Schardong	Custódio	Data Extraction Form									
REVIEW RESULT	EVALUATE RESULT	Paper ID	Title	Year	Authors	Published in	Add Concept	Remove Concept	Formal Model	Novel Problem	Proposed Solution
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	1	Active euthanasia and forgoing life-sustaining treatment: Can we hold the lir	1991	Jennings, Bruce	Journal of Pain and Symptom Mar					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	2	The Search for Self-Sovereignty: The Oratory of Elizabeth Cady Stanton.	1991	Miller, Page Putnam	Journal of American History					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	3	Book reviews	1991	Cooper, Martha and	Journal of Speech					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	4	Commentary on Nietzsche	2008	Nietzsche, Friedrich	Book: Self and Subjectivity					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	5	Understanding the forms of government in today's liberal and democratic sc	2009	Pestre, Dominique	Journal Minerva					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	6	Fear and the Illusion of Autonomy	2010	Frost, Samantha	Book: New Materialisms					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	7	Self-sovereignty and paternalism	2010	de Marneffe, Peter	Book: Paternalism Theory and Pra					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	8	Love and marriage among the ruins	2011	Reinsch, Richard M	Journal Perspectives on Political S					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	9	The paradox of John Stuart mill	2011	Kors, Alan Charles	Journal Social Philosophy and Po					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	10	Cultural nationalism and the formulation of the political: Reflections on the J	2012	Amiran, Revital	Journal Nationalism and Ethnic Po					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	11	Vice Laws and Self-Sovereignty	2013	de Marneffe, Peter	Journal Criminal Law and Philoso					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	12	Autonomy as self-sovereignty	2014	Trotter, Griffin	Journal HEC forum					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	13	Law's translation, imperial predilections and the endurance of the self	2014	Legrand, Pierre	Journal The Translator					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	14	Jacques-Louis David's Adieux : The Micropolitics of Sovereignty at the Bour	2016	Klausen, Jimmy Cas	Journal Law, Culture and the Hum					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	15	Jackie Chan's Indian play: immigration, Asianness, and the contracting self	2016	Cornellier, Bruno	Journal Settler Colonial Studies					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	16	Informed consent, body property, and self-sovereignty	2016	Rao, Radhika	Journal of Law, Medicine and Ethi					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	17	The inevitable rise of self-sovereign identity	2016	Tobin, Andrew and F	Technical Report: The Sovrin Fou					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	18	Towards Self-Sovereign Identity using Blockchain Technology	2016	Baars, Djuri	Master's Thesis					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	19	Fear and loathing in the academy? The role of emotion in response to an im	2017	Chubb, Jennifer and	Journal Higher Education Researc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	20	Private Data System Enabling Self-Sovereign Storage Managed by Executa	2017	Alboaie, Sinică and	International Conference on Distri					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	21	BC-PDS: Protecting Privacy and Self-Sovereignty through BlockChains for (	2017	Yan, Zhu and Gan, (	International Symposium on Servi					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	22	Self-Sovereign Identity framework and Blockchain	2017	Joosten, Rieks	Magazine: ERCIM NEWS					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	23	Philosophical sex	2017	Hillman, David	Book: Shakespeare's Hamlet: Phil					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	24	The death caf\'e movement: Exploring the horizons of mortality	2017	Fong, Jack	Book: The Death Café Movement					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	25	Legal sex, self-classification and gender self-determination	2017	Hutton, Christopher	Journal Law and Humanities					
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	26	Self-sovereign identity	2017	Abraham, Andreas	Technical Report: Styria. EGIZ. G	"The blockchain technology prov		No		
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	27	Self-Sovereign Identity using Smart Contracts on the Ethereum Blockchain	2017	Diebold, Zachary an	Master's Thesis	"Such a solution, in pursuit of this		No		
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	28	Portable Trust: biometric-based authentication and blockchain storage for s	2017	Hammudoglu, J S a	arXiv preprint					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	29	Self-sovereign Identity - Opportunities and Challenges for the Digital Revolu	2017	Der, Uwe and Jähni	arXiv preprint					
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	30	BLOCKCHAIN-ENABLED SELF-SOVEREIGN IDENTITY	2017	Van Wingerde, Man	Master's Thesis	"To gain a deeper understanding		No		
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	31	Blockchain in global trade	2018	Duan, Jack and Pat	International Conference on Block					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	32	Standing and the sources of liberalism	2018	Kolodny, Niko	Journal Politics, Philosophy & Eco					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	33	Towards decentralized accountability and self-sovereignty in healthcare sys	2018	Liang, Xueping and	International Conference on Inforr					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	34	A Quantifiable Trust Model for Blockchain-Based Identity Management	2018	Gruner, Andreas an	IEEE International Conference on			Yes	"Blockchain technology enat	"In this paper we propose a novel general quantifiable trust model and a specific impleme
Include (Satisfies both IC-1 and IC-2)	Include (Satisfies both IC-1 and IC-2)	35	Deployment of a Blockchain-Based Self-Sovereign Identity	2018	Stokkink, Quinten a	IEEE International Conference on	"This paper will add one further r		No	"claim structures which shou	"a claim model which satisfies these criteria"
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	36	Sora Identity: Secure, Digital Identity on the Blockchain	2018	Takemiya, Makoto a	IEEE 42nd Annual Computer Soft					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	37	Toward distributed key management for offline authentication	2018	Linklater, Gregory a	Conference of the South African Ir			No	"A self-sovereign identity mu	"This research describes how intermediate certificates may be used to enable key rotatio
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	38	A survey on essential components of a self-sovereign identity	2018	Mühle, Alexander ar	Journal Computer Science Reviev	"This paper's objective is to give		No		
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	39	Mastering Submission: Palestinian Poets Measuring Sounds of "Freedom"	2018	Furani, Khaled	Journal American Anthropologist					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	40	A New Approach to Client Onboarding Using Self-Sovereign Identity and Dis	2018	Soltani, Reza and T	IEEE International Conference on					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	41	The currency of Gottfried Lindauer's Māori portraits	2018	Turner, S	Journal RIHA					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	42	"THERE IS A PLACE WHERE TERROR IS GOOD"	2018	Kelly, Sean J	Journal of the Theoretical Humani					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	43	Blockchain technology the identity management and authentication service	2018	Lim, Shu Yun and F	International Journal on Advanced					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	44	Towards blockchain empowered trusted and accountable data sharing and (	2018	Liang, Xueping and	Journal EAI Endorsed Transaction					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	45	reclaimID: Secure, Self-Sovereign Identities Using Name Systems and Attril	2018	Schanzenbach, Mar	IEEE International Conference On			Yes	"how users can grant and re	"Revocation of access in reclaimID is used to prevent the decryption of an attribute record
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	46	Lavender latin americanism: Queer sovereignties in emily dickinson's south	2018	Meiners, Benjamin	Journal Emily Dickinson					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	47	Toward an Aesthetics of Self-Sovereignty: The Symbolic of Anti-Authoritaria	2018	Lyamlahy	Journal Research in African Litera					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	48	Tactical networking: Yugoslav performing and visual arts between East and	2018	Šuvaković, Miško	Chapter in Book: Performance Art					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	49	Migrations, Identities and Democratic Practices in India	2018	Das, Samir Kumar	Chapter in Book: Migrations, Ident					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	50	Architecture for self-sovereign digital identity	2018	Toth, Kalman C and	International Conference on Comp					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	51	Federation of Attribute Providers for User Self-Sovereign Identity	2018	Coelho, Pedro and Z	Journal of Information Systems Er					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	52	Self-Sovereign Identity Systems for Humanitarian Interventions A Case Stuc	2018	Stevens, Lars	Master's Thesis					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	53	An Integration Architecture to Enable Service Providers for Self-sovereign Ic	2019	Gruener, Andreas a	International Symposium on Netw			No	"Numerous implementations	"We propose a component-based architecture for integrating self-sovereign identity soluti
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	54	Analysis and Evaluation of Blockchain-based Self-Sovereign Identity Syster	2019	Schäffner, Martin	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	55	Edge computing: Smart identity wallet based architecture and user centric	2019	Sahmim, Syrine and	Journal Procedia Computer Scien					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	56	A Decentralized Way to Store and Authenticate Educational Documents on	2019	Shrivastava, Ajay K	International Conference on Issue					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	57	Using Probabilistic Attribute Aggregation for Increasing Trust in Attribute Ass	2019	Gruner, Andreas an	Symposium Series on Computatic			Yes	"1) Reducing the dependenc	"We propose an attribute aggregation model that combines the same attribute offered by
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	58	SelfIs: Self-sovereign biometric IDs	2019	Bathen, Luis and Flo	Computer Society Conference on			No	"One of the biggest issues w	"Introduced the concept of Self-Sovereign Biometric IDs (SelfIs), which are cancelable bi
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	59	Blockchain-Based Identity Management: A Survey From the Enterprise and	2019	Kuperberg, Michael	Journal IEEE Transactions on Eng					
Include (Satisfies both IC-1 and IC-2)	Include (Satisfies both IC-1 and IC-2)	60	In Search of Self-Sovereign Identity Leveraging Blockchain Technology	2019	Ferdous, Md Sadek	Journal IEEE Access	availability		Yes	"There are a few works in the	"This paper aims to achieve this goal by providing the first-ever formal and rigorous treatr
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	61	Still Working on Psyche's Last Task: A Second-Wave Feminist Looks Back (	2019	Roberts, Susan C.	Journal Psychological Perspective					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	62	Self-Sovereign Identity for IoT Devices	2019	Kulabukhova, Natali	International Conference on Comp					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	63	Analysis of identity management systems using blockchain technology	2019	Haddouti, Samia El	International Conference on Adva					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	64	Using Biometrics to Fight Credential Fraud	2019	Hardman, Daniel an	Journal IEEE Communications Sta					
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	65	Self-Sovereign Digital Identity: A Paradigm Shift for Identity	2019	Toth, Kalman C. and	Journal IEEE Security and Privacy	"we validate nine properties of se	"we conclude that existence, trar	No		
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	66	Practical key recovery model for self-sovereign identity based digital wallets	2019	Soltani, Reza and N	International Conference on Depe			No	"designing secure, practical a	"This paper provides a practical key backup and recovery protocol based on threshold se
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	67	Blockchain-Based Decentralized Accountability and Self-Sovereignty in Hea	2019	Shetty, Sachin and I	Chapter in Book: Business Transf					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	68	Full-text Search for Verifiable Credential Metadata on Distributed Ledgers	2019	Lux, Zoltan Andras a	International Conference on Interr			No	"no efficient full-text search r	"we propose a full-text search framework based on the publicly available metadata on the
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	69	Privacy-Preserving Solutions for Blockchain: Review and Challenges	2019	Bernal Bernabe, Jo	Journal IEEE Access					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	70	Ownership and Possession in Chapter 89, ``Fast-Fish and Loose-Fish\"\ by	2019	Derail, Agnes	Journal REVUE FRANCAISE D E					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	71	Self-sovereign Management of Privacy Consensus using Blockchain	2019	Buccafurri, France	International Conference on Web					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	72	DNS-IdM: A blockchain identity management system to secure personal dat	2019	Kassem, Jamila Als	Journal Applied Sciences					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	73	Trust, reputation and ambiguous freedoms: financial institutions and subver	2019	Faria, Inês	Journal of Cultural Economy					
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	74	Self-Sovereign Identity Systems Opportunities and challenges	2019	Ellingsen, Jørgen	Master's Thesis	"The definition in this paper uses	"without Existence"	No		
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	75	Zero-knowledge proof in self-sovereign identity	2019	Kulabukhova, N V	Workshop Proceedings CEUR					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	76	Pistis, a credentials management system based on self-sovereign identity	2019	TAGLIA, ANDREA a	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	77	GDPR and PSD2 : Self-Sovereign Identity, Privacy, and Innovation	2019	Swanson, Nick	Chapter in Book: The RegTech Bo					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	78	Designing the future identity: authentication and authorization through self-s	2019	Gerard, Valentin	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	79	Decentralized Identity Management Systems and Self-Sovereign Identity	2019	Strindberg, J M	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	80	Self-Sovereign Identity : A Comparison of IRMA and Sovrin	2019	Nauta, Jelle C and J	Technical Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	81	Self-Sovereign Identity Solutions: The Necessity of Blockchain Technology	2019	van Bokkem, Dirk a	arXiv preprint					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	82	SIMS: Self-Sovereign Identity Management System with Preserving Privacy	2019	Lee, Jeonghyuk and	IACR Cryptology ePrint Archive			Yes	"Though Encrypting data and	"To provide integrity and privacy of user information simultaneously in the blockchain, we
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	83	encointer -- An Ecological, Egalitarian and Private Cryptocurrency and Self-	2019	Brenzikofer, Alain	arXiv preprint					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	84	Design pattern as a service for blockchain applications	2019	Lu, Qinghua and Xu	International Conference on Data					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	85	EverSSDI: Blockchain-based framework for verification, authorisation and re	2019	Zhou, Tong and Li, X	Journal of Computer Applications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	86	Self-Sovereign Identity: Use-cases, Technologies, and Challenges for Indus	2019	Bartolomeu, Paulo (	International Conference on Emer					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	87	Decentralized Identity: Where Did It Come from and Where Is It Going?	2019	Avellaneda, Oscar a	Journal IEEE Communications Sta					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	88	Building Blocks: Conceptualizing the True Socio-Political Potential in Blockc	2019	Smye, Jack	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	89	How to build a self-sovereign identity system that is beneficial to both the in	2019	Moodley, Jothi	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	90	Self-Sovereign Identity in Digitalized Border Security	2019	Hannigan, Paul Ste	Master's Thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	91	Towards a Blockchain-based Identity and Trust Management Framework for	2020	Theodouli, Anastasi	Global Internet of Things Summit					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	92	An SSI Based System for Incentivized and Self-Determined Customer-to-Bu	2020	Wittek, Kevin and La	European Technology and Engine					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	93	A Survey on Blockchain-Based Self-Sovereign Patient Identity in Healthcare	2020	Houtan, Bahar and	Journal IEEE Access					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	94	An Information-Centric Networking Based Registry for Decentralized Identifi	2020	Alzahrani, Bander	Journal IEEE Access					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	95	Data governance: Organizing data for trustworthy Artificial Intelligence	2020	Janssen, Marijn and	Journal Government Information (					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	96	Self-sovereign identity on public blockchains and the GDPR	2020	Kondova, Galia and	Proceedings of the ACM Symposi					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	97	Data protection compliance challenges for self-sovereign identity	2020	Giannopoulou, Alex	International Congress on Blockch					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	98	Privacy Implication and Technical Requirements Toward GDPR Compliance	2020	Huang, Ching-Chun	Proceedings of the Future Techno					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	99	SSI-AWARE: Self-sovereign Identity Authenticated Backup with Auditing by	2020	Jakubeit, Philipp and	International Conference on Inforr			Yes	"The user himself is therefore	"We show that prior work on how to backup and restore the user's identity data does not
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	100	Self-sovereign identity systems: Evaluation framework	2020	Satybaldy, Abylay a	International Summer School on P	"We decided to add the "Usabilit		No		
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	101	Blockchain-based identity management systems: A review	2020	Liu, Yang and He, D	Journal of Network and Computer					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	102	BBM: A Blockchain-Based Model for Open Banking via Self-sovereign Ident	2020	Dong, Chengzu and	International Conference on Block					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	103	Towards a Trusted Support Platform for the Job Placement Task	2020	Dubovitskaya, Alevt	European Conference on Parallel					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	104	Privacy-Preserving eID Derivation for Self-Sovereign Identity Systems	2020	Abraham, Andreas a	International Conference on Inforr			Yes	"to derive qualified eIDs, issu	"we present a decentralized eID derivation concept that preserves the users' privacy whil
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	105	Design and Development of Self-sovereign Identity Using Ethereum Blockcl	2020	Chavan, Amrita B. a	International Conference on Susta					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	106	A Protocol for Decentralized Biometric-Based Self-Sovereign Identity Ecosy	2020	Othman, Asem and	Chapter in Book: Securing Social					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	107	Design Pattern as a Service for Blockchain-Based Self-Sovereign Identity	2020	Liu, Yue and Lu, Qir	Journal IEEE Software			No	"there is a lack of systematic	"We collect and propose 12 design patterns for blockchain-based self-sovereign identity s
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	108	RAIAP: renewable authentication on isolated anonymous profiles: A GDPR	2020	Pedrosa, Micael and	Journal Peer-to-Peer Networking a					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	109	An Identity Management and Authentication Scheme Based on Redactable	2020	Xu, Jie and Xue, Ka	Journal IEEE Transactions on Veh			Yes	"To defend illegal use of netv	"We provide an efficient and fine-grained dynamic user revocation method by utilizing the
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	110	Vaultpoint: A blockchain-based SSI model that complies with OAuth 2.0	2020	Hong, Seongho and	Journal Electronics			No	"low compatibility and inconv	"SSI model that complies with the popular and mature standard of OAuth 2.0."
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	111	Self-Sovereign Identity in a Globalized World: Credentials-Based Identity Sy	2020	Wang, Fennie and D	Journal Frontiers in Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	112	Digital Identity and the Blockchain: Universal Identity Management and the (	2020	Zwitter, Andrej J. an	Journal Frontiers in Blockchain					
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	113	Self-Sovereign Identity: Proving Power over Legal Entities	2020	Speelman, Tim	Master's Thesis	"First, the ground values of indep		No		
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	114	Towards a Modelling Framework for Self-Sovereign Identity Systems	2020	Barclay, Iain and Fr	arXiv preprint			No	How to model SSI systems (	"This paper draws upon research from Actor-based Modelling to guide a way forward in m
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	115	A Truly Self-Sovereign Identity System	2020	Stokkink, Quinten a	arXiv preprint					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	116	Self Sovereign Digital Identity on the Blockchain: A Discourse Analysis	2020	Kibaroğlu, Onat	Journal Financial Markets, Institut					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	117	A Secure Decision-Support Scheme for Self-Sovereign Identity Managemer	2020	Wohlgemuth, Sven a	Symposium on Cryptography and			No	"A machine cannot decide by	"Our contribution is the secure decision-support scheme SK4SC about reputation of users
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	118	Distributed, Secure, Self-Sovereign Identity for IoT Devices	2020	Gebresilassie, Sam	Research Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	119	A study on DID self-sovereign identity for digital content management.	2020	Baek and YeongTae	Korean Society of Computer Infor					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	120	Online Privacy-Self-Sovereign Identity	2020	Security, K Sunda	Journal of Information System Se					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	121	Certifying Provenance of Scientific Datasets with Self-sovereign Identity and	2020	Barclay, Iain and Ra	arXiv preprint					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	122	Distributed Ledger Technologies, Value Accounting, and the Self Sovereign	2020	Manski, Sarah	Journal Frontiers in Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	123	Decentralized Identity and Trust Management Framework for Internet of Thi	2020	Luecking, Markus a	International Conference on Block					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	124	Self-sovereign and Decentralized identity as the future of identity managem	2020	Kubach, Michael an	Open Identity Summit					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	125	Identity Management on Blockchain - Privacy and Security Aspects	2020	Panait, Andreea-Ele	Proceedings of the Romanian Aca					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	126	Reputation Protocol for the Internet of Trust	2020	Calcaterra, Craig an	Journal Perspectives in Law, Busi					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	127	Group Delegated ID-Based Proxy Re-encryption for PHR	2020	Kim, Won-Bin and L	International Conference on Innov			Yes	"in an environment with data	"data owners form groups in advance. And the data owner encrypts the data in a form tha
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	128	Anti-Impunity Norm of the International Criminal Court: A Curse or Blessing	2020	Okpe, Samuel Okpe	Journal of Asian and African Studi					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	129	Self-Sovereign Identity for IoT environments: A Perspective	2020	Fedrecheski, Geova	Global Internet of Things Summit (					
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	130	Self-Sovereign Identity Specifications: Govern Your Identity Through Your D	2020	Naik, Nitin and Jenk	International Conference on Mobil	"Underlying these changing requ		No		
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	131	Rethinking Decentralised Identifiers and Verifiable Credentials for the Intern	2020	Mahalle, Parikshit N	Chapter in Book: Internet of Thing					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	132	Identity management using permissioned blockchain	2020	Gururaj, Prabhanjar	International Conference on Mains					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	133	Towards more foundational humanitarian Self-Sovereign Identity systems	2020	Bouwens, M F	Research Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	134	A Blockchain-enabled Architecture for IoMT Device Authentication	2020	Fotopoulos, F and M	2020 IEEE Eurasia Conference or					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	135	A comparative survey on blockchain based self sovereign identity system	2020	Kaneriya, Jayana ar	Proceedings of the 3rd Internation					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	136	A Self-Sovereign Identity Architecture Based on Blockchain and the Utilizati	2020	Ahmed, K.A.M. Kha	Proceedings of ICCES 2020 - 202					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	137	A Study on Strengthening Personal Information Sovereignty through Analys	2020	Lee, Jeong-Hyeon a	The Journal of Korea Institute of Ir					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	138	A Survey on Blockchain-based Identity Management and Decentralized Priv	2020	Gilani, Komal and B	2020 2nd Conference on Blockcha					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	139	Blockchain, Interoperability, and Self-Sovereign Identity: Trust Me, It's My D	2020	StClair, Jim and Ing	Blockchain in Healthcare Today					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	140	Blockchain-based electronic identification: Cross-country comparison of six	2020	Bazarhanova, Anar	27th European Conference on Inf					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	141	Blockchain-Based Solution for COVID-19 Digital Medical Passports and Imr	2020	Hasan, Haya R. and	IEEE ACCESS					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	142	Blockchain-based verifiable credential sharing with selective disclosure	2020	Mukta, Rahma and	Proceedings - 2020 IEEE 19th Int					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	143	Can blockchain technology facilitate the unbundling of higher education	2020	Sood, Ira and Pirkka	CSEDU 2020 - Proceedings of the					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	144	Cooperative Task Scheduling for Personal Identity Verification in Networked	2020	Inoue, Koki and Suz	Proceedings of the 32nd Internatic			Yes	"we deal with the scheduling	"we formulate a scheduling problem in the cooperative network as an integer linear progr
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	145	Decentralized identity systems: Architecture, challenges, solutions and futur	2020	Dib, Omar and Toun	Annals of Emerging Technologies					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	146	Designing an academic electronic identity management system for student	2020	Stasis, Antonios and	EUNIS 2020 Congress					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	147	Digital identities – self-sovereignty and blockchain are the keys to success	2020	Seifert, Ren{\'{e}}	Network Security					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	148	Distributed-Ledger-based Authentication with Decentralized Identifiers and \	2020	Lux, Zoltan Andras a	2020 2nd Conference on Blockcha			No	"Integrating the OpenID Con	"We have implemented a proof of concept decentralized OpenID Connect Provider by ma
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	149	Education 3.0: Blockchain-backed moocs	2020	Paraschiveanu, Virg	eLearning and Software for Educa					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	150	Enhancing the security and privacy of self-sovereign identities on hyperledg	2020	Bhattacharya, Mana	2020 International Symposium on			Yes	"This study examined certair	"the paper proposes the following enhancements: 1) A novel attribute sensitivity score mo
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	151	How Much Identity Management with Blockchain Would Have Saved Us? A	2020	{Nokhbeh Zaeem}, I	Lecture Notes in Business Informa					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	152	Introducing the concept of digital-agent signatures for human-robot-robot-hu	2020	Pfeiffer, Alexander a	Proceedings of the European Con					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	153	Is the user identity perception influenced by the blockchain technology?	2020	Panait, A -E.	2020 IEEE International Conferen					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	154	Pay as You Go: A Generic Crypto Tolling Architecture	2020	Bartolomeu, Paulo (	IEEE ACCESS					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	155	Privacy-Preserving and Scalable Data Access Control Based on Self-sovere	2020	Xiao, Min and Ma, Z	International Conference on Secu					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	156	Reliable Smart Contracts	2020	Pace, Gordon J. and	Lecture Notes in Computer Scienc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	157	Review of techniques for privacy-preserving blockchain systems	2020	Satybaldy, Abylay a	BSCI 2020 - Proceedings of the 2					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	158	Revocable and offline-verifiable self-sovereign identities	2020	Abraham, Andreas a	Proceedings - 2020 IEEE 19th Int			No	"verifiers require information	"Our concept introduces attestations of validity for a point in time, which are issued by the
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	159	Risk Analysis Methodology to Blockchain-based Solutions	2020	Ribeiro, Sergio Luis	2020 2nd Conference on Blockcha					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	160	SANS: Self-Sovereign Authentication for Network Slices	2020	Salleras, Xavier and	SECURITY AND COMMUNICATIO					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	161	Securing Emission Data of Smart Vehicles with Blockchain and Self-Sovere	2020	Terzi, Sofia and Sav	Proceedings - 2020 IEEE Internat					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	162	SELF SOVEREIGN IDENTITY BASED MUTUAL GUARDIANSHIP	2020	D{\"{u}}ndar, Yusuf a	Journal of Modern Technology and					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	163	Self-Sovereign Identity and Blockchain-Based Content Management	2020	Kurihara, Yusuke	IFIP Advances in Information and					

Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	164	Self-Sovereign Identity and User Control for Privacy-Preserving Contact Tra	2020	Song, Wenting and						
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	165	Self-sovereign identity as trusted root in knowledge based systems	2020	Kulabukhova, Natali	Lecture Notes in Computer Scienc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	166	Self-Sovereign Identity: The Harmonising of Digital Identity Solutions Throug	2020	Lim, Jonathan	ANU Journal of Law and Technolo					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	167	Self-Sovereignty for Refugees? The Contested Horizons of Digital Identity	2020	Cheesman, Margie	GEOPOLITICS					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	168	Sovereignty, privacy, and ethics in blockchain-based identity management s	2020	Ishmaev, Georgy	ETHICS AND INFORMATION TE(					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	169	SSIBAC: Self-sovereign identity based access control	2020	Belchior, Rafael and	Proceedings - 2020 IEEE 19th Inte					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	170	uPort Open-Source Identity Management System: An Assessment of Self-S	2020	Naik, Nitin and Jenk	2020 6TH IEEE INTERNATIONAL					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	171	Vision: A Critique of Immunity Passports and W3C Decentralized Identifiers	2020	Halpin, Harry	Lecture Notes in Computer Scienc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	172	Your Identity is Yours: Take Back Control of Your Identity Using GDPR Com	2020	Naik, Nitin and Jenk	Proceedings of 2020 7th IEEE Inte					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	173	A blockchain empowered and privacy preserving digital contact tracing platf	2021	Bandara, Eranga an	INFORMATION PROCESSING \&					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	174	A blockchain-based platform architecture for multimedia data management	2021	Liu, Yue and Lu, Qir	MULTIMEDIA TOOLS AND APPLI					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	175	A lightweight trust management infrastructure for self-sovereign identity	2021	Kubach, Michael an	Open Identity Summit 2021			No	"a major challenge that so fa	"the verifier defines in a Trust Policy one or multiple trusted authorities to accept for certai
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	176	A Private Key Recovery Scheme Using Partial Knowledge	2021	Singh, H.P. Har Pre	IFIP International Conference on I			No	"we explore the problem of s	"In PKRS, an individual is asked a set of questions, and the answers to those questions a
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	177	A proposed approach for Digital Identity management using Self Sovereign	2021	Lohar, Shailaja Nitin	INTERNATIONAL JOURNAL OF I					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	178	A self-sovereign identity management scheme using smart contracts	2021	Niu, Jianlin and Ren	MATEC Web of Conferences					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	179	A Subject-Centric Credential Management Method based on the Verifiable (	2021	Lim, Seungjoo and I	International Conference on Inforr			No	"A problem arises if the holde	"If a credential transfer is required, the subject encrypts the credential with the subject's p
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	180	Adapting the TPL trust policy language for a self-sovereign identity world	2021	Alber, Lukas and Mc	Open Identity Summit 2021			No	"how TPL can be adapted sc	"Our contribution is to show how this integration can be made without changing the synta:
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	181	An Accessible Interface Layer for Self-Sovereign Identity	2021	Lockwood, Mick	Frontiers in Blockchain			No	"in order to achieve sustaina	"This paper presents recent practice-led research designed to project current SSI prototy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	182	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain	2021	Shashank, M G and						
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	183	Analysis on the Privacy of DID Service Properties in the DID Document	2021	Kim, Kyung Hoon ai	International Conference on Inforr			No	"the risks of leaking sensitive	"First, serviceEndpoint attributes of the DID document should be invisible. If serviceEndpo
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	184	A-PoA: Anonymous Proof of Authorization for Decentralized Identity Manage	2021	Lauinger, J and Ern:	2021 IEEE International Conferen			Yes	"state-of-the-art SSIM based	"our work constructs a secure authentication protocol, called A-PoA, to provide decentrali
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	185	Attribute-Based Access Control(ABAC) with Decentralized Identifier in the B	2021	Kim, Beomseok and	International Conference on Inforr					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	186	Blockchain, Self-Sovereign Identity and Digital Credentials: Promise Versus	2021	Grech, Alex and Soc	Frontiers in Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	187	Blockchain-Based Decentralized Digital Self-Sovereign Identity Wallet for Sc	2021	Islam, Md Tarequl ai	Advances in Science, Technology					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	188	Blockchain-Enabled Decentralized Identify Management: The Case of Self-S	2021	Stockburger, Lukas	Blockchain: Research and Applica					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	189	Connect - Blockchain and Self-Sovereign Identity Empowered Contact Trac	2021	Bandara, Eranga an	Lecture Notes of the Institute for C					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	190	Decentralized Factoring for Self-Sovereign Identities	2021	Mohammadzadeh ,	Electronics					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	191	Decentralized, Self-Sovereign, Consortium: The Future of Digital Identity in	2021	Boysen, Andre	Frontiers in Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	192	Development of a Mobile, Self-Sovereign Identity Approach for Facility Birth	2021	Freytsis, Maria and	Frontiers in Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	193	Die datenschutzrechtlichen Aspekte der Self-Sovereign Identity	2021	Sury, Ursula	Informatik Spektrum					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	194	Digital ID generation and management framework using blockchain	2021	Banerjee, Suchira a	Advances in Intelligent Systems a					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	195	Exploring value propositions to drive Self-Sovereign Identity adoption	2021	Lockwood, Mick	Frontiers in Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	196	Identity of Things: Applying concepts from Self Sovereign Identity to IoT dev	2021	Weingaertner, Tim a	The Journal of The British Blockch					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	197	Immunity credentials using self-sovereign identity for combating COVID-19	2021	Shuaib, Mohammed	Materials Today: Proceedings					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	198	Jamaica, Covid-19 and Black freedom	2021	Thame, Maziki	CULTURAL DYNAMICS					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	199	NovidChain: Blockchain-based privacy-preserving platform for COVID-19 te	2021	Abid, Amal and Che	SOFTWARE-PRACTICE \& EXPE					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	200	On the Market for Self-Sovereign Identity: Structure and Stakeholders	2021	Kubach, Michael an						
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	201	Privacy-Preserving PayString Service	2021	de Cristo, F Scheidt	2021 IEEE International Conferen					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	202	Proven and Modern Approaches to Identity Management	2021	P{\"{o}}hn, Daniela a	Advances in Cybersecurity Manag					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	203	Rechained: Sybil-Resistant Distributed Identities for the Internet of Things a	2021	Bochem, Arne and L	SENSORS					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	204	Re-shaping the future of identity through user-owned verifiable credentials	2021	Lemmon, A	2021 IEEE International Conferen					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	205	Self-sovereign identity	2021	Giannopoulou, Alexa	Internet Policy Review					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	206	Self-Sovereign Identity als Grundlage für universell einsetzbare digitale Ider	2021	Ehrlich, Tobias and I	HMD Praxis der Wirtschaftsinform					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	207	Self-sovereign identity and forced migration: slippery terms and the refugee	2021	Cheesman, Margie a	Digital Identity, Virtual Borders and					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	208	Self-Sovereign Identity creation on Blockchain using Identity based Encrypti	2021	Kirupanithi, D.Nancy	2021 5th International Conference					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	209	Self-Sovereign Identity Ecosystems: Benefits and Challenges	2021	Laatikainen, Gabriel	12th Scandinavian Conference on					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	210	Self-sovereign identity for healthcare using blockchain	2021	Shuaib, Mohammed	Materials Today: Proceedings					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	211	Self-sovereign Identity framework development in compliance with Self sove	2021	Shuaib, Mohammed	International Journal of Modern Ag					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	212	Self-sovereign identity systems and European data protection regulations: a	2021	{Chomczyk Penedo}	GI-Edition					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	213	Study on DID Application Methods for Blockchain-Based Traffic Forensic Da	2021	Yoon, Cheolhee and	APPLIED SCIENCES-BASEL					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	214	Tax regulation on blockchain and cryptocurrency: The implications for open	2021	Pel{\'{a}}ez-Repiso,	Journal of Open Innovation: Techn					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	215	The Arms Trade Treaty: The Self, Sovereignty, and Arms Transfer Control	2021	Mimaki, Seiko	JOURNAL OF STRATEGIC STUD					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	216	The Feasibility and Significance of Employing Blockchain-Based Identity So	2021	Zhang, Peng and Ku	Smart Innovation, Systems and Te					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	217	Towards a trustful digital world: exploring self-sovereign identity ecosystems	2021	Laatikainen, Gabriel						
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	218	Towards Automated Data Sharing in Personal Data Stores	2021	Shanmugarasa, Yas	2021 IEEE International Conferen			No	"a greater burden on the use	"This research proposes a privacy preference recommender system for privacy-preservin
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	219	Trust Me If You Can: Trusted Transformation Between (JSON) Schemas to :	2021	More, Stefan and Gi						
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	220	Vulnerability Analysis of DID Document's Updating Process in the Decentral	2021	Rhie, Min Hyung an	International Conference on Inforr					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	221	With blockchain or not? Opportunities and challenges of self-sovereign iden	2021	Mahula, Stanislav a	DG.O2021: The 22nd Annual Inte					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	222	Adrian Gropper: How to become a privacy entrepreneur [Careers]	2021		IEEE Spectrum					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	223	Enabling self-verifiable mutable content items in IPFS using Decentralized I	2021	Nikos Fotiou;Vasilio	2021 IFIP Networking Conference					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	224	Securing Named Data Networking routing using	2021	Nikos Fotiou;Yannis	2021 IEEE 22nd International Cor					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	225	A Blockchain-aided Self-Sovereign Identity Framework for Edge-based UAV	2021	Chengzu Dong;Frar	2021 IEEE/ACM 21st Internationa					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	226	Safety Warning! Decentralised and Automated Incentives for Disqualified Dr	2021	Youshui Lu;Jingning	IEEE Transactions on Mobile Com					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	227	A Blockchain and Self-Sovereign Identity Empowered Digital Identity Platfor	2021	Eranga Bandara;Xu	2021 International Conference on					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	228	Disposable identities; enabling trust-by-design to build more sustainable dat	2021	Jari Isohanni;Lorna	2021 IEEE International Conferen					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	229	Addressing Audit and Accountability Issues in Self-Sovereign Identity Blockc	2021	Victoria Lemieux;Ar	2021 IEEE 45th Annual Computer			No	"SSI systems do not capture	"To achieve these objectives and to preserve privacy, we leverage archival principles to ir
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	230	Tutorial: Decentralized Digital Identity with Blockchain	2021	Daniel Alvarez Torre	2021 Eighth International Confere					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	231	DT-SSIM: A Decentralized Trustworthy Self-Sovereign Identity Management	2021	Efat Samir;Hongyi W	IEEE Internet of Things Journal			Yes	"Utilizing a local single-point-	"Storing IoT identity credentials outside the devices' local storage preserves the identity c
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	232	Efficient Certification of Endpoint Control on Blockchain	2021	Diego Pennino;Mau	IEEE Access					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	233	ATIB: Design and Evaluation of an Architecture for Brokered Self-Sovereign	2021	Andreas Grüner;Ale	IEEE Access			No	"Each SSI solution offers a d	"Our contribution, presented in this paper, comprises the design and evaluation of an arch
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	234	Decentralized and Self-Sovereign Identity: Systematic Mapping Study	2021	Špela Čučko;Muhar	IEEE Access					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	235	Decentralized Identifiers and Self-Sovereign Identity - A New Identity Manag	2021	Axel Küpper	2021 IEEE International Conferen					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	246	Exploring blockchain-based Self Sovereign Identity Systems: challenges an	2021	Bahya Nassr Eddine	2021 3rd Conference on Blockcha					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	247	Data Capsule: A Self-Contained Data Model as an Access Policy Enforceme	2021	Reza Soltani;Uyen T	2021 3rd Conference on Blockcha					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	248	Does Sovrin Network Offer Sovereign Identity?	2021	Nitin Naik;Paul Jenk	2021 IEEE International Symposiu					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	249	Sovrin Network for Decentralized Digital Identity: Analysing a Self-Sovereign	2021	Nitin Naik;Paul Jenk	2021 IEEE International Symposiu					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	250	Self-Sovereign Identity Management System on blockchain based applicatio	2021	D. Nancy Kirupanith	2021 2nd International Conferenc					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	251	Credentials as a Service Providing Self Sovereign Identity as a Cloud Servi	2021	Hira Siddiqui;Mujtab	2021 IEEE International Conferen			No	"One of the reasons for the l:	"To cater to this, we present a solution that enables the service providers to run their cred
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	252	Enabling Identity for the IoT-as-a-Service Business Model	2021	Santiago de Diego;(	IEEE Access					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	253	A Self-Sovereign Decentralized Identity Platform Based on Blockchain	2021	Ya Chen;Chao Liu;Y	2021 IEEE Symposium on Compu					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	254	Connecting Self-Sovereign Identity with Federated and User-centric Identitie	2021	Hakan Yildiz;Christo	2021 IEEE Symposium on Compu			No	"It allows identity subjects to	"We designed and implemented a solution that combines an existing federated identity ac
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	255	A privacy preserving identification protocol for smart contracts	2021	Francesco Bruschi;T	2021 IEEE Symposium on Compu					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	256	Hierarchical Deterministic protocol for the defragmentation of identity in a bl	2021	D. Nancy Kirupanith	2021 Fifth International Conferenc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	257	Clear the Fog: Towards a Taxonomy of Self-Sovereign Identity Ecosystem M	2021	Kaja Schmidt;Alexar	2021 18th International Conferenc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	258	An Anonymity and Interaction Supported Complaint Platform based on Bloc	2021	Mijanur Rahman;Mc	2021 International Conference on					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	259	A Blockchain based Human-to-Infrastructure Contact Tracing Approach for (	2021	Danxin Wang;Xianh	IEEE Internet of Things Journal					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	260	Self-Sovereign Identity and Blockchain applications for the automotive secto	2021	Marta Lucrezia Ales	2021 AEIT International Conferen					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	261	The major opportunities of Blockchain for Automotive Industry: a Review	2021	Lorenza Cotugno;Fr	2021 AEIT International Conferen					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	262	Self-Sovereign Identity for the Financial Sector: A Case Study of PayString S	2021	Flaviene Scheidt De	2021 IEEE International Conferen					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	263	An Attack Tree Based Risk Analysis Method for Investigating Attacks and Fa	2021	Nitin Naik;Paul Grac	2021 IEEE Symposium Series on			No	"However, this operational ch	"this paper proposes an attack tree based risk analysis method for investigating potential
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	264	Blockchain-based Platform for Secure Sharing and Validation of Vaccination	2021	Mwrwan Abubakar;F	2021 14th International Conferenc					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	265	Using Blockchain Technology for Software Identity Maintenance	2021	Andreea-Elena Drăg	22nd International Middleware Co					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	266	A Survey of Self-Sovereign Identity Ecosystem	2021	Clemente Galdi,Rez	Security and Communication Netw					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	267	Matching Metadata on Blockchain for Self-Sovereign Identity	2021	Frederico Schardon	BPM 2021: Business Process Mar			No	"the problem of schema matc	"Our solution uses pre-trained word vectors to find semantic similarities between user que
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	268	Blockchain-Based Healthcare Data Management: Current Practices and Op	2021	Galia Kondova	International Conference on Applic					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	269	Methods for Decentralized Identities: Evaluation and Insights	2021	Walid Fdhila, Nichol	BPM 2021: Business Process Mar					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	270	Verifiable Badging System for scientific data reproducibility	2021	Radha, Swapna Kris	Blockchain: Research and Applica					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	271	Designing a Framework for Digital KYC Processes Built on Blockchain-Base	2021	Schlatt, Vincent Sec	Information & Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	272	PyDentity: A playground for education and experimentation with the Hyperle	2021	Abramson, Will Pap	Software Impacts					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	273	Big tech, big data and the new world of digital health	2021	Jane Thomason	Global Health Journal					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	274	uTakeCare: unlock full decentralization of personal data for a respectful dec	2021	Amour, Lamine Quir	Data Science for COVID-19					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	275	Blockchain and self sovereign identity to support quality in the food supply c	2021	Cocco, L and Tonell	Future Internet					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	276	Socially private: Striking a balance between social media and data privacy	2021	Garcia, A A	Iowa Law Review					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	277	Eid and self-sovereign identity usage: An overview	2021	Pöhn, D., Grabatin,	Electronics					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	278	Digital Identities and Verifiable Credentials	2021	Sedlmeir, J., Smeth	Business & Information Systems E					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	279	Asset logging in the energy sector: a scalable blockchain-based data platfor	2021	Djamali, A., Dossow	Energy Informatics					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	280	The Treachery of Images in the Digital Sovereignty Debate	2021	Ruohonen, J	Minds and Machines					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	281	Modbus access control system based on SSI over hyperledger fabric blockc	2021	Figueroa-Lorenzo, S	Sensors					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	282	Decentralizing identity management and vehicle rights delegation through s	2021	Terzi, S., Savvaidis,	IEEE 45th Annual Computers, Sof					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	283	Swarm Communication using Self Sovereign Identities	2021	Ursache, N.-C.	RoEduNet IEEE International Con					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	284	Decentralized identities for self-sovereign end-users (DISSENS)	2021	Schanzenbach, M.,	Series of the Gesellschaft fur Infor					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	285	Verifiable credential proof generation and verification model for decentralize	2021	Cho, K. W., Jeong, I	IEICE Transactions on Informatior			Yes	"the verifiable credential (VC	"This paper proposes a model for VC generation and revocation verification for credit sco
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	286	Cloud to cloud data migration using self sovereign identity for 5G and beyor	2021	Aruna, M. G., Hasar	Cluster Computing					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	287	Applying assurance levels when issuing and verifying credentials using Trus	2021	Jurado, V. M., Vila, X	Gesellschaft fur Informatik (GI)			No	"Technical interoperability of	"We present an approach incorporating different levels of assurance and trust domains in
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	288	Studying Bitcoin Privacy Attacks and Their Impact on Bitcoin-Based Identity	2021	Ghesmati, S., Fdhila	Business Information Processing					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	289	Promize - Blockchain and Self Sovereign Identity Empowered Mobile ATM F	2021	Bandara, E., Liang,	Networks and Systems					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	290	SSI strong authentication using a mobile-phone based identity wallet reachi	2021	Abraham, A., Schinr	18th International Conference on S			Yes	"the recent self-sovereign ide	"This work tackles this problem by starting with assessing related LoA standards"
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	291	Identity and access management using distributed ledger technology: A surv	2021	Ghaffari, F., Gilani, K	International Journal of Network M					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	292	Integration of Self Sovereign Identity in Security Systems	2021	Adane, P., Jadhav, A	INTERNATIONAL JOURNAL OF I					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	293	Sovrin: An Identity Metasystem for Self-Sovereign Identity	2021	Windley, Phillip J	FRONTIERS IN BLOCKCHAIN					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	294	3 Stages of a Pan-African Identity Framework for Establishing Self-Sovereig	2021	Darnell, S. S., & Sev	FRONTIERS IN BLOCKCHAIN					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	295	DIGITAL IDENTITY AS THE FOUNDATION OF DEVELOPMENT OF DIGITA	2021	Holik, Z., & Turkalj,	INTERDISCIPLINARY MANAGEM					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	296	Evaluating Trust Assurance in Indy-Based Identity Networks Using Public Le	2021	Will Abramson, Nick	frontiers in Blockchain			No	"verifier attempting to assess	"This paper suggests Indy transaction data can provide insights into the question of prove
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	297	Having Our "Omic" Cake and Eating It Too?: Evaluating User Response to U	2021	Lemieux, V. L., Hofm	FRONTIERS IN BLOCKCHAIN					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	298	Self-Sovereign Identity for the Internet of Things: A Case Study on Verifiable	2021	Filipe Alexandre Ros	Master thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	299	zkKYC: A solution concept for KYC without knowing your customer, leveragi	2021	Pieter Pauwels	eprint					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	300	Self-sovereign Identity: Development of an Implementation-based Evaluatio	2021	Philipp Bolte	Master thesis					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	301	A low-overhead approach for self-sovereign identity in IoT	2021	Fedrecheski, G., Co	Arxiv			No	"One of the challenges for D	"In this work we propose a set of extensions and optimizations to reduce the overhead of
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	302	A Universal Framework for Claim Portability in Self-Sovereign Identity Applic	2021	Steenbergen, M	Master thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	303	Alastria Blockchain Ecosystem: security and privacy in Self-Sovereign Ident	2021	Víctor, A. :, & Sánch	Bachelor thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	304	An analysis on Peer-to-Peer communication mechanism based on self-sove	2021	Gyu-Hyun Choi, Ge	ACK 2021					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	305	An Identity Asset Sensitivity Model in Self-Sovereign Identities	2021	Chih, K., Razieh, C.	Research Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	306	Blockchain-Based Self-Sovereign Identity: Survey, Requirements, Use-Case	2021	Nokhbeh, R., Kai, Z	Research Report					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	307	Credential-based Trust Management in Self Sovereign Identity	2021	Mukta, R., Paik, H.-Y	8th ACM Celebration of Women in			No	"in current SSI solutions, cre	"Our work aims to establish an effective governance framework for personal issuers by in
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	308	Cryptographic Implementation of Issuer Policy for Self Sovereign Identity Sy	2021	Karthikeyan, N. A.	Master thesis			No	"The problem here is that the	"Various potential solutions are suggested and from those solutions, Ciphertext Policy Att
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	309	Decentralized Identifiers and Self-sovereign Identity in 6G	2021	Garzon, S. R., Yildiz	Arxiv					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	310	Determinants of Behavioral Intention to Use a Self-Sovereign Identity Digita	2021	Lemoie, K	PhD Thesis					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	311	Ethical Design of Digital Identity Environmental Implications from the Self-Sc	2021	Glastra, S	Master thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	312	Exploring Potential Impacts of Self-Sovereign Identity on Smart Service Sys	2021	Richter, D., & Anke,	Business Information Systems					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	313	Guardianship and self-sovereign identity: implications for persons living with	2021	Neubauer, N	Research Report					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the area	314	Improving Anonymous Whistleblower Credibility with Self-Sovereign Identity	2021	Jacob Young	Dewald Roode Information Securi					
Include (Satisfies both IC-1 and IC-2)	Include (Satisfies both IC-1 and IC-2)	315	Industry-Grade Self-Sovereign Identity: On the Realisation of a Fully Distribu	2021	Chotkan, R	Master thesis	"verifiability: a property not explic			"Proposed revocation mecha	"This research addresses these issues and proposes the first fully distributed revocation r
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	316	Introducing Self-Sovereign Identity and Identity as Collateral in Decentralize	2021	Kroon, H	Bachelor thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	317	On the Usability of Self Sovereign Identity Solutions	2021	Nokhbeh, R., Manal	Research Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	318	Privacy, Self-Sovereign Identity Technology and the Willingness to Provide I	2021	Hendricks, Matthew	master thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	319	Scalable Self-Sovereign Identity Architecture	2021	Mišić, J., Misic, V., &	Research Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	320	Self-sovereign identity as a tool for digital democracy	2021	Centonze, R., & Rea	research Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	321	Self-Sovereign Identity for Internet of Things devices	2021	Antonio Santoro	master thesis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	322	Self-Sovereign Identity: A Primer and Call for Research in Information Syste	2021	Mišić, J., Misic, V., &	Pre-ICIS Workshop on Informatior					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	323	Towards Data Resilience for Fully Distributed Self-Sovereign Identity Manag	2021	Kostadinov, K	Bachelor thesis				"Nonetheless, currently depl	"We achieve data resilience through identity backups"
Include (Satisfies IC-1 The paper includes a novel cor	Include (Satisfies IC-1 The paper includes a novel	324	Towards the classification of Self-Sovereign Identity properties	2021	Čučko, Š., Bećirović	Arxiv	Decentralization,				

Schardong	Custódio	Data Extraction Form									
REVIEW RESULT	EVALUATE RESULT	Patent ID	Title	Year	Authors	Add Concept	Remove Concept	Formal Model	Novel Problem	Proposed Solution
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	WO-2021021373-A1	Self-sovereign identity systems and methods for identification documents	2020	Sanjay Gupta, Michael Ra					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	KR-20210073810-A	The block chain system including a block chain structure for data self-sovereign identity	2019	지승학					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	US-20193708 47-A1	Method and systems relating to the use of blockchain and self-sovereign identity for gift cards, rewards, and incentives programs	2019	Sai Khan					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	US-10706070-B2	System and method for utilizing connected devices to enable secure and anonymous electronic interaction in a decentralized manner	2018	Jay Fallah, Scott Rankine,					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	US-20200366493-A1	Distributed self sovereign identities for network function virtualization	2018	Kapil Sood, Ned M. Smith					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	WO-2021125588-A1	Content wallet device and self-sovereign identity and copyright authentication system using same	2020	권오경			No	sensitive data storage and ke	Details a hardware-based wallet that generates passwords and user IDs (using DID), allo
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	KR-20200115724-A	Method for user authentication having enhanced reliability and security	2018	홍성우					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	WO-2021005574-A1	Method and system for reliable authentication of the origin of a website	2020	Marco António CASTELÃ					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	WO2021064182A1	Computer-implemented transaction system and method	2019	Kailali Mustafa, Sezer Sak			No	perform user authentication	Details a user authentication scheme based solely on user interactions with its personal d
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	WO2021130341A1	Computer implemented blockchain-based system for agricultural products	2021	David BEHRENDSDiana H					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	WO2021229454A1	Cross-network identity provisioning	2021	Petr NovotnyTimothy Chac					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	EP3863204A1	System and method for secure generation, exchange and management of a user identity data using a blockchain	2021	Alexandru LUPASCUAug					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	US20210314293A1	Method and system for using tunnel extensible authentication protocol (teap) for self-sovereign identity based authentication	2021	Abilash SoundararajanTim					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	GB2601156A	Self sovereign identity	2021	O'sullivan Kevin					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	US11339978B2	System and method, which using blockchain and mobile devices, provides the validated and authenticated identity of an individual to a ve	2021	Sai Khan					

First Iteration - Backwards Snowballing

Researchers Evaluation		Data Extraction Form											
Schardong	Custódio	From ID	Paper ID	Duplicate of	Title	Year	Authors	Published in	Add Concept	Remove Concept	Formal Model	Novel Problem	Proposed Solution
REVIEW RESULT	EVALUATE RESULT												
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1		Bitcoin: A Peer-to-Peer Electronic Cash System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.2		TECHNOLOGIEÜBERBLICK BLOCKCHAIN								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.3		How China Took Center Stage in Bitcoin's Civil War - The New York Times								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.4		The Technical Foundations of Sovrin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.5		Blockstack: A Global Naming and Storage System Secured by Blockchains								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.6		Bootstrapping Trust in Distributed Systems with Blockchains								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.7		MultiChain Private Blockchain - White Paper								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.8		The Origins of Smart Contracts								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.9		Uport: A platform for self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.10		Nick Szabo - Smart Contracts: Building Blocks for Digital Markets								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.11		DID (Decentralized Identifier) Data Model and Generic Syntax 1.0 Implementer's Draft 01 A Draft from Rebooting the Web of Trust III Design Worl								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.12		External key management | MultiChain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.13		General Data Protection Regulation								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	27	27.1		Self, social identity and psychological well-being								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	27	27.2		The Economics of Financial and Medical Identity Theft								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.3		Usability Challenges of PKI								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.4		Its Me, and Heres My Proof: Why Identity and Authentication Must Remain Distinct								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.5		System Security - Something You Know, Have, or Are								
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Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	27	27.7		FCA fines Deutsche Bank 163 million for serious anti-money laundering controls failings								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.8		The Path to Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.9		EU GDPR								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.10		ID2020								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.11		Distributed Identity: Yadis								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.12		OpenID: The Web's Most Successful Failure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.13		SAML Specifications | SAML XML.org								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.14		An Updated Look At Choosing Between OAuth2 and SAML								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.15		The OAuth 1.0 Protocol								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.16		Office 365 Vulnerability Exposed Any Federated Account								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.17		Serious security flaw in OAuth, OpenID discovered								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.18		New Directions in Cryptography								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.19		A method for obtaining digital signatures and public-key cryptosystems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.20		Hacking in the Netherlands Took Aim at Internet Giants								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.21		Misissued/Suspicious Symantec Certificate								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.22		An Internet Attribute Certificate Profile for Authorization								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.23		The GNU Privacy Handbook								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.24		The Keysigning Party HOWTO								
		27	27.25	26.1	Bitcoin: A peer-to-peer electronic cash system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.26		Quantitative Analysis of the Full Bitcoin Transaction Graph								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.27		An Analysis of Anonymity in the Bitcoin System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.28		Distributed Double Spending Prevention								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.29		Ethereum: A Next-Generation Smart Contract and Decentralized Application Platform								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.30		IPFS - Content Addressed, Versioned, P2p File System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.31		Filecoin: A Cryptocurrency Operated File Storage Network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.32		Swarm - Incentivised Peer-to-Peer Storage and Content Distribution								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.33		IPFS & SWARM Comparison								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.34		Blockstack: A New Decentralized Internet								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.35		Extending existing blockchains with virtualchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.36		The 3 Reasons Why Onename Switched from Namecoin to Bitcoin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.37		Introducing Blockchain ID, Your Digital Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.38		Estonian e-Residency								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.39		Identit.ee - Innovating e-Residency and Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.40		Estonia E-residency Program & Bitnation Dao Public Notary Partnership								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.41		Identity System Essentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.42		Sovrin - Frequently Asked Questions								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.43		ShoCard: Travel Identity for the Future								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.44		Response: uPort Centralisation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.45		MIT PGP Key Server								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.46		Key Management - Microsoft TechNet								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.47		Key Revocation - PGP								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.48		Technical Introduction to Events and Logs in Ethereum								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.49		Web3.js - Ethereum Javascript API								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.50		Ethereum JSON RPC API								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.51		INFURA :: Ethereum Blockchain Infrastructure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.52		ethereumjs-tx - A simple module for creating, manipulating and signing ethereum transactions								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.53		ethereumjs-util - A collection of utility functions for Ethereum								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.54		MetaMask - Brings Ethereum to your browser.								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.55		testrpc - Fast Ethereum RPC client for testing and development								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.56		Whisper Protocol - Ethereum Wiki								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.57		BIP-0039 - Mnemonic code for generating deterministic keys								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.58		BIP-0032 - Hierarchical Deterministic Wallets								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.59		Secure Multiparty Computations on Bitcoin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.60		Threshold cryptography								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.61		Is there a cost to privacy breaches? An event study,								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.62		Replay Attacks - Microsoft Developer Network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.63		How can a contract run itself at a later time?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.64		The Sybil Attack								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.65		Byzantine consensus suitable for decentralized networks using cryptographic randomness								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.66		A survey of trust and reputation systems for online service provision								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.67		Does uPort require Ether? | uPort Support								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.68		EIP0074 - Support RSA signature verificatio								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.1		SCPKI: A smart contract-based PKI and identity system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.2		Identity Management Systems Research: Frameworks, Emergemce, and Future Opportunities								
		30	30.3	27.8	Self-Sovereign Identity Principles								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.4		Formal Analysis of SAML 2.0 Web Browser Single Sign-on: Breaking the SAML-based Single Sign-on for Google Apps								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.5		A survey of attacks on Ethereum smart contracts (SoK)								
		30	30.6	18	Towards Self-Sovereign Identity using Blockchain Technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.7		A Guide to Claims-Based Identity and Access Control: Patterns & Practices								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.8		Understanding Blockchain Consensus Models. Persistant Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.9		On distributed communications networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.10		Identity Management: Concepts, Technologies, and Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.11		Sovrin Provisional Trust Framework								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.12		Putting "identity" on the "blockchain"								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.13		On Public and Private Blockchains - Ethereum Blog								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.14		Blockchains and Privacy through Strong Cryptography								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.15		Casper the Friendly Finality Gadget								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.16		Digital Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.17		Non-functional requirements in software engineering								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.18		Implementation Act 2015/1502, 235								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.19		eIDAS as guideline for the development of a pan European eID framework in FutureID								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.20		1 Billion Yahoo Accounts Compromised in Data Breach | IdentityForce®								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.21		The eIDAS regulation | What does eIDAS mean for you? - Signable								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.22		Understanding the Blockchain Using Enterprise Ontology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.23		The Seven Flaws of Identity Management: Usability and Security Challenges								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.24		SHA-3 Standard: Permutation-Based Hash and Extendable-Output Functions								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.26		Final report on the draft RTS on SCA and CSC under PSD2								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.27		Directive 2015/2366 (Payment Service Directive 2)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.28		Electronic identification and trust services for electronic transactions in the internal market (2015)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.29		Regulation 2016/679 of the European parliament and the Council of the European Union								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.30		Revised rules for payment services in the EU								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.31		What's the Difference Between Advanced and Qualified Signatures in eIDAS?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.32		DRAFT NIST Special Publication 800-63a Digital Identity Guidelines: enrollment and proofing								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.33		A Decentralized Public Key Infrastructure with Identity Retention								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.34		Interactive Proof Systems Definitions. Society for Industrial and Applied Mathematics								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.35		Special Publication 800-63b Digital Identity Guidelines								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.36		Blockchain Opportunity Contents								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.37		Proof of Stake FAQ								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.38		Identity as an emerging field of study								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.39		CISSP Exam Guide								
		30	30.40	26.9	uPort: a Platform for Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.41		A Three Cycle View of Design Science Research								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.42		Global Internet Usage								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.43		NGN identity management framework								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.44		Engineering information security: the application of systems engineering concepts to achieve information assurance								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.45		The Elliptic Curve Digital Signature Algorithm (ECDSA)								
		30	30.46	22	Self-Sovereign Identity Framework and Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.47		User centric identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.48		Goal-Oriented Requirements Engineering : An Overview of the Current Research								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.49		Digital Identity Management. Architecting User-Centric Privacy-as-a-Set-of-Services								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.50		Reasoning about partial goal satisfaction for requirements and design engineering								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.51		Making Smart Contracts Smarter								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.52		The venn of identity: Options and issues in federated identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.53		Distributed ledger technology in payments, clearing, and settlement								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.54		The Business Blockchain: Promise, Practice, and Application of the Next Internet Technology								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	30	30.55		The qualitative interview in IS research: Examining the craft								
		30	30.56	26.1	Bitcoin: A Peer-to-Peer Electronic Cash System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.57		Myths and fallacies of "personally identifiable information."								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.58		Systems development in information systems research								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.59		Identity and Access Management: Business Performance Through Connected Intelligence								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.60		Top Trends in the Gartner Hype Cycle for Emerging Technologies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.61		Requirements Engineering: Dealing with the Complexity of Sociotechnical Systems Development								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.62		Identity Fraud: Securing the Connected Life | Javelin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.63		Anonymity, Unlinkability, Undetectability, Unobservability, Pseudonymity, and Identity Management–A Consolidated Proposal for Terminology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.64		Blockchain Technology: Principles and Applications								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.65		Reconciling PSD2 and GDPR								
		30	30.66	26.4	The Technical Foundations of Sovrin								
		30	30.67	27.19	A method for obtaining digital signatures and public-key cryptosystems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.68		Cryptographic Hash-Function Basics: Definitions, Implications, and Separations for Preimage Resistance, Second-Preimage Resistance, and Col								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.69		PGP Web of Trust: Core Concepts Behind Trusted Communication								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.70		GDPR: Data Controller v Data Processor								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.71		A walkthrough of Requirement Elicitation Techniques								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.72		General Data Protection Regulation (GDPR) for Identity Architects								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.73		Understanding General Data Protection Regulation (GDPR)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.74		A Self-Sovereign Identity Architecture								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.75		Blockchain: Blueprint for a new economy								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.76		Consensus-as-a-service: a brief report on the emergence of permissioned, distributed ledger systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.77		Formalizing and securing relationships on public networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.78		Sovrin: What Goes on the Ledger?								
		30	30.79	26.9	Uport: A platform for self-sovereign identity								
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	30	30.80		Verifiable Credentials Data Model	2017	Manu Sporny, Dave Lo	W3C			No	"Currently it is difficult to express educatio	"This specification provides a mechanism to express these
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.81		Who do you think you are? A review of the complex interplay between information systems, identification and identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.82		The 5 Causes of Identity and Access Management Failure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.83		A Blueprint for Digital Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	30.84		Comparison of Various Requirements Elicitation Techniques								
		34	34.1	26.1	Bitcoin: A Peer-to-Peer Electronic Cash System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.2		Blockchain: Hype oder Innovation								
		34	34.3	27.8	The Path to Self-Sovereign Identity								
		34	34.4	17	The Inevitable Rise of Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.5		An Identity Provider to manage Reliable Digital Identities for SOA and the Web								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.6		An attribute assurance framework to define and match trust in identity attributes								
		34	34.7	27.66	A Survey of Trust and Reputation Systems for Online Service Provision								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.8		A Taxonomy to Express Open Challenges in Trust and Reputation Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.9		A Survey on Security and Privacy Issues of Bitcoin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.10		Attacks Against Peer-to-peer Networks and Countermeasures								
		34	34.11	27.64	The Sybil Attack								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.12		The EigenTrust Algorithm for Reputation Management in P2P Networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.13		Analysis of the strong set in the PGP web of trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.14		New Metrics for Reputation Management in P2P Networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.15		Spreading Activation Models for Trust Propagation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.16		TrustMe: Anonymous Management of Trust Relationships in Decentralized P2P Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.17		Enhancing Claim-Based Identity Management by Adding a Credibility Level to the Notion of Claims								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.18		A Hybrid Trust Model for Authorisation Using Trusted Platforms								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.19		AttributeTrust - a Framework for Evaluating Trust in Aggregated Attributes via a Reputation System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1		Why i wrote pgp. PGP User's Guide								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.2		Why johnny can't encrypt: A usability evaluation of pgp 5.0								
		35	35.3	30.5	A survey of attacks on ethereum smart contracts (sok)								
		35	35.4	27.8	The path to self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.5		Decentralizing privacy: Using blockchain to protect personal data								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.6		Trustchain: A sybil-resistant scalable blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.7		The tangle								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.8		Free-riding and whitewashing in peer-to-peer systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.9		Who am i? secure identity registration on distributed ledgers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.10		Proofs that yield nothing but their validity and a methodology of cryptographic protocol design								

Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.11		An efficient range proof scheme								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.12		zk-snark explained: Basic principles								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.13		Bulletproofs: Efficient range proofs for confidential transactions								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.14		Enigma: Decentralized computation platform with guaranteed privacy								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.15		Claimchain: Decentralized public key infrastructure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.16		Dispersy bundle synchronization								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.17		Tribler: a social-based peer-to-peer system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.18		Evaluating 2-dnf formulas on ciphertexts								
		35	35.19	30	Blockchain-enabled self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.20		Hidden in plain sight: Storing and managing secrets on a public ledger								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.1		The Risks ofKey Recovery, Key Escrow, and Trusted Third-Party Encryption								
		37	37.2	27.8	The Path to Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.3		Decentralized Public Key Infrastructure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.4		A Framework for Designing Cryptographic Key Management Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.5		Concise Binary Object Representation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.6		Different Approaches to Ethereum Identity Standards								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.7		What is a uPort identity?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.8		The Meaning of Decentralization								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.9		Real World Patterns of Failure in Anonymity Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.10		Principles of Remote Attestation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.11		Veres One								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.12		Reality Mining: Sensing Complex Social Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.13		Cryptography Engineering								
		37	37.14	30.33	A Decentralized Public Key Infrastructure with Identity Retention								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.15		Personal Identity Verification (PIV) of Federal Employees and Contractors								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.16		Security Assertions Markup Language								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.17		Internet X.509 Public Key Infrastructure Certificate and CRL Profile								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.18		Updates to the Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.19		Guide to Attribute Based Access Control (ABAC) Definition and Considerations								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.20		X.609 Abstract Syntax Notation One (ASN.1) Encoding Rules								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.21		JSONWeb Algorithms (JWA) Specification								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.22		JSONWeb Signature (JWS) Specification								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.23		JSONWeb Token (JWT) Specification								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.24		The Byzantine Generals Problem								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.25		Certificate Transparency								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.26		JSON Schema for Attribute-based Access Control for Network Resource Security								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.27		Linked Data Proofs								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.28		What are Capabilties?								
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	37	37.29		Decentralized Identifiers (DIDs)	2019	Drummond Reed, Manu	W3C			No	"The vast majority of these globally unique	"The Decentralized Identifiers (DIDs) defined in this specific
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.30		The Transport Layer Security (TLS)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.31		Uniform Resource Names (URNs)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.32		Openid connect core 1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.33		Applied Cryptography								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.34		Secrets and Lies: Digital Security in a Networked World								
		37	37.35	30.80	Verifiable Credentials Data Model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.36		Veres One DID Method Specification								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.37		Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.38		The EU General Data Protection Regulation (GDPR): A Practical Guide								
		38	38.1	34.2	Blockchain: Hype oder innovation								
		38	38.2	26.1	Bitcoin: A peer-to-peer electronic cash system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.3		How to time-stamp a digital document								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.4		Pricing via processing or combatting junk mail								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.5		Hashcash-a denial of service counter-measure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.6		Eventually returning to strong consistency								
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	38	38.7		Verifiable Claims Working Group Frequently Asked Questions	2017	W3C Techbology and s	Technical Report: W3C	"A verifiable claims ecosy		No		
		38	38.8	27.8	The path to self-sovereign identity								
		38	38.9	17	The inevitable rise of self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.10		Names: Decentralized, secure, human-meaningful: Choose two								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.11		The apollo domain distributed file system, in: Distributed Operating Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.12		A universally unique identifier (uuid) urn namespace								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.13		Registration authority								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.14		Id generation in mobile environments								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.15		Internet x.509 public key infrastructure: Certification path building								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.16		Diginotar certificate authority breachoperation black tulip								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.17		Certified lies: Detecting and defeating government interception attacks against ssl								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.18		Openpgp message format								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.19		Freenet: A distributed anonymous information storage and retrieval system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.20		Namecoin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.21		Emercoin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.22		An empirical study of namecoin and lessons for decentralized namespace design								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.23		Establishing identity without certification authorities								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.24		Ethereum Name Service								
		38	38.25	26.9	Uport: A platform for self-sovereign identity								
		38	38.26	37.7	What is a uport identity?								
		38	38.27	26.5	Blockstack: A global naming and storage system secured by blockchains								
		38	38.28	37.29	Decentralized Identifiers (DIDs)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.29		Civic								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.30		Selfkey								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.31		Sovrin foundation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.32		IPID Interplanetary Identifiers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.33		Digital bazaar								
		38	38.34	30.33	A decentralized public key infrastructure with identity retention								
		38	38.35	37.3	Decentralized public key infrastructure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.36		Smart cards aren't always the smart choice								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.37		Efficient quantum-immune keyless signatures with identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.38		Password authentication with insecure communication								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.39		A survey on biometric cryptosystems and cancelable biometrics								
		38	38.40	30.80	Verifiable Credentials Data Model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.41		Nearly 4 million bitcoins lost forever, new study says								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.42		Is Verifiable Credentials sufficiently different from Verifiable Claims?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.43		Ethereum claims registry								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.44		City of zug								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.45		Announcing gnosis olympia								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.46		Ipfs-content addressed, versioned, p2p file system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1		BDSG - Bundesdatenschutzgesetz: Kommentar								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.2		Decision no. 2016-007 of january 26, 2016 issuing formal notice to facebook inc. and facebook ireland								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.3		A censorship-resistant, privacy-enhancing and fully decentralized name system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.4		On the feasibility of a censorship resistant decentralized name system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.5		Nameid								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.6		Access contested: security, identity, and resistance in Asian cyberspace								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.7		Us, british intelligence mining data from nine us internet companies in broad secret program								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.8		At sina weibos censorship hub, chinas little brothers cleanse online chatter								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.9		Privacy-preserving auditing for attribute-based credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.10		Design and implementation of the idemix anonymous credential system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.11		Snarks for c: Verifying program executions succinctly and in zero knowledge								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.12		Towards secure name resolution on the internet								
		45	45.13	38.20	Namecoin is a decentralized open source information registration and transfer system based on the bitcoin cryptocurrency								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.14		Nsec5: Provably preventing dnssec zone enumeration								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.15		Hijacking bitcoin: Routing attacks on cryptocurrencies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.16		On Bitcoin Security in the Presence of Broken Cryptographic Primitives								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.17		Attribute-based encryption in systems with resource constrained devices in an information centric networking context								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.18		Employing attribute-based encryption in systems with resource constrained devices in an information-centric networking context								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.19		Fame: Fast attribute-based message encryption								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.20		Ciphertext-policy attribute-based encryption								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.21		Pairings for cryptographers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.22		R5n: Randomized recursive routing for restricted-route networks								
		45	45.23	37.32	Openid connect core 1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.24		Dp5: A private presence service								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.25		Coniks: Bringing key transparency to end users								
		45	45.26	35.15	Claimchain: decentralized public key infrastructure								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.27		Managing and Presenting User Attributes over a Decentralized Secure Name System								
		45	45.28	26.9	Uport: A platform for self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.29		InterPlanetary File System (IPFS)								
		45	45.30	27.29	Ethereum: A Next-Generation Smart Contract and Decentralized Application Platform								
		53	53.1	34.2	Blockchain: Hype oder innovation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.2		A platform for self-sovereign identity								
		53	53.3	27.8	The path to self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.4		Awesome decentralized identity. self-sovereign, blockchain and decentralized identity resources								
		53	53.5	26.4	The technical foundations of sovrin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.6		Ethereum: A secure decentralised generalised transaction ledger								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.7		Jolocom								
		53	53.8	26.5	Blockstack: A global naming and storage system secured by blockchains								
		53	53.9	37.29	Decentralized identifiers (dids). data model and syntaxes for decentralized identifiers (dids)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.10		Did auth: Scope, formats, and protocols								
		53	53.11	37.32	Openid connect core 1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.12		Universal resolver								
		53	53.13	34	A quantifiable trust model for blockchain-based identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.1		Identity Management: A Primer								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.2		Trust requirements in identity management								
		57	57.3	30.80	Verifiable Credentials Data Model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.4		A comparative analysis of trust requirements in decentralized identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.5		Virtual collaboration attribute management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.6		Analysing attribute aggregation models in federated identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.7		A conceptual model for attribute aggregation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.8		The trusted attribute aggregation service (TAAS) - providing an attribute aggregation layer for federated identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.9		A hybrid model of attribute aggregation in federated identity management								
		57	57.10	57.6	Analysing attribute aggregation models in federated identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.11		Trust-abac towards an access control system for the internet of things								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.12		Attribute aggregating system for shibboleth based access management federation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.13		Attribute aggregation and federated identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.14		Cross-domain authorization for federated virtual organizations using the myvocs collaboration environment								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.15		Federated authentication and authorisation in the social science domain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.16		Ofelia - a secure mobile attribute aggregation infrastructure for usercentric identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.17		Towards automated trust establishment in federated identity management								
		57	57.18	34.6	An attribute assurance framework to define and match trust in identity attributes								
		57	57.19	34.5	An identity provider to manage reliable digital identities for soa and the web								
		57	57.20	34.17	Enhancing claim-based identity management by adding a credibility level to the notion of claims								
		57	57.21	34.19	Attributetrust - a framework for evaluating trust in aggregated attributes via a reputation system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.22		Nist special publication 800-63-3								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.23		Guideline on identity assurance								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.24		Liberty identity assurance framework.version 1.1								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.25		internet x.509 public key infrastructure certificate and certificate revocation list (crl) profil								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.26		The pgp trust model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.27		Trust Theory: A Socio-Cognitive and Computational Model								
		57	57.28	27.66	A survey of trust and reputation systems for online service provision								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.29		The meanings of trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.30		Statistical methods and concepts								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	57	57.31		Using quantified trust levels to describe authentication requirements in federated identity management								
		57	57.32	53.2	A platform for self-sovereign identity								
		57	57.33	37.32	Openid connect core 1.0								
		57	57.34	53.9	Decentralized identifiers (dids). data model and syntaxes for decentralized identifiers (dids)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.1		The Practical Subtleties of Biometric Key Generation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.2		Uae government adopting facial and iris recognition to identify customers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.3		Arm trustzone technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.4		Ibm blockchain platform rest connector								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.5		Generalized hamming distance								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.6		Hyperledger fabric								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.7		The fingerprint: 100 years in the service of the swiss confederation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.8		A survey of biometric recognition methods								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.9		Decentralized identity foundation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.10		Fuzzy Extractors: How to Generate Strong Keys from Biometrics and Other Noisy Data								
		58	58.11	37.32	Openid connect core 1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.12		Deeppolya: A convolutional neural network approach for polyadenylation site prediction								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.13		Unlinkable and irreversible biometric template protection based on bloom filter								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.14		Opm now admits 5.6m feds' fingerprints were stolen by hackers								
		58	58.15	37.29	Decentralized identifiers (dids)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.16		Hyperledger identity working group								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.17		Private key generation from on-line handwritten signatures								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.18		Decentralized biometric authentication								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.19		Ibm blockchain platform								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.20		Digital identity network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.21		Beyond fingerprinting: Is biometrics the best bet for fighting identity theft?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.22		Biometrics: A grand challenge								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.23		An introduction to biometric recognition								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.24		Facebook stored hundreds of millions of user passwords in plain text for years								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.25		Cancelable iris template generation based on Indexing-First-One hashing								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.26		The world's largest biometric id system keeps getting hacked								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.27		Biometric template protection based on Bloom filters and honey templates								

Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.28		Cryptographic key generation from voice				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.29		Automated fingerprint identification system (afis)				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.30		A hybrid biometric cryptosystem for securing fingerprint minutiae templates				
		58	58.31	26.1	Bitcoin: A peer-to-peer electronic cash system				
		58	58.32	26.20	Namecoin				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.33		The OAuth 2.0 Authorization Framework				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.34		Aadhaar linking risky, makes it easy prey for hackers				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.35		Unique Identification Authority of India				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.36		Cancelable biometrics: A review				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.37		Cancelable multibiometrics: Mixing iris-codes based on adaptive bloom filter				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.38		Cancelable biometrics and annotations on BioHash				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.39		Fingerprint controlled public key cryptographic system				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.40		A survey on identity management for the future network				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.41		Biometric cryptosystems: issues and challenges				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.42		Replacing na tokens with biometrics				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.43		Biometric hash based on statistical features of online signatures				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.44		Fast time series classification using numerosity reduction				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.45		Convolutional neural network architectures for predicting dna-protein binding				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.46		Mobile advertising forecast				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.47		Time series classification using multi-channels deep convolutional neural networks				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.48		The Official PGP User's Guide				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1		User-controlled identity management systems using mobile devices				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.2		The Laws of Identity				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.3		Security usability of pathrame systems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.4		Common Terminological Framework for Interoperable Electronic Identity Management				
		60	60.5	60.1	Mathematical modelling of identity, identity management and other related topics				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.6		A Gentle Introduction to Self-Sovereign Identity				
		60	60.7	20.74	A Self-Sovereign Identity Architecture				
		60	60.8	57.8	The Path to Self-Sovereign Identity				
		60	60.9	30.67	User centric identity management				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.10		OASIS Standard				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.11		OpenID Authentication 2.0				
		60	60.12	58.33	The OAuth 2.0 Authorization Framework				
		60	60.13	69	Self-sovereign identity - Opportunities and challenges for the digital revolution				
		60	60.14	38	A survey on essential components of a self-sovereign identity				
		60	60.15	18	Towards self-sovereign identity using blockchain technology				
		60	60.16	35	Deployment of a blockchain-based self-sovereign identity				
		60	60.17	51	Federation of attribute providers for user self-sovereign identity				
		60	60.18	17	The inevitable rise of self-sovereign identity				
Include (Satisfies IC-1 The paper includes a novel cor	Include (Satisfies IC-1 The paper includes a novel	60	60.19		A technology free definition of self-sovereign identity	2016	Joe Andrieu	Workshop: Rebooting V"then propose core chara	No
		60	60.20	26.1	Bitcoin: A peer-to-peer electronic cash system				
		60	60.21	26.9	Uport: A platform for self-sovereign identity				
		60	60.22	53.7	Jolocom				
		60	60.23	26.4	The Technical Foundations of Sovrin				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.24		Blockcerts Guide				
		60	60.25	60.1	Portable personal identity provider in mobile phones				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.26		Access Control Lists: Overview and Guidelines				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.27		Role-based access control				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.28		Attributed based access control (ABAC) for Web services				
		60	60.29	57.9	A hybrid model of attribute aggregation in federated identity management				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.30		Attribute aggregation in federated identity management				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1		Will the digital world solve the identity crisis?				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.2		Equifax data breach was 'entirely preventable'				
		65	65.3	60.2	The Laws of Identity				
		65	65.4	20.60	Verifiable Credentials Data Model				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.5		An opinion on the 'Report on Securing and Growing the Digital Economy'				
		65	65.6	27.8	The path to self-sovereign identity				
		65	65.7	37.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.8		In search of usable security: Five lessons from the field				
		65	65.9	59	Architecture for self-sovereign digital identity				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.10		On the usefulness of proof of possession				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.11		What is proof of existence?				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.12		BlockchainMe, a tool for creating verifiable IDs on the blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.1		1.1 billion 'invisible' people without ID are priority for new high level advisory council on identification for development				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.2		Blockchain and Financial Inclusion. The role blockchain technology can play in accelerating financial inclusion				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.3		LastPass Reveals 8 Truths about Passwords in the New Password Exposé				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.4		TRIMS, a privacy-aware trust and reputation model for identity management systems				
		66	66.5	27.8	The path to self-sovereign identity				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.6		Contribute to WebOfTrust/ttf-schwi64-parts development by creating an account on GitHub				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.7		Trusted execution environments on mobile devices				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.8		Audit and backup procedures for hardware security modules				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.9		Method for producing a digital signature with aid of a biometric feature				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.10		Secure private key generation using a fingerprint				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.11		Cryptographic techniques for privacy-preserving data mining				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.12		Protocols for secure computations				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.13		How to play any mental game				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.14		Computationally private information retrieval				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.15		Secure multiparty computation for privacy preserving data mining				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.16		An effective private data storage and retrieval system using secret sharing scheme based on secure multi-party computation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.17		How to share a secret				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.18		Tools for privacy preserving distributed data mining				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.19		Privacy-preserving k-secure sum protocol				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.20		An efficient method for privacy preserving data mining in secure multiparty computation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.21		How to share a function securely				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.22		Safeguarding cryptographic keys				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.23		A key escrow scheme to IOT based on Shamir				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.24		A Proposal of Key Recovery Mechanism for Personal Decryptographic Keys				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.25		Matching key recovery mechanisms to business requirements				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.26		Hyperledger Indy				
		66	66.27	37.29	Decentralized Identifiers (DIDs) v0.11				
		66	66.1	37.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust				
		66	66.2	27.8	The Path to Self-Sovereign Identity				
		66	66.3	17	The Inevitable Rise of Self-Sovereign Identity				
		66	66.4	20.60	Verifiable Credentials Data Model				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.5		Apache solr				
		66	66.6	26.1	Bitcoin: A peer-to-peer electronic cash system				
		66	66.7	53.6	Ethereum: A secure decentralised generalised transaction ledger				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.8		A first look at identity management schemes on the blockchain				
		66	66.9	36.19	Names: Decentralized, Secure, Human-Meaningful: Choose Two				
		66	66.10	30.33	A Decentralized Public Key Infrastructure with Identity Retention				
		66	66.11	37.3	Decentralized Public Key Infrastructure				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.12		Decentralized Anonymous Credentials				
		66	66.13	58.9	Decentralized identity foundation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.14		Verifiable claims use cases				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.15		Demo bürgeramt				
		66	66.16	38	A Survey on Essential Components of a Self-Sovereign Identity				
		66	66.17	37.29	Decentralized identifier				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.18		W3c did method registry				
		66	66.19	53.7	Jolocom				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.20		Ocean protocol				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.21		Uniresolver				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.22		Uniresolver repository				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.23		Uniregistrar				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.24		A DID for Everything				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.25		Distributed and Domain-Independent Identity Management for User Profiles in the SONIC Online Social Network Federation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.26		Seamless Interoperability and Data Portability in the Social Web for Facilitating an Open and Heterogeneous Online Social Network Federation				
		66	66.27	36.20	Namecoin				
		66	66.28	26.5	Blockstack: A Global Naming and Storage System Secured by Blockchains				
		66	66.29	36.31	Sovrin				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.30		Sovrin: digital identities in the blockchain era				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.31		Hyperledger indy github				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.32		Hyperledger aries				
		66	66.33	66.26	Hyperledger indy				
		66	66.34	37.24	The byzantine generals problem				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.35		Plenum: Byzantine fault tolerant protocol				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.36		Practical byzantine fault tolerance				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.37		Tendermint: Byzantine fault tolerance in the age of blockchains				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.38		Verifiable orginazations network				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.39		Orgbook BC				
		66	66.40	53.7	Jolocom				
		66	66.41	26.9	Uport: A platform for self-sovereign identity				
		66	66.42	37.11	Veres one				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.43		Sidetree protocol				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.44		Microsoft ion				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.45		Microsoft blog, ion announcement				
		66	66.46	36.29	Civic				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.47		Identity.com				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.48		Elastic				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.49		Apache lucene				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.50		Indyscan				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.51		Vons sovrin mainnet search				
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	66	66.52		How many companies are there in the world?				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.53		Aries RFC 0037: Present Proof Protocol 1.0				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.54		From oracles to trustworthy data on-chaining systems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	66	66.55		Schema Overlays				
		74	74.1	26.1	Bitcoin: A Peer-to-Peer Electronic Cash System				
		74	74.2	35.7	The tangle				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.3		The great british brexit robbery: how our democracy was hijacked				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.4		The cambridge analytica files				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.5		Computer Science and Communications Dictionary				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.6		Identity Management				
		74	74.7	30.3	Self-sovereign identity principles				
		74	74.8	58.33	The OAuth 2.0 Authorization Framework				
		74	74.9	27.13	The OAuth 1.0 Protocol				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.10		Pretty Good Privacy (PGP)				
		74	74.11	35.9	Who Am I? Secure Identity Registration on Distributed Ledgers				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.12		Sustainability of bitcoin and blockchains				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.13		Securing Proof-of-Stake Blockchain Protocols				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.14		Nxt whitepaper				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.15		Blackcoin's proof-of-stake protocol				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.16		Nano: A feeless distributed cryptocurrency network				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.17		Byteball				
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	74	74.18		Definition of sovereignty in english				
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	74	74.19		On Liberty				
		74	74.20	31	Vice laws and self-sovereignty				
		74	74.21	60.2	The laws of identity				
		74	74.22	69	Self-sovereign identity				
		74	74.23	37.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust				
		74	74.24	18	Towards Self-Sovereign Identity using Blockchain Technology				
		74	74.25	38	A survey on essential components of a self-sovereign identity				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.26		A User-Centric System for Verified Identities on the Bitcoin Blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.27		Rethinking Public Key Infrastructures and Digital Certificates: Building in Privacy				
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	74	74.28		Sovereign source authority				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.29		uport specs				
		74	74.30	26.9	Uport: A platform for self-sovereign identity				
		74	74.31	26.4	The technical foundations of sovrin				
		74	74.32	36.29	Civic				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	74	74.33		Identity management verified using the blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.1		libsnark				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.2		Modular design and composition of succinct zero-knowledge proof				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.3		On signatures of knowledge				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.4		Geppetto: Versatile verifiable computation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.5		The hyperledger project				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.6		Efficient and non-interactive non-malleable commitment				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.7		Dash: A privacycentric cryptocurrency				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.8		Off-chaining models and approaches to off-chain computations				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.9		Hash first, argue later: Adaptive verifiable computations on outsourced data				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.10		The cramer-shoup strong-rsa signature scheme revisited				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.11		Accountable privacy for decentralized anonymous payments				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.12		Short pairing-based non-interactive zero-knowledge arguments				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.13		On the size of pairing-based non-interactive arguments				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.14		Up-datable and universal common reference strings with applications to zk-snarks				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.15		Snarky signatures: Minimal signatures of knowledge from simulation-extractable snark				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.16		jsnark: A java library for building snarks				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.17		The blockchain model of cryptography and privacy-preserving smart contracts				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.18		xjsnark: a framework for efficient verifiable computation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.19		(TRUESET): Faster verifiable set computations				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.20		Can blockchain strengthen the internet of things?				

Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.21			Concurrency and privacy with payment-channel networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.22			Zerocoin: Anonymous distributed e-cash from bitcoin					
		82	82.23		26.1	Bitcoin: A peer-to-peer electronic cash system					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.24			Pinocchio: Nearly practical verifiable computation					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.25			11 blockchain technology: principles and applications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.26			The bitcoin lightning network: Scalable off-chain instant payments					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.27			Non-interactive zero-knowledge proof of knowledge and chosen ciphertext attack					
		82	82.28	27.29		decentralizedIdentifie					
		82	82.29	49		self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.30			Zerocash: Decentralized anonymous payments from bitcoin					
		82	82.31	30.80		verifiable credential					
		82	82.32	16		Deployment of a blockchain-based self-sovereign identity					
		82	82.33	17		The inevitable rise of self-sovereign identity					
		82	82.34	53.8		Ethereum: A secure decentralised generalised transaction ledger					
		82	82.35	35.5		Decentralizing privacy: Using blockchain to protect personal data					
		99	99.1	28		Self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.2			NewHope on ARM Cortex-M					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.3			Serial infrared specification					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.4			Private-sector digital identity in emerging markets					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.5			Cryptografi6					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.6			Blockchains and smart contracts for the internet of things					
		99	99.7	26.9		Uport: A platform for self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.8			The Design of Rijndael: AES-The Advanced Encryption Standard					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.9			The digitization of the world - from edge to core					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.10			TLS v 1.2					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.11			RIPEMD-160: a strengthened version of RIPEMD					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.12			Data protection in the EU					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	99	99.13			Statistical Tables for Biological, Agricultural and Medical Research					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.14			Trick with treat-reciprocity increases the willingness to communicate personal data					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.15			IPv6 specification					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	99	99.16			Radio frequency parameters for communications at 13,56 MHz					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.17			ISO 27000					
		99	99.18	30.45		The elliptic curve digital signature algorithm (ECDSA)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.19			Memory-efficient implementation of elliptic curve cryptography for the internet-of-things					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.20			A comparison of the standardized versions of ECIES					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.21			Information-theoretically secure secret-key agreement by NOT authenticated public discussion					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.22			The security and performance of the Galois/Counter Mode (GCM) of operation					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	99	99.23			World internet users and population stats					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.24			FIPS 186-4-Digital Signature Standard (DSS)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.25			Trusted execution environment: what it is, and what it is not					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.26			Access control: principle and practice					
		99	99.27	66.17		How to share a secret					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	99	99.28			Risk Management Guide					
		99	99.29		82.5	The hyperledger project					
		99	99.30	68.29		Sovrin					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	99	99.31			Mersenne prime					
		100	100.1	28		Self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.2			A global naming and storage system secured by blockchains					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.3			A new internet for decentralized applications					
		100	100.4	27.8		The path to self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.5			A decentralized storage architecture					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.6			Blockstack technical whitepaper					
		100	100.7	74.3		The great british brexit robbery: how our democracy was hijacked					
		100	100.8	74.4		The cambridge analytica files					
		100	100.9	60.2		The laws of identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.10			Evolving trust with applied game theory: Recent white paper update describes trust creation through smart contracts					
		100	100.11	68.8		A first look at identity management schemes on the blockchain					
		100	100.12	58.9		Decentralized identity foundation					
		100	100.13	68.26		Hyperledger indy					
		100	100.14	28.30		Selfkey					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.15			ilMiD: An open-source, blockchain-based platform for self-sovereign identity					
		100	100.16	26.9		Uport: A platform for self-sovereign identity					
		100	100.17	74.28		Sovereign source authority					
		100	100.18	61		Vice laws and self-sovereignty					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.19			Working together for better self-sovereign identity: Civic, selfkey, and peer mountain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.20			Multichain: Open source blockchain platform					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.21			Comparative Study on Identity Management Methods Using Blockchain					
		100	100.22	26.1		Bitcoin: A Peer-to-Peer Electronic Cash System					
		100	100.23	26.1		Bitcoin: A peer-to-peer electronic cash system					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.24			Oblivious identity management for private and user-friendly services					
		100	100.25	27.29		Decentralized identifiers (dids)					
		100	100.26	27.43		ShoCard: Identity for a mobile world					
		100	100.27	28.31		Sovrin: Control your digital identity					
		100	100.28	17		The inevitable rise of self-sovereign identity					
		100	100.29	26.25		uPort: Open identity system for the decentralized web					
		100	100.30	74.9		Computer Science and Communications Dictionary					
		100	100.31	28.29		Civic					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.1			Design in Type-I, run in Type-III: fast and scalable bilinear-type conversion using integer programming					
		104	104.2	104		Qualified eID derivation into a distributed ledger based IdM system					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.3			Feistel structures for MPC, and more					
		104	104.4	27.8		The Path to Self-Sovereign Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.5			RELIC is an Efficient Library for Cryptography					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.6			RBFT: redundant byzantine fault tolerance					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.7			Non-interactive anonymous credentials					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.8			Towards a privacy-preserving reliable European identity ecosystem					
		104	104.9	30.10		Identity Management: Concepts, Technologies, and Systems					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.10			Threshold signatures, multisignatures and blind signatures based on the gap-Diffie-Hellman-group signature scheme					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.11			Short signatures from the Weil pairing					
		104	104.12	45.10		Design and implementation of the idemix anonymous credential system					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.13			Practical Byzantine fault tolerance and proactive recovery					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.14			Post-quantum zero-knowledge and signatures from symmetric-key primitives					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.15			A new hash-and-sign approach and structure-preserving signatures from DLIN					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.16			Pixel: multi-signatures for consensus					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.17			Proofs on encrypted values in bilinear groups and an application to anonymity of signatures					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.18			Non-interactive zaps and new techniques for NIZK					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.19			Facebook security breach exposes accounts of 50 million users					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.20			Improved non-interactive zero knowledge with applications to post-quantum signatures					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.21			Towards cross-domain eID by using agile mobile authentication					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.22			Equifax data breach impacts 143 million Americans					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.23			Challenges with assessing the impact of NFS advances on the security of pairing-based cryptography					
		104	104.24	28		A survey on essential components of a self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.25			Guidelines for Derived Personal Identity Verification (PIV) Credentials					
		104	104.26	27.13		SAML (security assertion markup language) specification					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.27			U-prove cryptographic specification v1.1					
		104	104.28	27.29		Decentralized Identifiers (DIDs) v0.9					
		104	104.29	27.37		Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.30			Efficient identity-based encryption without random oracles					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.31			An overview of cloud identity management-models					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1			Privacy enhanced fast mutual authentication in 5G network using identity based encryption					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.2			S-AKA: A provable and secure authentication key agreement protocol for UMTS networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.3			Robust and universal seamless handover authentication in 5G hetnets					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.1			X.509: Information technology-open systems interconnection--the directory: Public-key and attribute certificate frameworks					
		107	107.2	28.18		OpenPGP message format					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.3			#AadhaarLeaks: A list of Aadhaar data leaks					
		107	107.4	30.75		Blockchain: Blueprint for a New Economy					
		107	107.5	27.29		Decentralized identifiers (DIDs)					
		107	107.6	30.80		Verifiable credentials data model					
		107	107.7	28.25		uPort					
		107	107.8	68.29		Sovrin					
		107	107.9	100.6		Blockstack					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.10			Blockchain for education: Lifelong learning passport					
		107	107.11	40		A new approach to client onboarding using self-sovereign identity and distributed ledger					
		107	107.12	36		Sora identity: Secure, digital identity on the blockchain					
		107	107.13	107		Design patterns for blockchain-based self-sovereign identity					
		109	109.4	65		Self-sovereign digital identity: A paradigm shift for identity					
		109	109.5	26.1		Bitcoin: A peer-to-peer electronic cash system					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.6			Chameleon signatures					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.7			Enabling efficient user revocation in identity-based cloud storage auditing for shared big data					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.8			MARP: A distributed MAC layer attack resistant pseudonym scheme for VANET					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.9			A secure, efficient, and accountable edge-based access control framework for information centric networks					
		109	109.10	30.23		The seven flaws of identity management: Usability and security challenges					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.11			Federated identity architecture of the European eID system					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.12			Cloud-based utility service framework forfrust negotiations using federated identity management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.13			Privacy-aware personal data storage P-PDS: Learning how to protect user privacy from external applications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.14			PrivBioMTAuth: Privacy preserving biometrics-based and user centric protocol for user authentication from mobile phones					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.15			User-centric identity management: New trends in standardization and regulation					
		109	109.16	40		Private data system enabling self-sovereign storage managed by executable choreographies					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.17			The Horcrux protocol: a method for decentralized biometric-based self-sovereign identity					
		109	109.18	60		In search of self-sovereign identity leveraging blockchain technology					
		109	109.19	26.9		Uport: A platform for self-sovereign identity					
		109	109.20	68.29		Sovrin					
		109	109.21	27.43		ShoCard					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.22			An efficient conditional privacy-preserving authentication scheme for vehicular sensor networks without pairings					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.23			An efficient identity-based conditional privacy-preserving authentication scheme for vehicular ad hoc networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.24			An accountable, privacy-preserving, and efficient authentication framework for wireless access networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.25			Privacy-preserving universal authentication protocol for wireless communications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.26			An anonymous and self-verified mobile authentication with authenticated key agreement for large-scale wireless networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.27			Universal authentication protocols for anonymous wireless communications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.28			Efficient privacy-preserving authentication in wireless mobile networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.29			AAFPA: Anonymous and fast roaming authentication for space information network					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.30			Redactable blockchain-or-rewriting history in bitcoin and friends					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.31			Fine-grained and controlled rewriting in blockchains: Chameleon-hashing gone attribute-based					
		109	109.32	68.36		Practical Byzantine fault tolerance					
		109	109.33	62.26		The bitcoin lightning network: Scalable off-chain instant payments					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.34			Analysis of SSL certificate reissues and revocations in the wake of Heartbleed					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.1			A Survey on Single Sign On					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.2			A Survey on Single Sign-On Techniques					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.3			A Federated Identity Management System with Centralized Trust and Unified Single Sign-On					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.4			A Study on Threat Model for Federated Identities in Federated Identity Management System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.5			User Data Privacy: Facebook, Cambridge Analytica and Privacy Protection					
		110	110.6	60		In Search of Self-Sovereign Identity Leveraging Blockchain Technology					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.7			OpenID 2.0: A Platform for User-Centric Identity Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.8			What Makes Users Refuse Web Single Sign-On? An Empirical Investigation of OpenID					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.9			A Security Analysis of OpenID					
		110	110.10	68.8		A First Look at Identity Management Schemes on the Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.11			A Decentralized Digital Identity Architecture					
		110	110.12	61		Self-Sovereign Identity Solutions: The Necessity of Blockchain Technology					
		110	110.13	26.9		uPort: A Platform for Self-Sovereign Identity					
		110	110.14	27.37		Sovrin-Protocol-and-Token-White-Paper					
		110	110.15	27.29		Decentralized Identifiers (DIDs)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.16			A Comprehensive Formal Security Analysis of OAuth 2.0					
		110	110.17	60.12		OAuth 2.0 Authorization Framework					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.18			Differences between OAuth 1 and 2					
		110	110.19	60.13		Self-Sovereign Identity-Opportunities and Challenges for the Digital Revolution					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.20			Do Not Trust Me: Using Malicious IdPs for Analyzing and Attacking Single Sign-on					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.21			An Overview of Blockchain Technology: Architecture, Consensus, and Trends					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.22			Push Notification Mechanisms for Pervasive Smartphone Applications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.23			A Next-Generation Smart Contract and Decentralized Application Platform, Ethereum Whitepaper					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.24			Proposal: Kovan Testnet					
		110	110.25	27.51		Ethereum API(IPFS API Gateway/ETH Node as Service)infura					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.26			Metamask/Metamask-Docs: Metamask Project Documentation					
		113	113.1	27.8		The path to self-sovereign identity					
		113	113.2	58.48		The official PGP user's guide					
		113	113.3	35.2		Why johnny can't encrypt: A usability evaluation of PGP 5.0					
		113	113.4	27.18		New directions in cryptography					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.5			Access control systems: security, identity management and trust models					
		113	113.6	26.9		uPort: A platform for self-sovereign identity					
		113	113.7	68.30		Sovrin: Digital identities in the blockchain era					
		113	113.8	53.7		Jobcoin					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.9			IRMA: Practical, decentralized and privacy-friendly identity management using smartphones					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.10			Trustchain protocol					
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		113	113.12	60.2		The laws of identity					
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.14			Let's find a more accurate term than 'self-sovereign identity'					
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.18		Open Sourcing Normative Assumptions on Privacy and Other Moral Values in Blockchain Applications
		113	113.19	111	Self-sovereign identity in a globalized world: Credentials-based identity systems as a driver for economic inclusion
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.20		Device fingerprinting in wireless networks: Challenges and opportunities
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.21		Chinese cyber espionage and the national security risks huawei poses to 5g networks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.22		The convergence of virtual reality and social networks: Threats to privacy and autonomy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.23		Democratizing software: Open source, the hacker ethic, and beyond
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.24		The privacy paradox: Personal information disclosure intentions versus behaviors
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.25		Privacy by design the 7 foundational principles
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.26		(ISO/IEC 29100:2011 information technology - security techniques - privacy framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.27		Defaults, framing and privacy: Why opting in-opting out
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.28		Tracking unmodified smartphones using wi-fi monitors
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.29		Web content accessibility guidelines (WCAG)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.30		The identity crisis (1) - membership vs ownership
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.31		Privacy-preserving social plugins
		113	113.32	30.29	Regulation 2016/679 of the European parliament and the Council of the European Union
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.33		The clash of empires: Regulating technological threats to civil society
		113	113.34	116	IPv8 documentation
		113	113.35	35.6	TrustChain: A sybil-resistant scalable blockchain
		113	113.36	116	GitHub.com/tribler/py-ipv8
		113	113.37	95	Deployment of a blockchain-based self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.38		Internet protocol
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.39		X.509 - information technology - open systems interconnection - the directory: Public-key and attribute certificate frameworks
		113	113.40	35.18	Evaluating 2-DNF formulas on ciphertexts
		113	113.41	35.11	An efficient range-proof scheme
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.42		Zero-knowledge proofs for set membership: Efficient, succinct, modular
		113	113.43	36.1	Bitcoin: A peer-to-peer electronic cash system
		113	113.44	55.6	Ethereum: A secure decentralised generalised transaction ledger
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.45		eIDAS regulation (EU) no 910/2014 of the european parliament and of the council of 23 july 2014 on electronic identification and trust services for
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Exclude (EC-1 The research work is not in the area of Exclude (EC-1 The research work is not in the are		113	113.53		10 vragen over erfenkenning, het inlogsysteem van de Belastingdienst waar ondernemers boos over zijn
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.54		Locked out on LinkedIn: LinkedIn account belongs to employee, not employer
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.55		Internet security glossary
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.56		NIST 800-162 guide to attribute based access control (ABAC) definition and considerations
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.57		Een nieuwe identiteit, een nieuw DNA
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.58		Regels over het hergebruik van overheidsinformatie (Wet hergebruik van overheidsinformatie)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.59		KVK data over de bedrijvendynamiek
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.60		Android permissions demystified
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.61		How DIDs, keys, credentials and agents work in sovrin
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.62		All In One CISSP Exam Guide
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.63		Keyshare protocol
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.64		Hardware security modules
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.65		Snel en veilig gegevens delen met self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.66		Rapport houd het simpel
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.67		Javascript promises, MDN Web Docs
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.68		The WebSocket protocol
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	113	113.69		Server-sent events
		114	114.1	27.8	The path to self-sovereign identity
		114	114.2	101	Certifying provenance of scientific datasets with self-sovereign identity and verifiable credentials
		114	114.3	60	Self-sovereign identity: Use-cases, technologies, and challenges for industrial iot
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	114	114.4		Ietar 2.0 language guide
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	114	114.5		The trust over ip stack
		114	114.6	64	Using biometrics to fight credential fraud
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	114	114.7		On using json-ld to create evolvable restful services
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	114	114.8		pister tool-a pluggable online tool for goal modeling
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	114	114.9		Cryptographic hash functions
		114	114.10	30.60	Verifiable credentials data model
		114	114.11	17	The inevitable rise of self-sovereign identity
		114	114.12	111	Self-sovereign identity in a globalized world: Credentials-based identity systems as a driver for economic inclusion
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	114	114.13		Modeling strategic relationships for process reengineering
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.1		Wild patterns: Ten years after the rise of adversarial machine learning
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.4		RDF 1.1 Concepts and Abstract Syntax
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.5		Unique in the shopping mall: On the reidentifiability of credit card metadata
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.6		On the Security of Public Key Protocols
		117	117.7	30.29	Regulation 2016/679 of the European parliament and the Council of the European Union
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.8		Proofs that Yield Nothing But Their Validity or All Languages in NP Have Zero-Knowledge Proof Systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.9		Adversarial Machine Learning
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.10		Specification on the identity mixer cryptographic library, version 2.3.40
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.11		WebID-TLS WebID Authentication over TLS
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.12		Risk management - Principles and guidelines
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.13		Shapes Constraint Language (SHACL)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.14		A Demonstration of the Solid Platform for Social Web Application
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.16		Cyber Security Using Bayesian Attack Path Analysis
		117	117.17	36.1	Bitcoin: A Peer-to-Peer Electronic Cash System
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.20		The Typed Access Matrix Model
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.21		A Language-Based Approach to Security
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.22		A study of RegTec with blockchain
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.26		Cyber Security in the Quantum Era
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.28		Tagging Disclosures of Personal Data to Third Parties to Preserve Privacy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	117	117.29		Competitive Compliance with Blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.1		Divertible protocols and atomic proxy cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.2		Identity-based encryption from the Weil pairing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.3		An identity based encryption scheme based on quadratic residues
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.4		Proxy cryptography revisited
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.5		Secure multicast using proxy encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.6		Anonymous proxy re-encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.7		Improved proxy re-encryption schemes with applications to secure distributed storage
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.8		Identity-based proxy re-encryption without random oracles
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.9		Identity-based proxy re-encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.10		An efficient cloud-based revocable identity-based proxy re-encryption scheme for public clouds data sharing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.11		CL-PRE: a certificateless proxy re-encryption scheme for secure data sharing with public cloud
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.12		Asymmetric group key agreement with traitor traceability
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1		Fixing the five problems of internet identity
		130	130.2	17	The inevitable rise of self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.3		A secure mobile cloud identity: Criteria for effective identity and access management standards
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.4		Securing digital identities in the cloud by selecting an apposite federated identity management from SAML, OAuth and OpenID Connect
		130	130.5	25.9	Uport: A platform for self-sovereign identity
		130	130.6	97.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.7		The three models of digital identity relationships
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.8		An analysis of open standard identity protocols in cloud computing security paradigm
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.9		Choice of suitable identity and access management standards for mobile computing and communication
		130	130.10	30.60	Verifiable Credentials Data Model
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.11		A primer for Decentralized Identifier
		130	130.12	97.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust
		130	130.13	60.2	The laws of identity
		130	130.14	36.3	Self-sovereign identity principles
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.15		The nail finds a hammer self-sovereign identity, design principles, and property rights in the developing world
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.16		Privacy preserving identity system for Ethereum dApps
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.18		Sovrin Governance Framework
		144	144.1	97.37	Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust
		144	144.2	65	Self-Sovereign Digital Identity: A Paradigm Shift for Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.3		Decentralized identity: Own and control your identity
		144	144.4	58.9	Decentralized Identity Foundation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.5		W3C Credentials Community Group
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.6		Digital Identity Platform for Secure Exchange of Personal Credentials between Companies
		144	144.7	66.3	LastPass Reveals 8 Truths about Passwords in the New Password Exposé
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.8		Scheduling optimization of flexible manufacturing system using cuckoo search-based approach
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.9		Optimal ordering of independent tests with precedence constraints
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.10		Supply Chain Management: Strategy, Planning & Operation
		144	144.11	66.26	Hyperledger Indy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.12		An R interface to the SYMPHONY MILP solver
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.13		igraph - The network analysis package
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.14		Emergence of scaling in random networks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	144	144.15		Cross-docking and milk run logistics in a consolidation network: A hybrid of harmony search and simulated annealing approach
Exclude (EC-1 The research work is not in the area of Exclude (EC-1 The research work is not in the are		148	148.1		Business models in social networking
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.3		Guide to Industrial Control Systems (ICS) Security
		148	148.4	37.32	OpenID Connect Core 1.0
		148	148.5	58.33	The OAuth 2.0 Authorization Framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.6		SMS-Based One-Time Passwords: Attacks and Defense
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.7		X. 509 Internet public key infrastructure online certificate status protocol-OCSP
		148	148.8	97.29	Decentralized Identifiers (DIDs)
		148	148.9	30.60	Verifiable Credentials Data Model
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.10		Introduction to DID Auth
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.11		MIME Security with OpenPGP
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.12		Web Authentication: An API for accessing Public Key Credentials Level 1
		148	148.13	63	An Integration Architecture to Enable Service Providers for Self-sovereign Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.14		Decentralized public key infrastructure for internet-of-things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.15		Black Tulip Report of the investigation into the DigiNotar Certificate Authority breach
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.16		Does Certificate Transparency Break the Web? Measuring Adoption and Error Rate
		148	148.17	26.5	Blocklack: A Global naming and storage system secured by blockchains
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.18		Decentralised Processing of Global Naming Systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.19		Mir-BFT: High-Throughput BFT for Blockchains
		148	148.20	26.4	The technical foundations of sovrin
		150	150.1	27.8	The Path to Self-Sovereign Identity
		150	150.2	30.60	Verifiable Credentials Data Model
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.3		Anonymous Credential Protocol
		150	150.4	97.29	Decentralized Identifiers (DIDs)
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		150	150.6	68.8	A First Look at Identity Management Schemes on the Blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.7		Trust of first use question
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.8		Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.9		Personally Identifiable Information Examples
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.10		Towards an Automatic Detection of Sensitive Information in a Database
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.11		PyKnow: Expert Systems for Python
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.12		Libsodium documentation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.13		Bindings and examples for using low-level libsodium functionality in Python
		150	150.14	54	A Quantifiable Trust Model for Blockchain-Based Identity Management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.15		A Reputation Management Framework for Knowledge-Based and Probabilistic Blockchains
		150	150.16	150.18	Sovrin Governance Framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.17		EWMA Control Charts
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.18		A Survey of Reputation and Trust Mechanism in Peer-to-Peer Network
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.19		About Feature Scaling and Normalization - and the effect of standardization for machine learning algorithms
		158	158.1	104	Privacy-preserving eid derivation for self-sovereign identity systems
		158	158.2	27.8	The Path to Self-Sovereign Identity
		158	158.3	104.8	Towards a privacy-preserving reliable european identity ecosystem
		158	158.4	104.10	Threshold signatures, multisignatures and blind signatures based on the gap-diffie-hellman-group signature scheme
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	158	158.5		Compact multi-signatures for smaller blockchains
		158	158.6	104.11	Short signatures from the weil pairing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	158	158.7		Bulletproofs: Short proofs for confidential transactions and more
		158	158.8	97.29	Internet X.509 public key infrastructure certificate and certificate revocation list (CRL) profil
		158	158.9	104.16	Pixel: Multi-signatures for consensus
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.10		Hyperledger ursa
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.11		Sovrin stewards
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.12		Transport layer security (TLS) extensions: Extension definition
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.13		TPL: A Trust Policy Language
		168	168.14	38	A survey on essential components of a self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.15		Usability engineering
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		168	168.17	37.32	Openid connect core 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.18		The power of proofs-of-possession: Securing multiparty signatures against rogue-key attacks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.19		Survey of consensus protocols on blockchain applications
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	168	168.20		X.509 internet public key infrastructure online certificate status protocol - OCSP

		158	158.21	30.80	Verifiable Credentials Data Model								
		158	158.22	37.29	Decentralized Identifiers (DIDs)								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	158	158.24		Aries rfc 0434: Out-of-band protocols								
		158	158.25	104.31	An overview of cloud identity management-models								
		175	175.1	27.8	The Path to Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.2		Decentralized Identity: What is at Stake? INATBA Position Paper								
		175	175.3	37.29	Decentralized Identifiers (DIDs)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.4		Bundesregierung: Digitale Identität - Personalausweis im Smartphone und mehr								
		175	175.5	145	Decentralized identity systems: Architecture, challenges, solutions and future directions								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.6		eSSIF-Lab Functional Architecture								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.10		Service providers' requirements for eID solutions: Empirical evidence from the leisure sector								
		175	175.11	124	Self-sovereign and Decentralized identity as the future of identity management?								
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		175	175.14	38	A survey on essential components of a self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.15		Online European Digital Identity Roundtable: Clear message in favour of a secure e-Identity for all Europeans!								
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Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	175	175.21		Key Event Receipt Infrastructure (KERI)	2019	Samuel M. Smith	arXiv.org			Yes	"A major flaw in the design of the Internet	"An identity system based secure overlay for the Internet is
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.22		EU leaders to call for an EU electronic ID by mid-2021								
		175	175.23	30.80	Verifiable Credentials Data Model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175	175.24		A mechanism for discovery and verification of trust scheme memberships: The LIGHTest Reference Architecture								
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		176	176.1	66.17	How to Share a Secret								
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		179	179.1	17	The inevitable rise of self-sovereign identity								
		179	179.2	30.80	Verifiable Credentials Data Model								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	179	179.4		Verifiable Credentials Implementation Guidelines								
		179	179.5	37.29	Decentralized Identifiers (DIDs)								
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		180	180.1	26	Self-Sovereign Identity								
		180	180.2	158	Revocable and Offline-Verifiable Self-Sovereign Identities								
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		180	180.14	158.13	TPL: A Trust Policy Language								
		180	180.15	219	Trust Me If You Can: Trusted Transformation Between (JSON) Schemas to Support Global Authentication of Education Credentials								
		180	180.16	37.29	Decentralized Identifiers (DIDs)								
		180	180.17	175.24	A Mechanism for Discovery and Verification of Trust Scheme Memberships: The Lightest Reference Architecture								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	180	180.18		A verified prover based on ordered resolution								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	180	180.19		Formalizing Bachmair and Ganzinger's Ordered Resolution Prover								
		180	180.20	30.80	Verifiable Credentials Data Model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	180	180.21		Accountable Trust Decisions: A Semantic Approach								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	180	180.23		Data Breaches, Phishing, or Malware?: Understanding the Risks of Stolen Credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	180	180.24		DNS-based Trust Scheme Publication and Discovery								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	180	180.26		Blockchain challenges and opportunities: a survey								
		180	180.27	104.31	An Overview of Cloud Identity Management-Models								
		181	181.1	27.8	The path to self-sovereign identity								
		181	181.2	60.2	The laws of identity								
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		181	181.6	68.8	A first look at identity management schemes on the blockchain								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	181	181.7		Focus groups, qualitative research practice								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.8		Personal data: thinking inside the box								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.19		Why a diagram is (sometimes) worth ten thousand words								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.20		The tangled web we have woven								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.21		Crossing the chasm								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.22		Human-data interaction: the human face of the data-driven society								
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		181	181.34	17	The inevitable rise of self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.35		Design patterns for mixed-method research in HCI								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	181	181.36		The Future of Social is personal: the Potential of the personal data store								
		181	181.37	35.2	Why Johnny can't encrypt: a usability evaluation of pgp 5.0								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	181	181.38		Big other: surveillance capitalism and the prospects of an information civilization								
		183	183.1	38	A survey on essential components of a self-sovereign identity								
		183	183.2	37.29	Decentralized Identifiers (DIDs)								
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Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	183	183.5		Marketing Dataveillance and Digital Privacy: Using Theories of Justice to Understand Consumers								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	183	183.6		Information technology and dataveillance								
		183	183.7	130.11	A Primer for Decentralized Identifiers - An introduction to self-administered identifiers for curious people								
		183	183.8	17	The inevitable rise of self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	183	183.9		DPKI: A Blockchain-Based Decentralized Public Key Infrastructure System								
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		183	183.12	30.80	Verifiable Credentials Data Model								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	183	183.14		Data entry: towards the critical study of digital data and education								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	183	183.15		Personal Information Exposure on Social Network Service								
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		184	184.1	104.19	Facebook security breach exposes accounts of 50 million users								
		184	184.2	68.8	A first look at identity management schemes on the blockchain								
		184	184.3	30.80	Verifiable credentials data model								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.4		Dynamic accumulators and application to efficient revocation of anonymous credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.5		Batching techniques for accumulators with applications to iops and stateless blockchains								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.6		One-way accumulators: A decentralized alternative to digital signatures								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.7		Accumulators with applications to anonymity-preserving revocation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.8		Trading accumulation size for witness size: A Merkle tree based universal accumulator via subset differences								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.12		The knowledge complexity of interactive proof systems								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.15		Efficiency limitations for σ-protocols for group homomorphisms								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.19		Self-sovereign identity: A comparison of irma and sovrin								
		184	184.20	17	The inevitable rise of self-sovereign identity								
		184	184.21	66.26	Hyperledger Indy								
		184	184.22	37.29	Decentralized identifiers (dids)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.23		Efficient zero-knowledge proof of algebraic and non-algebraic statements with applications to privacy preserving credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.24		How to prove yourself: Practical solutions to identification and signature problems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.25		Universal accumulators with efficient nonmembership proofs								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.27		Relay racing with x. 509 mayflies: An analysis of certificate replacements and validity periods in https certificate logs								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.28		Disposable dynamic accumulators: toward practical privacy-preserving mobile eids with scalable revocation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.29		Efficient asynchronous accumulators for distributed PKI								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	218	218.1		Helping users managing context-based privacy preferences								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	218	218.2		A data-driven approach to designing for privacy in household iot								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	218	218.3		Decentralised data processing: Personal data stores and the gdpr								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	218	218.5		Analyzing facebook privacy settings: User expectations vs. reality								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	218	218.7		Predicting personality from patterns of behavior collected with smartphones								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.1		A signature scheme with efficient protocols								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.2		Blockchain compliance by design: Regulatory considerations for blockchain in clinical research								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.3		Blockchains and Provenance: How a Technical System for Tracing Origins, Ownership and Authenticity Can Transform Social Trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.4		electronic signatures - scope and application								
		229	229.5	66.26	Hyperledger Indy								
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Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	229	229.7		ISO 15489-1:2016 - Information and documentation - Records management. Part 1: Concepts and Principles								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	229	229.8		ISO 30301:2019: Information and documentation - Management systems for records - Requirements								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.11		Preserving the archival bond in distributed ledgers: a data model and syntax								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.12		Consent Receipt V1.2 : A Notice Receipt Framework								
		229	229.13	66.17	How to share a secret								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.14		Facebook Didn't Sell Your Data; It Gave It Away								
		229	229.15	30.78	Sovrin: What goes on the ledger?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	229	229.16		Verifiable Credentials Implementation Guidelines 1.0								
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		229	229.18	111	Self-sovereign identity in a globalized world: Credentials-based identity systems as a driver for economic inclusion								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.2		Beamforming oriented topology control for mmwave networks								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.4		Bidapsca5g: Blockchain based internet of things (iot) device to device authentication protocol for smart city applications using 5g technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.5		xdbauth: Blockchain based cross domain authentication and authorization framework for internet of things								
		231	231.6	85	EverSSDI: blockchain-based framework for verification, authorisation and recovery of self-sovereign identity using smart contracts								
		231	231.7	58	Selfls: Self-Sovereign biometric IDs								
		231	231.8	58.40	A survey on identity management for the future network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.9		Id-service: A blockchain-based platform to support digital-identity-aware service accountability								
		231	231.10	68.29	sovrin								

		231	231.11	111	Self-sovereign identity in a globalized world: Credentials-based identity systems as a driver for economic inclusion
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.12		Linux foundation - decentralized innovation, built with trust
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.13		A comprehensive survey on attacks, security issues and blockchain solutions for iot and iiot
		231	231.14	115	A truly Self-Sovereign identity system
		231	231.15	101	Blockchain-based identity management systems: A review
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.16		Foundations and properties of shamir's secret sharing scheme research seminar in cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.17		Direct acyclic graph-based ledger for internet of things: performance and security analysis
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.18		Blockchain meets edge computing: A distributed and trusted authentication system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.19		Endogenous trusted ott-based service function chain orchestration for iot
		231	231.20	125	UPort open-source identity management system: An assessment of self-sovereign identity and user-centric data platform built on blockchain
		231	231.21	109.17	The horcrux protocol: A method for decentralized biometric-based self-sovereign identity
		231	231.22	72	DNS-IdM: A blockchain identity management system to secure personal data sharing in a network
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.23		The SelfKey foundation
		231	231.24	109.21	Shocard
		231	231.25	56	Sora identity: Secure, digital identity on the blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.26		litelD
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.27		A light-weight mutual authentication protocol for iot systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.28		World wide web consortium (W3C)
		231	231.29	97.69	Decentralized identifiers (DIDs)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.30		Improving the privacy of IoT with decentralised identifiers (DIDs)
		231	231.31	66.17	How to share a secret
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.32		A new (t,n) multi-secret sharing scheme based on shamir's secret sharing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.33		Wolfram MathWorld: The web's most extensive mathematics resource
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.34		Crowdsourcing low-power wide-area iot networks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.35		Enabling the internet of mobile crowdsourcing health things: A mobile fog computing, blockchain and iot based continuous glucose monitoring sys
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.36		How data will transform industrial processes: Crowdsensing, crowdsourcing and big data as pillars of industry 4.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.37		Smart cities: A survey on data management, security, and enabling technologies
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.38		Mobile crowdsourcing in smart cities: Technologies, applications, and future challenges
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.40		Performance analysis and comparison of pow, pos and dag based blockchains
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.41		When internet of things meets blockchain: Challenges in distributed consensus
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.42		Capture the flag simulation based on stride threat model
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.43		An entropy-based demonstration of the security of shamir's secret sharing scheme
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.44		Sumset and inverse sumset theory for shannon entropy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.45		Entropies of weighted sums in cyclic groups and an application to polar codes
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.46		Scalable data storage design for nonstationary iot environment with adaptive security and reliability
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.47		Remix - ethereum IDE
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	231	231.48		Ganache
		233	233.1	57.1	Identity Management: A Primer
		233	233.2	57.9	Trust requirements in identity management
		233	233.3	30.18	Digital Identity
		233	233.4	57.4	A comparative analysis of trust requirements in decentralized identity management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.5		Bitcoin's academic pedigree
		233	233.6	59	Blockchain-based identity management: A survey from the enterprise and ecosystem perspective
		233	233.7	20.60	Verifiable Credentials Data Model
		233	233.8	57.9	Virtual Collaboration Attribute Management
		233	233.9	57.6	Analyzing attribute aggregation models in federated identity management
		233	233.10	57.7	A conceptual model for attribute aggregation
		233	233.11	57.8	The trusted attribute aggregation service (TAAS) - Providing an attribute aggregation layer for federated identity management
		233	233.12	57.9	A hybrid model of attribute aggregation in federated identity management
		233	233.13	57.12	Attribute aggregating system for shibboleth based access management federation
		233	233.14	57.13	Attribute aggregation and federated identity
		233	233.15	57.14	Cross-domain authorization for federated virtual organizations using the myVocs collaboration environment
		233	233.16	68.32	Hyperledger Aries
		233	233.17	65.39	Hyperledger Indy
		233	233.18	63.12	Universal Resolver
		233	233.19	97.69	Decentralized Identifiers (DIDS)
		233	233.20	67.8	The Path to Self-Sovereign Identity
		233	233.21	12	The Inevitable Rise of Self-Sovereign Identity
		233	233.22	46.1	Bitcoin: A Peer-to-Peer Electronic Cash System
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.23		Misbehavior in bitcoin: A study of double-spending and accountability
		233	233.24	63.8	Ethereum: A Secure Decentralised Generalised Transaction Ledger
		233	233.25	58.6	Hyperledger Fabric
		233	233.26	16	A survey on essential components of a self-sovereign identity
		233	233.27	20.60	Verifiable Credentials Data Model
		233	233.28	26.9	Uport: A Platform for Self-Sovereign Identity
		233	233.29	53.7	Jolocom
		233	233.30	109.21	Shocard
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.31		Blockchain Helix
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.32		Review on computational trust and reputation models
		233	233.33	27.66	A survey of trust and reputation systems for online service provision
		233	233.34	57	Using probabilistic attribute aggregation for increasing trust in attribute assurance
		233	233.35	37.32	Openid connect core 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.36		Saml Version 2.0
		233	233.37	148.10	Introduction to Did Auth
		233	233.38	58.9	Decentralized Identity Foundation
		233	233.39	53	An integration architecture to enable service providers for self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.40		Tornado
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.41		Pyobc
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.42		Pysaml2
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.43		Rinkeby
		233	233.44	68.32	Hyperledger Aries
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.45		Verifiable Organization Network
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.46		Information Technology—Automatic Identification and Data Capture Techniques—Bar Code Symbology—QR Code
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.47		rfc7519
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.48		Locust
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.49		Attack trees
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.50		Prevent session hijacking by binding the session to the cryptographic network credentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	233	233.51		Nemesis: Preventing authentication & access control vulnerabilities in web applications
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.1		Privacy under attack: the nsa files revealed new threats to democracy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.2		Facebook to pay record 5bn to settle privacy concerns
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	251	251.3		World education services
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.4		Verimi
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.5		Cambridge analytica: Ethics and online manipulation with decision-making process
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.6		Corporate director's and officer's cybersecurity standard of care: the yahoo data breach
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.7		A case study analysis of the equifax data breach 1 a case study analysis of the equifax data breach
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.8		Challenges of general data protection regulation (gdpr)
		251	251.9	60	In search of self-sovereign identity leveraging blockchain technology
		251	251.10	19	A survey on essential components of a self-sovereign identity
		251	251.11	61	Self-sovereign identity solutions: The necessity of blockchain technology
		251	251.12	17	The inevitable rise of self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.13		H. I. Community
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.14		Trusted execution environment: What it is and what it is not
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.15		SCONE: Secure linux containers with intel SGX
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.16		Scone
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.17		Overview andapplications of zero knowledge proof (zkp)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.18		Man in the middle attacks: Analysis motivation and prevention
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.19		Scone file shield
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.20		Intel sgx explained
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.21		Integrating remote attestation with transport layer security
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.22		Cas overview
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.23		Everything you should know about intel sgx performance on virtualized systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.24		A comparison of performance and implementation complexity of multithreaded applications in rust java and c++
		251	251.25	53	An integration architecture to enable service providers for self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.26		Anonymous credentials in web applications — a child's play with the prime core
		251	251.27	45.10	Design and implementation of the idemix anonymous credential system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.28		Blockchain for academic credentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.29		Blockchain and the future of digital learning credential assessment and management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.30		Privacy-preserving blockchain-based systems for car sharing leveraging zero-knowledge protocols
		251	251.31	68.32	Hyperledger aries
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.32		Graphene-sgx: A practical library os for unmodified applications on sgx
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	251	251.33		Trust management as a service: Enabling trusted execution in the face of byzantine stakeholders
		254	251.1	60	In search of self-sovereign identity leveraging blockchain technology
		254	251.2	129	A subject-centric credential management method based on the verifiable credentials
		254	251.3	158.16	Security assertion markup language (saml) v2.0 technical overview
		254	251.4	58.33	The oauth 2.0 authorization framework
		254	251.5	37.32	Openid connect core 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.6		Ten risks of pki: What you're not being told about public key infrastructure
		254	251.7	97.69	Decentralized identifiers (dids)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.8		A survey on security issues of federated identity in the cloud computing
		254	251.9	30.22	The venn of identity: Options and issues in federated identity management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.10		Self-Sovereign Identity: Decentralized digital identity and verifiable credentials
		254	251.11	125	uport open-source identity management system: An assessment of self-sovereign identity and user-centric data platform built on blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.12		Self-sovereign identity: Use-cases technologies and challenges for industrial iot
		254	251.13	66	Self-sovereign identity on public blockchains and the gdpr
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.14		Microsoft identity overlay network
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.15		Blockchain platforms: A compendium
		254	251.16	68.32	Hyperledger aries
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.17		Let's initiate self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.18		Self - solution about associates contact
		254	251.19	20.60	Verifiable credentials data model
		254	251.20	148.10	Introduction to did auth
		254	251.21	338	Vaultpoint: A blockchain-based ssi model that complies with oauth 2.0
		254	251.22	53	An integration architecture to enable service providers for self-sovereign identity
		254	251.23	148	Distributed-ledger-based authentication with decentralized identifiers and verifiable credentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.24		A replay attack resilient system for pki based authentication in challenge–response mode for online application
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	254	251.25		Cross-browser QRCode generator for javascript
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.1		What is Self-Sovereign Identity?
		263	263.2	130.1	Fixing the five problems of internet identity
		263	263.3	17	The inevitable rise of self-sovereign identity
		263	263.4	249	Sovrin Network for decentralized digital identity: Analysing a self-sovereign identity system based on distributed ledger technology
		263	263.5	130	Self-Sovereign Identity Specifications: Govern your identity through your digital wallet using blockchain technology
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.6		A system security engineering process
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.7		Toward a secure system engineering methodolgy
		263	263.8	233.49	Attack Trees
		263	263.9	125	uPort open-source identity management system: An assessment of self-sovereign identity and user-centric data platform built on blockchain
		263	263.10	249	Does Sovrin Network offer sovereign identity?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.11		Self-Sovereign Identity: The ultimate beginners guide!
		263	263.12	130.8	An analysis of open standard identity protocols in cloud computing security paradigm
		263	263.13	130.3	A secure mobile cloud identity: Criteria for effective identity and access management standards
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.14		A primer for Decentralized Identifiers
		263	263.15	20.60	Sovrin: A protocol and token for self-sovereign identity and decentralized trust
		263	263.16	224	Your identity is yours: Take back control of your identity using GDPR compatible self-sovereign identity
		263	263.17	130	Governing principles of self-sovereign identity applied to blockchain enabled privacy preserving identity management systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.18		Securing digital identities in the cloud by selecting an apposite federated identity management from SAML OAuth and OpenID Connect
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.19		Why decentralized encryption key management for mobile is dangerous
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.20		Spoooooky types of identity fraud
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.21		5 Identity attacks that exploit your broken authentication
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	263	263.22		The many different forms of identity theft
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.1		Choosing an nlp library for analyzing software documentation: a systematic literature review and a series of experiments
		267	267.2	97.9	The path to self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.3		An efficient system for nontransferable anonymous credentials with optional anonymity revocation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.4		Federated identity management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.5		Facebook Database Engineering Team: Rocksdb
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.6		spaCy: Industrial-strengh Natural Language Processing in Python
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.7		The domino effect of password reuse
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.8		Identity metasystem interoperability version 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.9		Guidelines for performing systematic literature reviews in software engineering
		267	267.10	59	Blockchain-based identity management: a survey from the enterprise and ecosystem perspective
		267	267.11	43	Blockchain technology the identity management and authentication service disruptor: a survey
		267	267.12	68	Full-text search for verifiable credential metadata on distributed ledgers
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.13		Efficient estimation of word representations in vector space
		267	267.14	16	A survey on essential components of a self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.15		Systematic Reviews in the Social Sciences: A Practical Guide
		267	267.16	37.32	Openid connect core 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.17		Hyperledger indy transaction explorer
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.18		Sovrin
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.19		Write To The Sovrin Public Ledger
		267	267.20	30.78	Sovrin: what goes on the ledger?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	267	267.21		Sovrin main net
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.1		Towards a reference architecture for trusted data marketplaces: The credit scoring perspective
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.2		A survey on FinTech
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.3		Normative challenges of identification in the Internet of Things: Privacy, profiling, discrimination, and the GDPR
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.4		What the GDPR means for businesses
		285	285.5	66	Self-sovereign identity on public blockchains and the GDPR
		285	285.6	101	Blockchain-based identity management systems: A review
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.7		Uport: A platform for self-sovereign identity draft version
		285	285.8	97.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust

		284	285.9	37.28	Decentralized identifiers (DIDs)					
		284	285.10	30.80	Verifiable credentials data model					
		284	285.11	60.2	The laws of identity					
		284	285.12	56	A survey on essential components of a self-sovereign identity					
		284	285.13	15	Deployment of a Blockchain-Based Self-Sovereign Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.14		PrivBox: Verifiable decentralized reputation system for online marketplaces					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.15		How to Aggregate the CL Signature Scheme					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.16		Pseudonym Systems					
		285	285.17	184.12	The Knowledge Complexity of Interactive Proof Systems					
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.19		An Introduction to the Use of zk-SNARKs in Blockchains					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.20		Succinct Non-interactive Arguments via Linear Interactive Proof					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.21		Explaining SNARKs					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.22		How Sovrin works					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.23		A Blockchain-Based distributed network for Secure Credit Scoring					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.24		KIRTI: A Blockchain-based Credit Recommender System for Financial Institutions					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.25		Blockchain-Based Identity Authentication and Intelligent Credit Reporting					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	285	285.26		A Blockchain based Credit Analysis Framework for Efficient Financial Systems					
		285	285.27	229.1	A Signature Scheme With Efficient protocols					
		285	285.28	30.29	Regulation 2016/679 of the European parliament and the Council of the European Union					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	286	286.29		Ligero: Lightweight Sublinear Arguments Without a Trusted Setup					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	286	286.30		Sonic:Zero-Knowledge SNARKs from Linear-Size Universal and Updatable Structured Reference Strings					
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Exclude (Does not satisfy neither IC-1 nor IC-2)		287	287.3		How eIDAS can legally support digital identity and trustworthy DLT-based transactions in the Digital Single Market					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	287	287.4		Help Shape a Safe and Secure Next Generation Internet					
		287	287.5	113.45	eIDAS regulation (EU) no 910/2014 of the european parliament and of the council of 23 july 2014 on electronic identification and trust services for					
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		287	287.7	68.32	Hyperledger aries					
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		287	287.11	150.3	Anonymous Credential Protocol					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	287	287.12		The Decentralized Identifier (DID) in the DNS					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	287	287.13		European Health Insurance Card v0.1					
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		287	287.17	30.80	Verifiable Credentials Data Model					
		287	287.18	175.25	Usability of Policy Authoring Tools: A Layered Approach					
		290	290.1	29	Self-sovereign identity					
		290	290.2	164	Privacy-preserving eid derivation for self-sovereign identity systems					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	290	290.3		Alastria Builds Future					
		290	290.4	184.5	Batching techniques for accumulators with applications to iops and stateless blockchains					
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Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	290	290.6		Trustzone-based secure lightweight wallet for hyperledger fabric					
		290	290.7	328	BBM: A blockchain-based model for open banking via self-sovereign identity					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	290	290.8		dizme					
		290	290.9	93	A survey on blockchain-based self-sovereign patient identity in healthcare					
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Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	290	290.11		A novel mobile wallet model for elderly using fingerprint as authentication factor					
		290	290.12	53.7	Jobcoin					
		290	290.13	56	Self-sovereign identity on public blockchains and the gdpr					
		290	290.14	184.25	Universal accumulators with efficient nonmembership proofs					
		290	290.15	592	Design pattern as a service for blockchain-based self-sovereign identity					
		290	290.16	324	Distributed ledger technologies, value accounting, and the self-sovereign identity					
		290	290.17	130	Self-sovereign identity specifications: Govern your identity through your digital wallet using blockchain technology					
		290	290.18	57.22	Nist special publication 800-63-3					
		290	290.19	30.80	Verifiable Credentials Data Model					
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		290	290.21	30.80	Verifiable credentials data model					
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		290	290.23	37.28	Decentralized Identifiers (DIDs)					
		290	290.24	104.31	An overview of cloud identity management-models					
		296	296.1	27.8	The Path to Self-Sovereign Identity					
		296	296.2	37.3	Decentralized Public Key Infrastructure					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.3		BTCR DID Method					
		296	296.4	104.6	RBFT: redundant byzantine fault tolerance					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.5		Anonymous attestation using the strong Diffie Hellman assumption revisited					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.6		An accumulator based on bilinear maps and efficient revocation for anonymous credentials					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.7		An efficient system for non-transferable anonymous credentials with optional anonymity revocation					
		296	296.8	229.1	A signature scheme with efficient protocols					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.9		Bitcoin, Blockchain & Distributed Ledgers: Caught Between Promise and Reality					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.10		SSI Metrics Dashboard					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.11		Indy Node Monitor					
		296	296.12	68.53	Aries RFC 0037: Present Proof Protocol 1.0					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.13		Short randomizable signatures					
		296	296.14	37.28	Decentralized Identifiers (DIDs)					
		296	296.15	126.18	Sovrin Governance Framework					
		296	296.16	158.11	Sovrin Stewards					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.17		Sovrin Transaction Endorser Agreement					
		296	296.18	30.80	Verifiable Credentials Data Model					
		296	296.19	37.36	Veres One DID Method Specification					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	296	296.20		Origins and Principles of SSI					
		301	301.1	40	In search of self-sovereign identity leveraging blockchain technology					
		301	301.2	128	Self-sovereign identity for iot environments: A perspective					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.3		Swarm os control plane: an architecture proposal for heterogeneous and organic networks					
		301	301.4	37.28	Decentralized identifiers (DIDs)					
		301	301.5	267.3	DIDComm Messaging Specification					
		301	301.6	160.22	Did specification registries					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.7		Secure decentralized machine identifiers for internet of things					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.8		Enabling opportunistic users in multi-tenant iot systems using decentralized identifiers and permissioned blockchains					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	301	301.9		Enabling decentralised identifiers and verifiable credentials for constrained internet-of-things devices using oauth-based delegation	2019	Lagutin, Dmitrij and Kot Workshop on Decentral		No	"but using DIDs and VCs directly on const "This paper presents an OAuth-based method to delegate tl
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.10		OCF					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.11		Web of Things (WoT) Security and Privacy Guidelines					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.12		Sovrin DID Method Specification					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.13		Tangled DID Method Specification					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.14		Ockam DID Method Specification					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.15		CBOR Object Signing and Encryption (COSE)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.16		JSON Object Signing and Encryption (JOSE)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301	301.17		Iotex DID Method Specification					
		301	301.18	37.36	Veres one DID Method Specification					
		307	307.1	69.18	A Technology Free Definition of Self-Sovereign Identity					
		307	307.2	78	Designing the future identity: authentication and authorization through self-sovereign identity					
		307	307.3	742	Blockchain-Based Verifiable Credential Sharing with Selective Disclosure					
		307	307.4	40	A New Approach to Client Onboarding Using Self-Sovereign Identity and Distributed Ledger					
		307	307.5	27.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust					
Exclude (Does not satisfy neither IC-1 nor IC-2)		308	308.1		Trusted Third Party					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.2		Blockchain Based Smart Contracts : A Systematic Mapping Study					
		308	308.3	100.8	Blocktack Technical Whitepaper					
		308	308.4	27.8	The Path to Self-Sovereign Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.5		Attribute Based Credentials - Privacy Patterns					
		308	308.6	45.20	Ciphertext-Policy Attribute-Based Encryption					
		308	308.7	45.10	Design and Implementation of the Idemix Anonymous Credential System					
		308	308.8	37.28	Decentralized Identifiers (DIDs)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.9		eSSIF-Lab Glossary					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.10		Assessment of attribute-based credentials for privacy-preserving road traffic services in smart cities					
		308	308.11	184.12	The Knowledge Complexity of Interactive Proof Systems					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.12		Attribute-Based Encryption for Fine-Grained Access Control of Encrypted Data					
		308	308.13	58.33	The OAuth 2.0 Authorization Framework					
		308	308.14	69.20	Hyperledger Indy					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.15		Business Innovation Through Blockchain The B² Perspective					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.16		Multiple encryption					
		308	308.17	184.19	Self-Sovereign Identity: A Comparison of IRMA and Sovrin					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.18		OpenID Connect					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.19		Fuzzy Identity Based Encryption					
		308	308.20	100	Self-sovereign identity systems: Evaluation framework					
Exclude (Does not satisfy neither IC-1 nor IC-2)		308	308.21		Zero-Knowledge					
		308	308.22	16	Self-Sovereign Identity					
		308	308.23	66.17	How to Share a Secret					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.24		Identity-Based Cryptosystems and Signature Schemes					
		308	308.25	203.21	ShoCard					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.26		Symmetric and Asymmetric Encryption					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.27		Factom Business Processes Secured by Immutable Audit Trails on the Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.28		Hands-On Smart Contract Development with Solidity and Ethereum: From Fundamentals to Deployment					
		308	308.29	27.37	Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust					
		308	308.30	30.80	Verifiable Credentials Data Model					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.31		Stacks					
		308	308.32	30.77	Formalizing and Securing Relationships on Public Networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.33		IRMA					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.34		U-Prove					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.35		What is IRMA?					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.36		What is OpenID?					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.37		Application of Blockchain Technology in Sustainable Energy Systems: An Overview					
		308	308.38	175.26	Verifiable Credentials Flavors Explained					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.39		Zero-knowledge proofs					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	308	308.40		An overview on smart contracts: Challenges, advances and platforms					
		315	315.1	37.3	Decentralized public key infrastructure					
		315	315.2	27.8	The Path to Self-Sovereign Identity					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	315	315.3		Metaphysics					
		315	315.4	18	Towards self-sovereign identity using blockchain technology					
		315	315.5	368	SSIBAC: Self-Sovereign Identity Based Access Control					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.6		Establishing and protecting digital identity in federation systems					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.7		Deanonymization and linkability of cryptocurrency transactions based on network analysis.					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.8		Space/time trade-offs in hash coding with allowable errors					
		315	315.9	35.18	Evaluating 2-DNF formulas on ciphertexts					
		315	315.10	60.2	The laws of identity					
		315	315.11	113.14	Let's find a more accurate term than 'self-sovereign identity'					
		315	315.12	30.19	Digital Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.13		Secure routing for structured peer-to-peer overlay networks					
		315	315.14	267.4	Federated identity management					
		315	315.15	69	Self-sovereign identity - opportunities and challenges for the digital revolution					
		315	315.16	27.64	The sybil attack					
		315	315.17	113.45	eIDAS regulation (EU) no 910/2014 of the european parliament and of the council of 23 july 2014 on electronic identification and trust services for					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	315	315.18		Proposal for a regulation of the european parliament and of the council on a temporary derogation from certain provisions of directive 2002/58/ec					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	315	315.19		Proposal for a regulation of the european parliament and of the council amending regulation (eu) no 910/2014 as regards establishing a framewo					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	315	315.20		Regulation of the european parliament and of the council amending regulation (eu) no 910/2014 as regards establishing a framework for a europe					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.21		Cuckoo filter: Practically better than bloom					
		315	315.22	40	In search of self-sovereign identity leveraging blockchain technology					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.23		The effect of data breaches on shareholder wealth					
		315	315.24	117.8	Proofs that yield nothing but their validity or all languages in np have zero-knowledge proof systems					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	315	315.25		Glossary					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.26		Counterclockwise: RAM capacity through the years					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.27		Strikbeerger's evolution					
		315	315.28	171	Vision: A critique of immunity passports and w3c decentralized identifiers					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.29		Report your lost or stolen passport					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.30		Blockchain research, practice and policy: Applications, benefits, limitations, emerging research themes and research agenda					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.31		IANA					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.32		Consumer Attitudes Towards Data Privacy					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.33		Identification and authentication					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.34		IT Security and Privacy — A framework for identity management — Part 1: Terminology and concepts					
		315	315.35	308.33	IRMA					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.36		ISO/IEC 27001 INFORMATION SECURITY MANAGEMENT					
		315	315.37	20.47	User Centric Identity Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.38		Whotracks. me: Shedding light on the opaque world of online tracking					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.39		Basic practice of 2d codes					
		315	315.40	69.20	Sovrin: digital identities in the blockchain era					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.41		Efficient Zero-Knowledge Range Proofs in Ethereum					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.42		Big data's impact on privacy, security and consumer welfare					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.43		THE3RDANNUAL GLOBAL PASSWORDSECURITY REPORT					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.44		What is "Sovereign Source Authority"?					
		315	315.45	40	Self-Sovereign Identity					
		315	315.46	26.9	Uport: A platform for self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.47		Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.48		What is Industry 4.0? Everything you need to know					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.49		Announcing Facebook Connect					
		315	315.50	56	A survey on essential components of a self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.51		Using an electronic signature					

		315	315.52	315.47	Identity								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	315	315.53		Personal Identity								
		315	315.54	109.17	The Horcrux Protocol: A Method for Decentralized Biometric-based Self-sovereign Identity								
		315	315.55	35.6	TrustChain: A Sybil-resistant scalable blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.56		An overview of cryptographic accumulators								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.57		Payment Card Industry Data Security Standard								
		315	315.58	35.11	An efficient range proof scheme								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.59		Federated identity-management protocols								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	315	315.60		Sovereignty								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.61		Security analysis methods on ethereum smart contract vulnerabilities: A survey								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.62		Microsoft Passport: Streamlining Commerce and Communication on the Web								
		315	315.63	251.10	Self-sovereign identity: Decentralized digital identity and verifiable credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.64		Irmain detail								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.65		Using electronic signatures in the netherlands during the covid-19 crisis								
		315	315.66	110.7	Openid 2.0: A platform for user-centric identity management								
		315	315.67	26.4	The Technical Foundations of Sovrin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.68		Deplatforming: Following extreme internet celebrities to telegram and alternative social media								
		315	315.69	113.15	7 Myths of Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.70		On the misattribution in Allen								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.71		Top social login tools compared								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.72		Security considerations for peer-to-peer distributed hash tables								
		315	315.73	37.37	Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.74		Sovrin SSI & IoTWorking Group Charter								
		315	315.75	113	Self-Sovereign Identity: Proving Power over Legal Entities								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.76		SQLite								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.77		Mobile & tablet android version market share worldwide								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	315	315.78		A theory of oligopoly								
		315	315.79	115	A Truly Self-Sovereign Identity System								
		315	315.80	35	Deployment of a blockchain-based self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.81		2020 ThalesData Threat Report								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.82		Duckduckgo tracker radar exposes hidden tracking								
		315	315.83	30.29	Regulation 2016/679 of the European parliament and the Council of the European Union								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	315	315.84		Govern								
		315	315.85	17	The inevitable rise of self-sovereign identity								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	315	315.86		How many people have smartphones worldwide								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.87		uPort Developer Portal								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.88		2020 Data Breach Investigations Report								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.89		User-centric identity management using trusted modules								
		315	315.90	37.29	Decentralized identifiers (dids)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.91		Finding collisions in the full sha-1								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.92		Identification for Development Strategic Framework								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.93		ID4D Data: Global Identification Challenge by the Numbers								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	315	315.94		Why china had to ban cryptocurrency but the us did not: A comparative analysis of regulations on crypto-markets between the us and china								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.95		Where is current research on blockchain technology?—a systematic review								
		315	315.96	85	EverSSDI: Blockchain-based framework for verification, authorisation and recovery of self-sovereign identity using smart contracts								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	315	315.97		Osi reference model-the iso model of architecture for open systems interconnection								
		323	323.1	27.8	The path to self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.2		The identity crisis. security, privacy and usability issues in identity management								
		323	323.3	30.29	Regulation 2016/679 of the European parliament and the Council of the European Union								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.4		Backup and recovery of irma credentials								
		323	323.5	60	In search of self-sovereign identity leveraging blockchain technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.6		What if i lose my phone?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.7		4 keys to self-sovereign identity adoption								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.8		User data privacy: Facebook, cambridge analytica, and privacy protection								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.9		Towards data assurance and resilience in iot using blockchain								
		323	323.10	35.6	Trustchain: A sybil-resistant scalable blockchain								
		323	323.11	113.10	Trustchain protocol								
		323	323.12	115	A truly self-sovereign identity system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.13		Backup scheduling in clustered p2p network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.14		Ipv8								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	323	323.15		Trustchain super app								
		323	323.16	81	Self-sovereign identity solutions: The necessity of blockchain technology								
		324	324.1	109	An identity management and authentication scheme based on redactable blockchain for mobile networks								
		324	324.2	161	Securing emission data of smart vehicles with blockchain and self-sovereign identities								
		324	324.3	251.10	Self-Sovereign Identity: Decentralized digital identity and verifiable credentials								
		324	324.4	27.8	The path to self-sovereign identity								
		324	324.5	60	In search of self-sovereign identity leveraging blockchain technology								
		324	324.6	38	A survey on essential components of a self-sovereign identity								
		324	324.7	135	A comparative survey on blockchain based self sovereign identity system								
		324	324.8	63	Analysis of identity management systems using blockchain technology								
		324	324.9	65	Self-sovereign digital identity: A paradigm shift for identity								
Include (Satisfies IC-1 The paper includes a novel co	Include (Satisfies IC-1 The paper includes a novel	324	324.10		Principles of ssi	Sovrin	2021	website	Verifiability, Decentralizati		No		
		324	324.11	69	Privacy-preserving solutions for blockchain: Review and challenges								
		324	324.12	87	Decentralized identity: Where did it come from and where is it going?								
		324	324.13	68.8	A first look at identity management schemes on the blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	324	324.14		Self-sovereign identities for fighting the impact of covid-19 pandemic								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	324	324.15		Self-sovereign identity: A position paper on blockchain enabled identity and the road ahead								
		324	324.16	17	The inevitable rise of self-sovereign identity								
		324	324.17	35	Deployment of a blockchain-based self-sovereign identity								
		324	324.18	40	A new approach to client onboarding using self-sovereign identity and distributed ledger								
		324	324.19	81	Self-sovereign identity solutions: The necessity of blockchain technology								
		324	324.20	66	Practical key recovery model for self-sovereign identity based digital wallets								
		324	324.21	263.17	Governing principles of self-sovereign identity applied to blockchain enabled privacy preserving identity management systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	324	324.22		Private key encryption and recovery in blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	324	324.23		Use cases and requirements for decentralized identifiers								
		324	324.24	37.29	Decentralized identifiers (dids)								
		324	324.25	30.80	Verifiable credentials data model								

First Iteration - Forward Snowballing													
Researchers Evaluation						Data Extraction Form							
Schardong	Custódio	From ID	Paper ID	Duplicate of	Title	Year	Authors	Published in	Add Concept	Remove Concept	Formal Model	Novel Problem	Proposed Solution
REVIEW RESULT	EVALUATE RESULT												
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1001		Decentralized Identity Management for a Maritime Digital Infrastructure: With focus on usability and data integrity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1002		Connecting Disparate Data								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1003		An Architecture for Easy Onboarding and Key Life-Cycle Management in Blockchain Applications								
		26	26.1004	100	Self-Sovereign Identity Systems Evaluation framework								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1005		A Business Process Model for Blockchain-based South African Real Estate Transactions								
		26	26.1006	26	Importing National eID attributes into a decentralized IdM System								
		26	26.1007	99	SSI-AWARE: Self-sovereign Identity Authenticated Backup with Auditing by Remote Entities								
		26	26.1008	100	Self-Sovereign Identity Systems								
		26	26.1009	74	Self-Sovereign Identity Systems Opportunities and challenges								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1010		eGovernance and Digital Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1011		Towards a Blockchain based digital identity verification, record attestation and record sharing system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1012		Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey								
		26	26.1013	135	A Comparative Survey on Blockchain Based Self Sovereign Identity System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1014		Privacy Preserving Middleware Platform for IoT								
		26	26.1015	162	SELF SOVEREIGN IDENTITY BASED MUTUAL GUARDIANSHIP								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1016		EGOVERNANCE A DIGITÁLNI IDENTITA eGovernance and Digital Identity Diplomová práce								
		26	26.1017	266	A survey of self-sovereign identity ecosystem								
		26	26.1018	291	Identity and access management using distributed ledger technology: A survey								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1019		How Blockchain Can Automate KYC: Systematic Review								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	26	26.1020		Blockchain Technology Adoption in the South African Financial Service Sector: Perceived Advantages, Challenges and Potential Use Cases								
		27	27.1001	85	EverSSDI: blockchain-based framework for verification, authorisation and recovery of self-sovereign identity using smart contracts								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.1002		Anonymity: A Secure Identity Management Using Smart Contracts								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.1003		FogAuthChain: A secure location-based authentication scheme in fog computing environments using Blockchain								
		27	27.1004	182	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain Technology								
		27	27.1005	146	Designing an academic electronic identity management system for student mobility using eIDAS eID and Self-Sovereign Identity technologies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	27	27.1006		Forget-me-block: Exploring digital preservation strategies using Distributed Ledger Technology in the context of personal information managemen								
		27	27.1007	256	Hierarchical Deterministic protocol for the defragmentation of identity in a blockchain-based framework								
		27	27.1008	182	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain Technology								
		30	30.1001	35	Deployment of a blockchain-based self-sovereign identity								
		30	30.1002	111	Self-sovereign identity in a globalized world: Credentials-based identity systems as a driver for economic inclusion								
		30	30.1003	191	Decentralized, Self-Sovereign, Consortium: The Future of Digital Identity in Canada								
		30	30.1004	162	SELF SOVEREIGN IDENTITY BASED MUTUAL GUARDIANSHIP								
		34	34.1001	57.4	A comparative analysis of trust requirements in decentralized identity management								
		34	34.1002	53	An Integration Architecture to Enable Service Providers for Self-sovereign Identity								
		34	34.1003	101	Blockchain-based identity management systems: A review								
		34	34.1004	123	Decentralized Identity and Trust Management Framework for Internet of Things								
		34	34.1005	150	Enhancing the Security and Privacy of Self-Sovereign Identities on Hyperledger Indy Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.1006		AMVchain: authority management mechanism on blockchain-based voting systems								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	34	34.1007		SSI eIDAS Legal Report								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.1008		A Taxonomy of Trust Models for Attribute Assurance in Identity Management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.1009		Blockchain in the energy sector. An analysis of the Brooklyn case								
		34	34.1010	305	An Identity Asset Sensitivity Model in Self-Sovereign Identities								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.1011		A Decentralised Website Login System using 'Decentralized Identifiers'								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	34	34.1012		Sustainability, Trust and Blockchain Applications: Best Practices and Fintech Prospects								
		34	34.1013	34.1006	AMVchain: authority management mechanism on blockchain-based voting systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1001		Blockchain and biometrics: A first look into opportunities and challenges								
		35	35.1002	60	In search of self-sovereign identity leveraging blockchain technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1003		DeepRing: Protecting deep neural network with blockchain								
		35	35.1004	59	Blockchain-based identity management: A survey from the enterprise and ecosystem perspective								
		35	35.1005	81	Self-sovereign identity solutions: The necessity of blockchain technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1006		Securing CNN model and biometric template using blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1007		Blokzincir teknolojisinin dijital kimlik yönetiminde kullanımı: bir sistematik haritalama çalışması								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1008		Devid: Blockchain-based portfolios for software developers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1009		An Overview on Blockchain for Smartphones: State-of-the-Art, Consensus, Implementation, Challenges and Future Trends								
		35	35.1010	82	SIMS: Self-Sovereign Identity Management System with Preserving Privacy in Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1011		A case study on the decentralisation of lifelong learning using blockchain technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1012		BEMPAS: A Decentralized Employee Performance Assessment System Based on Blockchain For Smart City Governance								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1013		Mobile Identity, Credential, and Access Management Framework								
		35	35.1014	101	Blockchain-based identity management systems: A review								
		35	35.1015	123	Decentralized Identity and Trust Management Framework for Internet of Things								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1016		An overview of limitations and approaches in identity management								
		35	35.1017	107	Design Pattern as a Service for Blockchain-Based Self-Sovereign Identity								
Include (Satisfies IC-2 The research work makes prac	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1018		A zero-knowledge-proof-based digital identity management scheme in blockchain	2020	Yang, Xiaohui Li, Wenji	Computers & Security			Yes	"how to prevent the ownership of privacy a	"We design a challenge-response protocol that allows the us
		35	35.1019	102	BBM: A Blockchain-Based Model for Open Banking via Self-sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1020		Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1021		Adversary detection tool								
		35	35.1022	35.1011	Blockchain Applications in Education: A Case Study in Lifelong Learning								
		35	35.1023	115	A Truly Self-Sovereign Identity System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1024		Digital Identity Management System Using Blockchain Technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1025		Grundbuch ex machina								
		35	35.1026	35.1025	Grundbuch ex machina: Eine kritische Untersuchung zum Einsatz der Blockchain im Grundbuchwesen								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1027		Estudio y evaluación de la identidad digital en Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1028		Smart contracts on the blockchain - a bibliometric analysis and review								
		35	35.1029	211	Self-sovereign Identity framework development in compliance with Self sovereign Identity principles using components								
		35	35.1030	142	Blockchain-based Verifiable Credential Sharing with Selective Disclosure								
		35	35.1031	231.9	ID-Service: A Blockchain-Based Platform to Support Digital-Identity-Aware Service Accountability								
		35	35.1032	138	A survey on blockchain-based identity management and decentralized privacy for personal data								
		35	35.1033	26.1012	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1034		COVID-19 Contact Tracing using Blockchain								
		35	35.1035	168	Sovereignty, privacy, and ethics in blockchain-based identity management systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1036		Xchange: A universal mechanism for asset exchange between permissioned blockchains								
		35	35.1037	207	Self-sovereign identity and forced migration: slippery terms and the refugee data apparatus								
		35	35.1038	137	A Study on Strengthening Personal Information Sovereignty through Analysis of Domestic Service Cases and Research Projects of Self-Sovereig								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	35	35.1039		Blockchain-Driven Identification Procedures in the Migration Context: Regulatory Challenges and Fundamental Rights Issues								
		35	35.1040	196	Identity of Things: Applying concepts from Self Sovereign Identity to IoT devices								
		35	35.1041	201	Privacy-Preserving PayString Service								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1042		A proposal for the use of blockchain in the portuguese voting system								
		35	35.1043	135	A Comparative Survey on Blockchain Based Self Sovereign Identity System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1044		Opportunities and challenges for self-sovereign identity in the public sector: a case of Belgium								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1045		Trusted Digital Identities for Mobile Devices								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1046		Effectiveness of Blockchain Advancement in Patient Statistical Monitoring Network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1047		Universal Identity and Access Management Framework for Future Ecosystems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1048		Changing perceptions of biometric technologies								
		35	35.1049	177	A proposed approach for Digital Identity management using Self Sovereign Identity								
		35	35.1050	221	With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1051		ConTrib: Maintaining fairness in decentralized big tech alternatives by accounting work								
		35	35.1052	34.1007	SSI eIDAS Legal Report								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1053		Emerging Digital Technologies to Combat Future Crises: Learnings From COVID-19 to be Prepared for the Future								
Exclude (EC-1 The research work is not in the area o	Exclude (EC-1 The research work is not in the are	35	35.1054		COVID-19 vaccination and test evidence								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1055		Estudio y evaluation de la identidad digital en Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1056		eDIS–Electronic Diploma Integrity Service								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1057		Adoption of Blockchain Technology through Digital Twins in the Construction Industry 4.0: A PESTELS Approach								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1058		"Trust Pass"-Blockchain-Based Trusted Digital Identity Platform Towards Digital Transformation								
		35	35.1059	324	Towards the classification of Self-Sovereign Identity properties								
		35	35.1060	262	Self-Sovereign Identity for the Financial Sector: A Case Study of PayString Service								
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	35	35.1061		Privacy-preserving Identity Management System	2021	Jeonghyuk Lee, Jaekyu	iacr			Yes	"if complex computations rather than sele	"we propose a privacy-preserving self-sovereign identity mo
		35	35.1062	285	Verifiable Credential Proof Generation and Verification Model for Decentralized SSI-Based Credit Scoring Data								

Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	25	35.1063		Blockchain Impact of Security and Privacy in Digital Identity Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	25	35.1064		Yes, I Do: Marrying Blockchain Applications with GDPR					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	25	35.1065		Secure De-identification and Data Sovereignty Management of Decentralized SSI using Restructured ZKP					
		26	35.1066	317	On the Usability of Self Sovereign Identity Solutions					
		29	35.1067	306	Blockchain-Based Self-Sovereign Identity: Survey, Requirements, Use-Cases, and Comparative Study					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30	35.1068		The Impact of Vote Counting Policy on the Performance of PBFT					
		26	35.1069	201	Privacy-Preserving PayString Service					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	25	35.1070		With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration: Lessons from the Belgian					
		37	37.1001	115	A Truly Self-Sovereign Identity System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.1002		e-Identification: a literature review of its challenges, benefits and usage					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37	37.1003		The Review of Non-Technical Assumptions in Digital Identity Architectures					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1001		Security, performance, and applications of smart contracts: A systematic survey					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	38	38.1002		Some economic consequences of the GDPR					
		38	38.1003	60	In search of self-sovereign identity leveraging blockchain technology					
		38	38.1004	63	Analysis of Identity Management Systems Using Blockchain Technology					
		38	38.1005	59	Blockchain-based identity management: A survey from the enterprise and ecosystem perspective					
		39	39.1006	111	Self-sovereign identity in a globalized world: Credentials-based identity systems as a driver for economic inclusion					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1007		Life-and-Shift: Obtaining Simulation Extractable Subversion and Updatable SNARKs Generically					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1008		Distributed ledger technology for eHealth identity privacy: State of the art and future perspective					
		38	38.1009	68	Full-text Search for Verifiable Credential Metadata on Distributed Ledgers					
		38	38.1010	35.1007	Blokzincir teknolojisinin dijital kimlik yönetiminde kullanımı: bir sistematik haritalama çalışması					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1011		Quantifying Transparency of Machine Learning Systems through Analysis of Contributions					
		39	39.1012	141	Blockchain-based Solution for COVID-19 Digital Medical Passports and Immunity Certificates					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1013		Immutability and decentralized storage: An analysis of emerging threats					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1014		SoK: Lifting Transformations for Simulation Extractable Subversion and Updatable SNARKs					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1015		A User-Centric Identity Management Framework based on the W3C Verifiable Credentials and the FIDO Universal Authentication Framework					
		38	38.1016	46	Self-Sovereign Identity: Use-cases, Technologies, and Challenges for Industrial IoT					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1017		Design Choices for Central Bank Digital Currency: Policy and Technical Considerations					
		39	39.1018	35.1011	A case study on the decentralization of lifelong learning using blockchain technology					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1019		Call Me BIG PAPA: An Extension of Mason's Information Ethics Framework to Big Data					
		39	39.1020	121	Certifying Provenance of Scientific Datasets with Self-sovereign Identity and Verifiable Credentials					
		39	39.1021	35.1005	A Business Process Model for Blockchain-based South African Real Estate Transactions					
		38	38.1022	65	Edge Computing: Smart Identity Wallet Based Architecture and User Centric					
		39	39.1023	124	Self-sovereign and Decentralized identity as the future of identity management?					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1024		Digital Metrology for the Internet of Things					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1025		Metrological Challenges in Collaborative Sensing: Applicability of Digital Calibration Certificates					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	39	39.1026		An analysis of digital identity management systems-a two-mapping view	2020	Liu, J., Hodgea, A., Cla	Conference on Blockch	No	"considering how 'self-sovereign' a propos
		39	39.1027	35.1017	Design-Pattern-as-a-Service for Blockchain-based Self-Sovereign Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	35.1028		Genuine Personal Identifiers and Mutual Sureties for Sybil-Resilient Community Growth					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1029		Binding of Endpoints to Identifiers by On-Chain Proofs					
		39	39.1030	35.1007	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting					
		39	39.1031	125	Identity Management on Blockchain - Privacy and Security Aspects					
		39	39.1032	136	A survey on blockchain-based identity Management and decentralized privacy for personal data					
		39	39.1033	204	Privacy-Preserving eID Derivation for Self-Sovereign Identity Systems					
		39	39.1034	35.1022	Blockchain Applications in Education: A Case Study in Lifelong Learning					
		39	39.1035	115	A Truly Self-Sovereign Identity System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1036		Mapping the Interplanetary Filesystem					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1037		Blockchain Technology in Sub-Saharan Africa: Where does it fit in Healthcare Systems: A case of Tanzania					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1038		Construction quality information management with blockchains					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1039		Genuine Personal Identifiers and Mutual Sureties for Sybil-Resilient Community Formation					
		39	39.1040	37.1003	The Review of Non-Technical Assumptions in Digital Identity Architectures					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1041		A secure and interoperable blockchain-based information sharing system for healthcare providers in developing countries					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1042		The Road to Useful Online Identity Managers: Design Science Research on the user experience side of Online Identity Managers					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1043		IdToken: a new decentralized approach to digital identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1044		Decentralizing Science: Towards an Interoperable Open Peer Review Ecosystem using Blockchain					
		39	39.1045	74	Self-Sovereign Identity Systems Opportunities and challenges					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1046		Was schützt (vor) Social Bots? Vorschläge zur Governance von computergenerierten Softwareagenten im Internet					
		38	38.1047	35.1009	An overview on blockchain for smartphones: State-of-the-art, consensus, implementation, challenges and future trends					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1048		Having Our "Omic" Cake and Eating It Too					
		39	39.1049	35.1014	Sok: Lifting transformations for simulation extractable subversion and updatable snarks					
		39	39.1050	107.13	Design patterns for blockchain-based self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1051		Calypso: Private data management for decentralized ledgers					
		39	39.1052	158	Revocable and offline-verifiable self-sovereign identities					
		39	39.1053	189	SSIBAC: Self-Sovereign identity based access control					
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	38	38.1054		Communication Rights for Social Bots? Options for the Governance of Automated Computer-Generated Online Identities					
		39	39.1055	142	Blockchain-based Verifiable Credential Sharing with Selective Disclosure					
		39	39.1056	145	Decentralized identity systems: Architecture, challenges, solutions and future directions					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1057		Rahasak - Scalable blockchain architecture for enterprise applications					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1058		Decentralized robinson list					
		39	39.1059	161	Securing emission data of smart vehicles with blockchain and self-sovereign identities					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1060		Verifiable and auditable authorizations for smart industries and industrial Internet-of-Things					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1061		Match: A decentralized middleware for fair matchmaking in peer-to-peer markets					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1062		Internet of Things for Mental Health: Open Issues in Data Acquisition, Self-Organization, Service Level Agreement, and Identity Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1063		Identity and Personhood in Digital Democracy: Evaluating Inclusion, Equality, Security, and Privacy in Pseudonym Parties and Other Proofs of Pe					
		39	39.1064	219	Trust Me If You Can: Trusted Transformation Between (JSON) Schemas to Support Global Authentication of Education Credentials					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1065		Reducing Modern Slavery Using AI and Blockchain					
		38	38.1066	317	Towards a trustful digital world: exploring self-sovereign identity ecosystems					
		39	39.1067	35.1039	Blockchain-Driven Identification Procedures in the Migration Context: Regulatory Challenges and Fundamental Rights Issues					
		39	39.1068	280	SANG: Self-Sovereign Authentication for Network Slices					
		39	39.1069	196	Identity of Things: Applying concepts from Self Sovereign Identity to IoT devices					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1070		A Reliable and Universal Cloud Wallet					
		39	39.1071	146	Designing an academic electronic identity management system for student mobility using eIDAS eID and Self-Sovereign Identity technologies					
		39	39.1072	35.1042	A proposal for the use of blockchain in the portuguese voting system					
		39	39.1073	132	A Comparative Survey on Blockchain Based Self Sovereign Identity System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1074		A Design of Self-sovereign Data Distribution Platform for a Reliable Data Economy					
		39	39.1075	35.1044	Opportunities and challenges for self-sovereign identity in the public sector: a case of Belgium					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1076		Self-Sovereign Identity as the Basis for Universally Applicable Digital Identities					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1077		When Data Fly: An Open Data Trading System in Vehicular Ad Hoc Networks					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1078		Data trust framework using blockchain and smart contracts					
		39	39.1079	173	A blockchain-empowered and privacy-preserving digital contact tracing platform					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1080		Blockchain technology as an enabler of consumer trust: a text mining literature analysis					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1081		Healthcare Data Management by Using Blockchain Technology					
		39	39.1082	35.1020	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting					
		39	39.1083	221	With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration					
		39	39.1084	34.1007	SSI eIDAS Legal Report					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1085		Decentralized Accreditation of Educational Attainments using Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1086		Blockchain based Identity Management and Ticketing for MaaS					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1087		Privacy-preserving Analytics for Data Markets using MPC					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1088		The Magic Quadrant: Assessing Ethical Maturity for Artificial Intelligence					
		39	38.1089	183	Analysis on the Privacy of DID Service Properties in the DID Document					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1090		Toward Trustless Internet of Things: a Blockchain-based approach					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1091		Towards a Taxonomy of Incentive Mechanisms for Data Sharing in Data Ecosystems					
		39	38.1092	200	On the Market for Self-Sovereign Identity: Structure and Stakeholders					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1093		Exploring Potential Impacts of Self-Sovereign Identity on Smart Service Systems: An Analysis of Electric Vehicle Charging Services					
		39	38.1094	35.1013	A case study on the decentralization of lifelong learning using blockchain technology					
		39	39.1095	175	A lightweight trust management infrastructure for self-sovereign identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1096		Roaming service for electric vehicle charging using blockchain-based digital identity					
		39	38.1097	35.1053	Emerging Digital Technologies to Combat Future Crises: Learnings From COVID-19 to be Prepared for the Future					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1098		Basa-Scalable Blockchain Architecture for Smart Cities					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1099		Implementing Digital Student Data Portability: Experiences and Lessons Learned					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1100		AIS Electronic Library (AISeL)					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1101		Proposal of Verifiable Credential System for Smart Contract Implementation based on Self-Sovereign Identity					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1102		Gestion d'identité distribuée					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1103		What protects (against) social bots? Proposals for governance of computer-generated software agents on the Internet					
		39	39.1104	229	A Blockchain based Human-to-Infrastructure Contact Tracing Approach for COVID-19					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1105		Know Your Customer: Balancing Innovation and Regulation for Financial Inclusion					
		39	38.1106	257	Clear the Fog: Towards a Taxonomy of Self-Sovereign Identity Ecosystem Members					
		39	38.1107	324	Towards the classification of Self-Sovereign Identity properties					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1108		CyECPro-Cyber Supply Chain Provenance Framework for Risk Management of Energy Delivery Systems					
		39	38.1109	314	Improving Anonymous Whistleblower Credibility with Self-Sovereign Identity					
		39	38.1110	322	Self-Sovereign Identity: A Primer and Call for Research in Information Systems					
		39	38.1111	265	Using blockchain technology for software identity maintenance					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1112		Casper: a blockchain-based system for efficient and secure customer credential verification					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	39	39.1113		A Decentralized Identity-Based Blockchain Solution for Privacy-Preserving Licensing of Individual-Controlled Data to Prevent Unauthorized Secur	2021	Meng Kang, Victoria L.	Ledger journal	No	"the prevention of unauthorized secondar
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1114		Surveying and Analyzing Privacy Issues in Contact tracing apps					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1115		Data Ownership: A Survey					
		39	39.1116	35.1061	Privacy-preserving Identity Management System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1117		Sunspot: A Decentralized Framework Enabling Privacy for Authorizable Data Sharing on Transparent Public Blockchains					
		39	39.1118	283	Swarm Communication using Self Sovereign Identities					
		39	39.1119	289	Verifiable Credential Proof Generation and Verification Model for Decentralized SSI-Based Credit Scoring Data					
		38	38.1120	221	Designing a Framework for Digital KYC Processes Built on Blockchain-Based Self-Sovereign Identity					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	39	39.1121		JointCloud: Cross-chain Verification Model of Decentralized Identifiers	2021	Tao Zhong, Peichang S	IEEE International Perfi	Yes	"However, current DIDs can only conduct "we propose a model to conduct cross-chain verification of D
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1123		Blockchain and Identity Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1124		With or Without Blockchain? Towards a Decentralized, SSI-based eRoaming Architecture					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1125		Digitization of certification processes in the asylum procedure by means of digital identities					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	38.1126		Empowering citizens by a blockchain-Based Robinson list					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1127		Towards a bottom-up approach to inclusive digital identity systems					
		39	39.1128	278	Digital identities and verifiable credentials					
		39	39.1129	251	Credentials as a Service Providing Self Sovereign Identity as a Cloud Service Using Trusted Execution Environments					
		38	38.1130	208	Asset logging in the energy sector: a scalable blockchain-based data platform					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1131		A Decentralized Electronic Prescription Management System					
		39	39.1132	35.1065	Secure De-identification and Data Sovereignty Management of Decentralized SSI using Restructured ZKP					
		38	38.1133	282	Matching Metadata on Blockchain for Self-Sovereign Identity					
		39	39.1134	317	On the Usability of Self Sovereign Identity Solutions					
		39	39.1135	302	An Identity Asset Sensitivity Model in Self-Sovereign Identities					
		39	39.1136	306	Blockchain-Based Self-Sovereign Identity: Survey, Requirements, Use-Cases, and Comparative Study					
		39	39.1137	306	Methods for Decentralized Identities: Evaluation and Insights					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	39	39.1138		Pervasive Futuristic Healthcare and Blockchain enabled Digital Identities-Challenges and Future Interations					
		39	39.1139	311	Ethical Design of Digital Identity Environmental Implications from the Self-Sovereign Identity Movement					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1140		Understanding Block and Transaction Logs of Permissionless Blockchain Networks					
		39	39.1141	228	Disposable identities: enabling trust-by-design to build more sustainable data driven value					
		38	38.1142	266	A survey of self-sovereign identity ecosystem					
		39	39.1143	352	Decentralizing Identity Management and Vehicle Rights Delegation through Self-Sovereign Identities and Blockchain					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38	38.1144		Promise-blockchain and self sovereign identity empowered mobile ATM platform					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1145		Prototyping a Smart Contract Based Public Procurement to Fight Corruption					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35	38.1146		Vind: A Blockchain-Enabled Supply Chain Provenance Framework for Energy Delivery Systems					
		45	45.1001	59	Blockchain-based identity management: A survey from the enterprise and ecosystem perspective					
		45	45.1002	61	Self-sovereign identity solutions: The necessity of blockchain technology					
		45	45.1003	66	Self-Sovereign Identity: Use-cases, Technologies, and Challenges for Industrial IoT					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	45	45.1004		ZKlaims: Privacy-preserving Attribute-based Credentials using Non-interactive Zero-knowledge Techniques	2019	Martin Schanzenbach,	arXiv	Yes	"Classical attribute-based credential (ABC)ZKlaims allow users to prove statements on credentials iss
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1005		IETF 104 PEARG					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1006		The GNU Name System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1007		Incentivizing Contribution in DecentralizedCommunity Information Systems					
		45	45.1008	35.1016	An overview of limitations and approaches in identity management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1009		Self-Analysis Technology, Roles, and Cybersecurity in the Virtual Learning Environments					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1010		Datenspuren 2019					
		45	45.1011	38.1041	A secure and interoperable blockchain-based information sharing system for healthcare providers in developing countries					
		45	45.1012	38.1042	The Road to Useful Online Identity Managers: Design Science Research on the user experience side of Online Identity Managers					
		45	45.1013	142	Blockchain-based Verifiable Credential Sharing with Selective Disclosure					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1014		Self-Sovereign Identities					
		45	45.1015	26.1012	Potential Identity Revolution Systems for the Industrial Internet of Things: A Survey					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	45	45.1016		Towards Self-sovereign, decentralized personal data sharing and identity management.	2020	Martin Schanzenbach,	PhD Thesis	Yes	"a decentralized modeling and processing"We use methods from attribute-based delegation (ABD) in
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1017		Universal Identity and Access Management Framework for Future Ecosystems.					
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	45	45.1018		A Lightweight Scheme Exploiting Social Networks for Data Minimization According to the GDPR	2021	Gianluca Lax, Antonia F	IEEE TRANSACTIONS	Yes	"finding a solution that guarantees two pri"we propose a new solution based on the use of a social ne
		45	45.1019	284	Decentralized Identities for Self-sovereign End-users (DISSENS)					
		45	45.1020	302	Proven and Modern Approaches to Identity Management					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45	45.1021		59 Agente de reconocedor para mejorar la privacidad de los usuarios cuando usan gestión de identidades federada					
		53	53.1001	148	Distributed-Ledger-based Authentication with Decentralized Identifiers and Verifiable Credentials					
		53	53.1002	115	A Truly Self-Sovereign Identity System					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.1003		Critical Discourse Analysis on Media Coverage of COVID-19 Contract Tracing Applications: Case of South Africa					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.1004		Blockchain Use Cases in Transportation and Logistics					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	53	53.1005		The Practicality of Adopting Blockchain-Based Distributed Identity Management in Organisations: A Meta-Synthesis					
		53	53.1006	251	Credentials as a Service Providing Self Sovereign Identity as a Cloud Service Using Trusted Execution Environments					
		53	53.1007	254	Connecting Self-Sovereign Identity with Federated and User-centric Identities via SAML Integration					
		57	57.1001	234	Decentralized and Self-Sovereign Identity: Systematic Mapping Study					
		57	57.1002	293	ATIB: Design and Evaluation of an Architecture for Brokered Self-Sovereign Identity Integration and Trust-Enhancing Attribute Aggregation for Ser					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	58	58.1001		RiderS: Towards a Privacy-Aware Decentralized Self-Driving Ride-sharing Ecosystem					
		58	58.1002	234	Decentralized and Self-Sovereign Identity: Systematic Mapping Study					
Include (Satisfies IC-2 The research work makes prac		58	58.1003		Pseudo-Biometric Identity Framework: Achieving Self-Sovereignty for Biometrics on Blockchain	2021	Mishra, Prince Modana	2021 IEEE Internationa	No	"Biometric credentials are extremely sensi"This work proposes a blockchain based framework that allo
		58	58.1004	231	DT-SSIM: A Decentralized Trustworthy Self-Sovereign Identity Management Framework					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1001		Blockchain consensus algorithms: A survey					
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1002		Virtual Identity in Blockchain					
		60	60.1003	141	Blockchain-based Solution for COVID-19 Digital Medical Passports and Immunity Certificates					
		60	60.1004	38.1013	Immutability and decentralized storage: An analysis of emerging threats					
		60	60.1005	338	Self-Sovereign Identity for IoT environments: A Perspective					
		60	60.1006	301.7	Secure Decentralized Machine Identifiers for Internet of Things					
		60	60.1007	169	An Identity Management and Authentication Scheme Based on Redactable Blockchain for Mobile Networks					
		60	60.1008	35.1016	An overview of limitations and approaches in identity management					

		60	60.1009	110	VaultPoint: A Blockchain-Based SSI Model that Complies with OAuth 2.0				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1010		Refugees' loss of self-determination in UNHCR operations through the gaining of identity in blockchain technology				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1011		A Survey on Blockchain Interoperability: Past, Present, and Future Trends				
		60	60.1012	35.1018	A zero-knowledge-proof-based digital identity management scheme in blockchain				
		60	60.1013	34.1020	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1014		Blockchain Consensuses Algorithms: A Survey				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1015		基于可信区块的 P2P 网络身份认证机制				
		60	60.1016	38.1048	Having Our "Omic" Cake and Eating It Too				
		60	60.1017	188	SSIBAC: Self-Sovereign identity based access control				
		60	60.1018	136	A survey on blockchain-based identity management and decentralized privacy for personal data				
		60	60.1019	145	Decentralized identity systems: Architecture, challenges, solutions and future directions				
		60	60.1020	26.1012	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1021		BONAI: A Blockchain Empowered Chatbot for Financial Transactions				
		60	60.1022	35.1034	COVID-19 Contact Tracing using Blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1023		A survey of consensus algorithms in public blockchain systems for crypto-currencies				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1024		A Cross-Layer Trust-based Consensus Protocol for Peer-to-Peer Energy Trading Using Fuzzy Logic				
		60	60.1025	182	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain Technology				
		60	60.1026	137	A Study on Strengthening Personal Information Sovereignty through Analysis of Domestic Service Cases and Research Projects of Self-Sovereig				
		60	60.1027	164	Self-Sovereign Identity and User Control for Privacy-Preserving Contact Tracing				
		60	60.1028	146	Designing an academic electronic identity management system for student mobility using eIDAS eID and Self-Sovereign Identity technologies				
		60	60.1029	35.1044	Opportunities and challenges for self-sovereign identity in the public sector: a case of Belgium				
		60	60.1030	36.1076	Self-Sovereign Identity as the Basis for Universally Applicable Digital Identities				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1031		P2P network identity authentication mechanism based on trusted alliance				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1032		WORKPLACE HARASSMENT COMPLAINT EVIDENCE TRACKING SYSTEM USING BLOCKCHAIN				
		60	60.1033	45.1017	Universal Identity and Access Management Framework for Future Ecosystems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1034		IMC: A Classification of Identity Management Approaches				
		60	60.1035	186	Blockchain, Self-Sovereign Identity and Digital Credentials: Promise Versus Praxis in Education				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1036		Consensus Mechanisms of Consortium Blockchain: A Survey				
		60	60.1037	34.1020	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1038		A bibliometric review of research on digital identity				
		60	60.1039	221	With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1040		Dynamic Management of Identity Federations using Blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1041		A Federated Framework for Fine-Grained Cloud Access Control for Intelligent Big Data Analytic by Service Providers				
		60	60.1042	38.1088	The Magic Quadrant: Assessing Ethical Maturity for Artificial Intelligence				
		60	60.1043	38.1076	Self-Sovereign Identity as the basis for universally applicable digital identities				
		60	60.1044	324	Towards the classification of Self-Sovereign Identity properties				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1045		Applying Blockchain Technology to Security-Related Aspects of Electronic Healthcare Record Infrastructure				
		60	60.1046	314	Improving Anonymous Whistleblower Credibility with Self-Sovereign Identity				
		60	60.1047	322	Self-Sovereign Identity: A Primer and Call for Research in Information Systems				
		60	60.1048	461	The major opportunities of Blockchain for Automotive Industry: a Review				
		60	60.1049	35.1061	Privacy-preserving Identity Management System				
		60	60.1050	292	Integration of Self Sovereign Identity in Security Systems				
		60	60.1051	306	Self-sovereign identity: Development of an Implementation-based Evaluation Framework for Verifiable Credential SDKs				
		60	60.1052	38.1124	With or Without Blockchain? Towards a Decentralized, SSI-based eRoaming Architecture				
		60	60.1053	290	Self-Sovereign Identity Management System on blockchain based applications using Chameleon Hash				
		60	60.1054	262	Credentials as a Service Providing Self Sovereign Identity as a Cloud Service Using Trusted Execution Environments				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1055		Um comprovante de vacinação baseado em Identidade Auto-Soberana, Blockchain e Provas de Zero Conhecimento				
		60	60.1056	279	Asset logging in the energy sector: a scalable blockchain-based data platform				
		60	60.1057	38.1131	A Decentralized Electronic Prescription Management System				
		60	60.1058	254	Connecting Self-Sovereign Identity with Federated and User-centric Identities via SAML Integration				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1059		Stateless Nations and Digital Identity Construction: The Case of the Hazara of Hazarajat Under Microscope				
		60	60.1060	317	On the Usability of Self Sovereign Identity Solutions				
		60	60.1061	326	Blockchain-Based Self-Sovereign Identity: Survey, Requirements, Use-Cases, and Comparative Study				
		60	60.1062	311	Ethical Design of Digital Identity Environmental Implications from the Self-Sovereign Identity Movement				
		60	60.1063	291	Identity and access management using distributed ledger technology: A survey				
		60	60.1064	301	A low-overhead approach for self-sovereign identity in IoT				
		60	60.1065	266	A survey of self-sovereign identity ecosystem				
		60	60.1066	35.1070	With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration: Lessons from the Belgian				
		60	60.1067	38.1068	The Magic Quadrant: Assessing Ethical Maturity for Artificial Intelligence				
		60	60.1068	186	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain Technology				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	60	60.1069		Gun Tracking System Using Blockchain Technology				
		60	60.1070	45.1017	Universal Identity and Access Management Framework for Future Ecosystems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1001		Digital Identity and Distributed Ledger Technology: Paving the Way to a Neo-Feudal Brave New World?				
		65	65.1002	65.1010	Privacy by Design using Agents and Sovereign Identities				
		65	65.1003	64	An Information-Centric Networking Based Registry for Decentralized Identifiers and Verifiable Credentials				
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	65	65.1004		How Should We Understand the Digital Economy in Asia? Critical Assessment and Research Agenda				
		65	65.1005	109	An Identity Management and Authentication Scheme Based on Redactable Blockchain for Mobile Networks				
		65	65.1006	35.1018	An overview of limitations and approaches in identity management				
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	65	65.1007		Privacy by Design Identity Architecture Using Agents and Digital Identities	2020	Kalman C. Toth, Ann Cr	Conference: Annual Pri	No
		65	65.1008	34.1020	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1009		Process Scheduling of Personal Identity Verification on Decentralized Trust				
		65	65.1010	65.1007	Privacy by Design Architecture Composed of Identity Agents Decentralizing Control over Digital Identity				
		65	65.1011	161	Securing emission data of smart vehicles with blockchain and self-sovereign identities				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1012		Reference Service Model for Federated Identity Management				
		65	65.1013	35.1044	Opportunities and challenges for self-sovereign identity in the public sector: a case of Belgium				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1014		A novel framework for policy based on-chain governance of blockchain networks				
		65	65.1015	45.1017	Universal Identity and Access Management Framework for Future Ecosystems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1016		Ethical Behavior and Legal Regulations in Artificial Intelligence (Part One): Supporting Sovereignty of Users While Using Complex and Intelligent				
		65	65.1017	144	Cooperative Task Scheduling for Personal Identity Verification in Networked Systems				
		65	65.1018	177	A proposed approach for Digital Identity management using Self Sovereign Identity				
		65	65.1019	221	With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration				
		65	65.1020	222	Proven and Modern Approaches to Identity Management				
		65	65.1021	38.1063	Exploring Potential Impacts of Self-Sovereign Identity on Smart Service Systems: An Analysis of Electric Vehicle Charging Services				
		65	65.1022	188	Blockchain-Enabled Decentralized Identity Management: The Case of Self-Sovereign Identity in Public Transportation				
		65	65.1023	38.1105	Know Your Customer: Balancing Innovation and Regulation for Financial Inclusion				
		65	65.1024	227	Clear the Fog: Towards a Taxonomy of Self-Sovereign Identity Ecosystem Members				
		65	65.1025	324	Towards the classification of Self-Sovereign Identity properties				
		65	65.1026	271	Designing a Framework for Digital KYC Processes Built on Blockchain-Based Self-Sovereign Identity				
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	65	65.1027		A New Approach to Constructing Decentralized Identifier for Secure and Flexible Key Rotation	2021	Chang-Seop Park and I	IEEE Internet of Things	Yes
		65	65.1028	290	Self-Sovereign Identity Management System on blockchain based applications using Chameleon Hash				
		65	65.1029	60.1059	Stateless Nations and Digital Identity Construction: The Case of the Hazara of Hazarajat Under Microscope				
		65	65.1030	317	On the Usability of Self Sovereign Identity Solutions				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65	65.1031		Distributed Interoperable Records: The Key to Better Supply Chain Management				
		66	66.1001	26.1012	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey				
		66	66.1002	324	Towards the classification of Self-Sovereign Identity properties				
		66	66.1003	35.1063	Blockchain Impact of Security and Privacy in Digital Identity Management				
		66	66.1004	266	A survey of self-sovereign identity ecosystem				
		66	66.1005	54	Analysis and evaluation of blockchain-based self-sovereign identity systems				
		66	66.1006	121	Certifying Provenance of Scientific Datasets with Self-sovereign Identity and Verifiable Credentials				
		66	66.1007	51	Towards a Blockchain-based Identity and Trust Management Framework for the IoV Ecosystem				
		66	66.1008	161	Securing emission data of smart vehicles with blockchain and self-sovereign identities				
		66	66.1009	182	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain Technology				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	68	68.1006		Providing Assurance and Scrutability on Shared Data and Machine Learning Models with Verifiable Credentials				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	68	68.1007		BDIM: a Blockchain-based Decentralized Identity Management Scheme for Large Scale Internet of Things				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	68	68.1008		Integrating Psychoinformatics with Ubiquitous Social Networking				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	68	68.1009		Evaluating the Current State of Application Programming Interfaces for Verifiable Credentials				
		68	68.1010	267	Matching Metadata on Blockchain for Self-Sovereign Identity				
		74	74.1001	317	On the Usability of Self Sovereign Identity Solutions				
		74	74.1002	326	Blockchain-Based Self-Sovereign Identity: Survey, Requirements, Use-Cases, and Comparative Study				
		74	74.1003	26.1019	How Blockchain Can Automate KYC: Systematic Review				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.1001		A novel credential protocol for protecting personal attributes in blockchain				
		82	82.1002	161	Blockchain-based identity management systems: A review				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.1003		On Using zk-SNARKs and zk-STARKs in Blockchain-Based Identity Management				
		82	82.1004	289	Using blockchain technology for software identity maintenance				
		82	82.1005	38.1112	Casper: a blockchain-based system for efficient and secure customer credential verification				
		82	82.1006	227	A Blockchain and Self-Sovereign Identity Empowered Digital Identity Platform				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	82	82.1007		A systematic literature mapping on secure identity management using blockchain technology				
		100	100.1001	157	Review of Techniques for Privacy-Preserving Blockchain Systems				
		100	100.1002	35.1044	Opportunities and challenges for self-sovereign identity in the public sector: a case of Belgium				
		100	100.1003	60.1032	WORKPLACE HARASSMENT COMPLAINT EVIDENCE TRACKING SYSTEM USING BLOCKCHAIN				
		100	100.1004	221	With blockchain or not? Opportunities and challenges of self-sovereign identity implementation in public administration				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.1005		Applications of Blockchain Technology in marketing systematic review of marketing technology companies				
		100	100.1006	227	Clear the Fog: Towards a Taxonomy of Self-Sovereign Identity Ecosystem Members				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.1007		A trust module for the interaction with virtual characters				
		100	100.1008	306	Self-sovereign identity: Development of an Implementation-based Evaluation Framework for Verifiable Credential SDKs				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	100	100.1009		Applications of Blockchain Technology in Marketing				
		100	100.1010	268	Cryptographic Implementation of Issuer Policy for Self Sovereign Identity Systems				
		100	100.1011	26.1019	How Blockchain Can Automate KYC: Systematic Review				
		100	100.1012	311	Ethical Design of Digital Identity Environmental Implications from the Self-Sovereign Identity Movement				
		104	104.1001	115	A Truly Self-Sovereign Identity System				
		104	104.1002	158	Revocable and offline-verifiable self-sovereign identities				
		104	104.1003	34.1007	SSI eIDAS Legal Report				
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes p	104	104.1004		Issuer-Hiding Attribute-Based Credentials	2021	Jan Bobolz, Fabian Eid	International Conferenc	?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104	104.1005		KRAKEN-Brokerage and Market Platform for Personal Data				
		104	104.1006	280	SSI Strong Authentication using a Mobile-Phone based Identity Wallet reaching a High Level of Assurance				
		104	104.1007	45.1018	A Lightweight Scheme Exploiting Social Networks for Data Minimization According to the GDPR				
		104	104.1008	277	eID and Self-Sovereign Identity Usage: An Overview				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.1001		Unchain or Block the Hype?: Decision Drivers, Success Factors, and Perspectives for Blockchain Adoption				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.1002		A Reliable Data-transmission Mechanism using Blockchain in Edge Computing Scenarios				
		107	107.1003	174	A Blockchain-based Platform Architecture for Multimedia Data Management				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.1004		Secure Credential Sharing with Blockchains				
		107	107.1005	144	Blockchain-based Verifiable Credential Sharing with Selective Disclosure				
		107	107.1006	26.1012	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey				
		107	107.1007	234	Decentralized and Self-Sovereign Identity: Systematic Mapping Study				
		107	107.1008	271	Designing a Framework for Digital KYC Processes Built on Blockchain-Based Self-Sovereign Identity				
		107	107.1009	107.1001	Unchain or Block the Hype?: Decision Drivers, Success Factors, and Perspectives for Blockchain Adoption				
		107	107.1010	280	SSI Strong Authentication using a Mobile-Phone based Identity Wallet reaching a High Level of Assurance				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	107	107.1011		Burnable Pseudo-Identity: A Non-Binding Anonymous Identity Method for Ethereum				
		107	107.1012	107.1004	Secure Credential Sharing with Blockchains				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1001		A blockchain-based Forensic Modal for Financial Crime Investigation: The Embezzlement Scenario				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1002		Design of Running Training Assistance System Based on Blockchain And Wireless Sensor Technology				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1003		Research on sports fitness management based on blockchain and Internet of Things				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1004		Quantum Resistant Key-exposure Free Chameleon Hash and Applications in Redactable Blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1005		A trustworthy industrial data management scheme based on redactable blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1006		Data Security Using Directory Server in Identity and Access Management System				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1007		BPAF: Blockchain-Enabled Reliable and Privacy-Preserving Authentication for Fog-Based IoT Devices				
		109	109.1008	38.1077	When Data Fly: An Open Data Trading System in Vehicular Ad Hoc Networks				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1009		BIA: A Blockchain-based Identity Authorization Mechanism				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1010		Exploring the redaction mechanisms of mutable blockchains: A comprehensive survey				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1011		Research on personal credit evaluation of internet finance based on blockchain and decision tree algorithm				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1012		A Privacy-Preserving Identity Authentication Scheme Based on the Blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1013		The impact of blockchain on e-commerce: a framework for salient research topics				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1014		An efficient three-factor remote user authentication protocol based on BPV-FourQ for internet of drones				
		109	109.1015	188	Blockchain-Enabled Decentralized Identity Management: The Case of Self-Sovereign Identity in Public Transportation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1016		Understanding decentralized civic engagement: Focus on peer-to-peer and blockchain-driven perspectives on e-participation				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1017		BSLA: Blockchain-assisted Secure and Lightweight Authentication for SGIN				
		109	109.1018	309	Decentralized Identifiers and Self-sovereign Identity in 6G				
		109	109.1019	324	Towards the classification of Self-Sovereign Identity properties				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1020		Efficient Small-Batch Verification and Identification Scheme With Invalid Signatures in VANETs				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	109	109.1021		An Edge Trajectory Protection Approach Using Blockchain				
		110	110.1001	186	An Exploratory Study on Self-Sovereign Identity Powered by the Blockchain Technology				
		110	110.1002	279	Asset logging in the energy sector: a scalable blockchain-based data platform				
		110	110.1003	254	Connecting Self-Sovereign Identity with Federated and User-centric Identities via SAML Integration				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.1004		A Comparative Study of Cyber Threats on Evolving Digital Identity Systems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	110	110.1005		Blockchain				
		113	113.1001	278	Digital identities and verifiable credentials				
		114	114.1001	166	Development of a mobile, self-sovereign identity approach for facility birth registration in Kenya				
		114	114.1002	267	Clear the Fog: Towards a Taxonomy of Self-Sovereign Identity Ecosystem Members				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	127	127.1001		Group Delegated ID-Based Proxy Reencryption for the Enterprise IoT-Cloud Storage Environment				
		130	130.1001	109	uPort open-source identity management system: An assessment of self-sovereign identity and user-centric data platform built on blockchain				
		130	130.1002	130	Governing principles of self-sovereign identity applied to blockchain enabled privacy preserving identity management systems				
		130	130.1003	188	SSIBAC: Self-Sovereign identity based access control				
		130	130.1004	172	Your identity is yours: Take back control of your identity using GDPR compatible self-sovereign identity				
		130	130.1005	26.1012	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey				
		130	130.1006	317	Towards a trustful digital world: exploring self-sovereign identity ecosystems				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1007		User-Adapted Web Services by Extending the eIDAS Specification with Functional Attributes				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1008		Cloud Identity and Access Management Solution with Blockchain				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1009		Highlighting poor anonymity and security practice in the blockchain of Bitcoin				
		130	130.1010	38.1100	AIS Electronic Library (AISeL)				
		130	130.1011	283	An Attack Tree Based Risk Analysis Method for Investigating Attacks and Facilitating Their Mitigations in Self-Sovereign Identity				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1012		Future look				
		130	130.1013	249	Sovrin Network for decentralized digital identity: Analysing a self-sovereign identity system based on distributed ledger technology				
		130	130.1014	246	Does Sovrin Network offer sovereign identity?				
		130	130.1015	315	Determinants of Behavioral Intention to Use a Self-Sovereign Identity Digital Wallet: Extending the Utaut with Trustworthiness				
		130	130.1016	34.1011	A Decentralised Website Login System using 'Decentralised Identifiers'				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1017		Blockchain-Based Confidential Multiparty Contract Signing Protocol Without TTP Using Elliptic Curve Cryptography				
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	130	130.1018		Survey on Applications of Blockchain in E-Governance				
		130	130.1019	282	Decentralizing Identity Management and Vehicle Rights Delegation through Self-Sovereign Identities and Blockchain				

		130	130.1020	208	Self-sovereign identity ecosystems: benefits and challenges								
		148	148.1001	145	Decentralized identity systems: Architecture, challenges, solutions and future directions								
		148	148.1002	220	Vulnerability Analysis of DID Document's Updating Process in the Decentralized Identifier Systems								
		148	148.1003	68.1007	BDIM: a Blockchain-based Decentralized Identity Management Scheme for Large Scale Internet of Things								
		148	148.1004	38.1077	When Data Fly: An Open Data Trading System in Vehicular Ad Hoc Networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.1005		InNoDID: A robust user information management service based on Decentralized Identifiers								
		148	148.1006	68.1008	Integrating Psychoinformatics with Ubiquitous Social Networking								
		148	148.1007	38.1077	When Data Fly: An Open Data Trading System in Vehicular Ad Hoc Networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.1008		VAIM: Verifiable Anonymous Identity Management for Human-Centric Security and Privacy in the Internet of Things								
		148	148.1009	68.1009	Evaluating the Current State of Application Programming Interfaces for Verifiable Credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	148	148.1010		The Universal Fog Proxy: A Third-party Authentication Solution for Federated Fog Systems with Multiple Protocols								
		148	148.1011	354	Connecting Self-Sovereign Identity with Federated and User-centric Identities via SAML Integration								
		148	148.1012	355	An Identity Asset Sensitivity Model in Self-Sovereign Identities								
		148	148.1013	222	A survey of self-sovereign identity ecosystem								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.1001		Educational Blockchain: A Secure Degree Attestation and Verification Traceability Architecture for Higher Education Commission								
		150	150.1002	234	Decentralized and Self-Sovereign Identity: Systematic Mapping Study								
		150	150.1003	355	An Identity Asset Sensitivity Model in Self-Sovereign Identities								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	150	150.1004		Plataforma para Gestão de Identidades Descentralizadas Baseada em Blockchain								
		158	158.1001	180	Adapting the TPL trust policy language for a self-sovereign identity world								
		158	158.1002	219	Trust Me If You Can: Trusted Transformation Between (JSON) Schemas to Support Global Authentication of Education Credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	158	158.1003		Towards European electronic identity: A blueprint for a secure pan-European digital identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	158	158.1004		Risks, Accountability and Technology Thematic Working Paper								
		175	175.1001	177	eID and Self-Sovereign Identity Usage: An Overview								
		179	179.1001	34.1011	A Decentralised Website Login System using 'Decentralized Identifiers'								
		179	179.1002	254	Connecting Self-Sovereign Identity with Federated and User-centric Identities via SAML Integration								
		180	180.1001	439	Trust Me If You Can: Trusted Transformation Between (JSON) Schemas to Support Global Authentication of Education Credentials								
		180	180.1002	472	eID and Self-Sovereign Identity Usage: An Overview								
		181	181.1001	181	An accessible interface layer for Self-Sovereign Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	183	183.1001		A Comprehensive Analysis of Privacy Protection Techniques Developed for COVID-19 Pandemic								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.1001		Identity Management in Internet of Vehicles based on Distributed Ledger Technology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	184	184.1002		The Need for a Multilayer Cybersecurity Framework for IoV								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	218	218.1001		Automated Privacy Preferences for Smart Home Data Sharing Using Personal Data Stores								
		287	287.1001	177	eID and Self-Sovereign Identity Usage: An Overview								
		296	296.1001	172	PyDentity: A playground for education and experimentation with the Hyperledger verifiable information exchange platform								

First Iteration - Snowballing Totals	
Results	**2294**
Unique	**1394**
Duplicates	**920**
Excluded by EC-1	**61**
Excluded by not (IC-1 and IC-2)	**1301**
Included (Both IC-1 and IC-2)	**22**

Second Iteration - Backwards Snowballing

Researchers Evaluation		**Data Extraction Form**											
Scharborg	**Custódio**												
REVIEW RESULT	**EVALUATE RESULT**	**From ID**	**Paper ID**	**Duplicate of**	**Title**	**Year**	**Authors**	**Published in**	**Add Concept**	**Remove Concept**	**Formal Model**	**Novel Problem**	**Proposed Solution**
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	30.80	30.80.1		JSON-LD 1.1: A JSON-based Serialization for Linked Data								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.2		Key words for use in RFCs to Indicate Requirement Levels								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.3		Date and Time on the Internet: Timestamps								
		30.80	30.80.4	37.22	JSON Web Signature (JWS)								
		30.80	30.80.5	37.23	JSON Web Token (JWT)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.6		Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.7		The JavaScript Object Notation (JSON) Data Interchange Format								
		30.80	30.80.8	229.1	A Signature Scheme with Efficient Protocols								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.9		Simple Demographics Often Identify People Uniquely								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.10		Cryptographic Hyperlinks								
		30.80	30.80.11	46.28	InterPlanetary File System (IPFS)								
		30.80	30.80.12	30.80.11	The application/json Media Type for JavaScript Object Notation (JSON)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.13		JSON Schema: A Media Type for Describing JSON Documents								
		30.80	30.80.14	37.27	Linked Data Proofs								
		30.80	30.80.15	37.27	Linked Data Signatures								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.16		The 2018 RSA Linked Data Signature Suite								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.17		Linked Data Design Issues								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.18		Uniform Resource Identifier (URI): Generic Syntax								
		30.80	30.80.19	37.5	Concise Binary Object Representation (CBOR)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.20		JSON Web Encryption (JWE)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.21		JSON Web Signature (JWS) Unencoded Payload Option								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.22		The Token Binding Protocol Version 1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.23		Strings on the Web: Language and Direction Metadata								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.81.24		Verifiable Credentials Extension Registry								
		30.80	30.82.25	229.16	Verifiable Credentials Implementation Guidelines 1.0								
		30.80	30.83.26	68.14	Verifiable Claims Use Cases								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.84.27		Web Content Accessibility Guidelines (WCAG) 2.1								
		35.1017	35.1017.1	107.1	X.509: Information technology-open systems interconnection--the directory: Public-key and attribute certificate frameworks								
		35.1017	35.1017.2	35.18	OpenPGP message format								
		35.1017	35.1017.3	107.3	#AadhaarLeaks: A list of Aadhaar data leaks								
		35.1017	35.1017.4	30.75	Blockchain: Blueprint for a New Economy								
		35.1017	35.1017.5	37.29	Decentralized Identifiers (DIDs) v1.0								
		35.1017	35.1017.6	30.80	Verifiable credentials data model 1.0								
		35.1017	35.1017.7	107.7	uPort								
		35.1017	35.1017.8	68.29	Sovrin								
		35.1017	35.1017.9	107.9	Blockstack								
		35.1017	35.1017.10	107.10	Blockchain for education: Lifelong learning passport								
		35.1017	35.1017.11	40	A new approach to client onboarding using self-sovereign identity and distributed ledger								
		35.1017	35.1017.12	38	Sora identity: Secure, digital identity on the blockchain								
		35.1017	35.1017.13	302	Design Pattern as a Service for Blockchain-Based Self-Sovereign Identity								
		35.1061	35.1061.1	104.2	Qualified eid derivation into a distributed ledger based idm system								
		35.1061	35.1061.2	67.8	The path to self-sovereign identity								
		35.1061	35.1061.3	74	Dns-idm: A blockchain identity management system to secure personal data sharing in a network								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.4		idenZanarkis								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.5		libsnark: C++ library for zksnark proofs								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.6		Making groth's zk-snark simulation extractable in the ram- dom oracle model								
		35.1061	35.1061.7	158.7	Bulletproofs: Short proofs for confidential transactions and more								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.8		Transparent snarks from dark compilers								
		35.1061	35.1061.9	229.1	A signature scheme with efficient protocols								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.10		Signature schemes and anonymous credentials from bilinear maps								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.11		Modular design and composition of succinct zero-knowledge proofs								
		35.1061	35.1061.12	35.1017.6	Verifiable credentials data model 1.0								
		35.1061	35.1061.13	60	In search of self-sovereign identity leveraging blockchain technology								
		35.1061	35.1061.14	82.9	Hash first, argue later: Adaptive verifiable computations on outsourced data								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.15		Plonk: Permutations over lagrange-bases for oecumenical noninteractive arguments of knowledge								
		35.1061	35.1061.16	82.11	Accountable privacy for decentralized anonymous payments								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.17		Quadratic span programs and succinct nizks without pcps								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.18		Delegating computation: interactive proofs for muggles								
		35.1061	35.1061.19	82.13	On the size of pairing-based non-interactive arguments								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.20		Snarky signatures: Minimal signatures of knowledge from simulation-extractable snarks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.21		On the relevance of blockchain in identity management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.22		Private digital identity on blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.23		Advances in Cryptology								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.24		Constant-size commitments to polynomials and their applications								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.25		Simulation-extractable zk-snark with a single verification								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.26		xjsnark: a framework for efficient verifiable computation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.27		Forward-secure multi-user aggregate signatures based on zk-snarks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.28		Simulation-extractable snarks revisited								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.29		Sonic: Zero-knowledge snarks from linear-size universal and updatable structured reference strings								
		35.1061	35.1061.30	38	A survey on essential components of a self-sovereign identity								
		35.1061	35.1061.31	170	uport open-source identity management system: An assessment of self-sovereign identity and user-centric data platform built on blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.32		A peer-to-peer electronic cash system								
		35.1061	35.1061.33	109.17	The horcrux protocol: a method for decentralized biometric-based self-sovereign identity								
		35.1061	35.1061.34	35.6	Trustchain: A sybil-resistant scalable blockchain								
		35.1061	35.1061.35	82.24	Pinocchio: Nearly practical verifiable computation								
		35.1061	35.1061.36	35.11	An efficient range proof scheme								
		35.1061	35.1061.37	35.7	The tangle								
		35.1061	35.1061.38	35.1017.5	Decentralized identifiers (dids) v1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.39		Decentralized anonymous payments from bitcoin								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.40		Efficient and general-purpose zksnarks without trusted setup								
		35.1061	35.1061.41	40	A new approach to client onboarding using self-sovereign identity and distributed ledger								
		35.1061	35.1061.42	115	A truly self-sovereign identity system								
		35.1061	35.1061.43	35	Deployment of a blockchain-based self-sovereign identity								
		35.1061	35.1061.44	285.22	How sovrin works								
		35.1061	35.1061.45	53.2	Ethereum: A secure decentralised generalised transaction ledger								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1061	35.1061.46		Libra: Succinct zero-knowledge proofs with optimal prover computation								
		35.1061	35.1061.47	35.1019	A zero-knowledge-proof-based digital identity management scheme in blockchain								
		35.1061	35.1061.48		Identity management systems for the internet of things: a survey towards blockchain solutions								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1		Infra Standard								
		37.29	37.29.2	30.80.1	JSON-LD 1.1: A JSON-based Serialization for Linked Data								
		37.29	37.29.3	30.80.2	Key words for use in RFCs to Indicate Requirement Levels								
		37.29	37.29.4		Guidelines for Writing RFC Text on Security Considerations								
		37.29	37.29.5	30.80.18	Uniform Resource Identifier (URI): Generic Syntax								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.6		Augmented BNF for Syntax Specifications: ABNF								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.7		JSON Web Key (JWK)								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.8		JSON Web Key (JWK) Thumbprint								
		37.29	37.29.9	30.80.6	Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words								
		37.29	37.29.10	30.80.7	The JavaScript Object Notation (JSON) Data Interchange Format								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.12		W3C XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.13		Decentralized Identifier Resolution								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.14		Decentralized Characteristics Rubric v1.0								
		37.29	37.29.15	180.22	DID Specification Registries								
		37.29	37.29.16	287.12	The Decentralized Identifier (DID) in the DNS								
		37.29	37.29.17	20.80.19	Cryptographic Hyperlinks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.18		Uniform Resource Identifier (URI) Schemes								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.19		JSON-LD 1.0								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.20		Matrix URIs - Ideas about Web Architecture								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.21		The Multibase Encoding Scheme								
		37.29	37.29.22	113.25	Privacy by design the 7 foundational principles								
		37.29	37.29.23	38.12	A Universally Unique IDentifier (UUID) URN Namespace								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.24		JavaScript Object Notation (JSON) Pointer								
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.26		Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.27		Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content								
		37.29	37.29.28	37.31	Uniform Resource Names (URNs)								
		37.29	37.29.29	35.1017.6	Verifiable Credentials Data Model 1.0								
		38.1026	38.1026.1	67.8	The path to self-sovereign identity								
		38.1026	38.1026.2	68.8	A first look at identity management schemes on the blockchain								
		38.1026	38.1026.3	54	Analysis and evaluation of blockchain-based self-sovereign identity systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1026	38.1026.4		Facebook suspends data-analysis firm cambridge analytica from platform								
		38.1026	38.1026.5	74.10	Pretty Good Privacy (PGP)								
		38.1026	38.1026.6	107.1	X.509: Information technology-open systems interconnection--the directory: Public-key and attribute certificate frameworks								
		38.1026	38.1026.7	35.2	Why johnny can't encrypt: A usability evaluation of pgp 5.0								
		38.1026	38.1026.8	296.3	Btcr dist method								
		38.1026	38.1026.9	67.29	Blockstack: A new decentralized internet								
		38.1026	38.1026.10	30.97	Sovrin: A protocol and token for self-sovereign identity and decentralized trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1026	38.1026.11		Key manager - erc 725 v1								
		38.1026	38.1026.12	38.30	Swftkey								
		38.1026	38.1026.13	37.29	Decentralized identifiers (dids)								
		38.1026	38.1026.14	30.80	Verifiable credentials data model								
		38.1026	38.1026.15	175.12	A taxonomic approach to understanding emerging blockchain identity management systems								
		38.1026	38.1026.16	38	A survey on essential components of a self-sovereign identity								
		38.1026	38.1026.17	20.16	Digital identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.27	45.27.1		Standards for efficient cryptography, sec 1: elliptic curve cryptography								
		45.1004	45.1004.1	45.11	Snarks for c: Verifying program executions succinctly and in zero knowledge								
		45.1004	45.1004.2	45.10	Design and implementation of the idemix anonymous credential system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1004	45.1004.3		Cambridge analytica and facebook: The scandal and the fallout so far								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1004	45.1004.4		Decentxl: Decentralized and privacy-preserving identity storage system using smart contracts								
		45.1004	45.1004.5	82.13	On the size of pairing-based non-interactive arguments								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1004	45.1004.6		Lnlimbtd: Privacy-preserving federated identity management using algebraic macs								
		45.1004	45.1004.7	45.5	Nameid								
		45.1004	45.1004.8	204.27	U-prove cryptographic specification v1.1								
		45.1004	45.1004.9	82.24	Pinocchio: Nearly practical verifiable computation								
		45.1004	45.1004.10	37.32	Openid connect core 1.0								
		45.1004	45.1004.11	45.27	Managing and presenting user attributes over a decentralized secure name system								
		45.1004	45.1004.12	45	reclaimid: Secure, self-sovereign identities using name systems and attribute-based encryption								
		45.1004	45.1004.13	37.37	Sovrin: A protocol and token for self-sovereign identity and decentralized trust								
		45.1004	45.1004.14	45.3	A censorship-resistant, privacy-enhancing and fully decentralized name system								
		45.1004	45.1004.15	45.4	On the feasibility of a censorship resistant decentralized name system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.1		A distributed trust mode								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.2		P-Grid: A self-organising access structure for P2P information systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.3		Managing trust in a peer-2-peer information system								

		45.1016	45.1016.4	45.19	FAME: fast attribute-based message encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.5		A Survey on Authorization in Distributed Systems: Information Storage, Data Retrieval and Trust Evaluation
		45.1016	45.1016.6	37.3	Decentralized Public Key Infrastructure
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.7		A survey of trust in computer science and the semantic web
		45.1016	45.1016.8	45.11	SNARKs for C: Verifying program executions succinctly and in zero knowledge
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.9		Facebook: Netflix, Spotify, Amazon et al. hatten Zugriff auf persönliche Daten und private Nachrichten
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.10		DNS database espionage
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.11		An Architecture for a Public Identity Infrastructure Based on DNS and OpenID Connect
		45.1016	45.1016.12	45.20	Ciphertext-policy attribute-based encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.13		cpabe -- Ciphertext-Policy Attribute-Based Encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.14		Decentralized trust management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.15		Compliance checking in the policymaker trust management system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.16		The KeyNote trust-management system version 2
		45.1016	45.1016.17	45.17	Attribute-Based Encryption in Systems with Resource Constrained Devices in an Information Centric Networking Context
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.18		Employing attribute-based encryption in systems with resource constrained devices in an information/centric networking context
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.19		DNS Query Name Minimisation to Improve Privacy
		45.1016	45.1016.20	45.27.1	Standards for efficient cryptography, SEC 1: elliptic curve cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.21		Verimi: Samsung tritt europäischer Login-Allianz bei
		45.1016	45.1016.22	45.10	Design and implementation of the idemix anonymous credential system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.23		Memorandum of Understanding Concerning the Technical Work of the Internet Assigned Numbers Authority
		45.1016	45.1016.24	45.12	Towards Secure Name Resolution on the Internet
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.25		Certificate chain discovery in SPKI/SDSI
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.26		Online security - Seamless personal authentication (authentication for all)
		45.1016	45.1016.27	45.1004.3	Cambridge Analytica and Facebook: The Scandal and the Fallout So Far
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.28		Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	45.1016	45.1016.29		The drag queen who took on Facebook isn't celebrating her victory yet
		45.1016	45.1016.30	45.6	Access contested: security, identity, and resistance in Asian cyberspace
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	45.1016	45.1016.31		Puzzling Identities
		45.1016	45.1016.32	27.60	Threshold cryptography
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.34		Usage Profiles for DNS over TLS and DNS over DTLS
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.35		Sozialpsychologie des Internet: Die Bedeutung des Internet für Kommunikationsprozesse, Identitäten, soziale Beziehungen und Gruppen
		45.1016	45.1016.36	68.8	A first look at identity management schemes on the blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.37		Eduroam
		45.1016	45.1016.38	36.23	Establishing identity without certification authorities
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.39		What's the difference? Efficient set reconciliation without prior context
		45.1016	45.1016.40	45.30	Ethereum
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.41		Morecowbell-nouvelles révélations sur les pratiques de la naa
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.42		The online advertising industry: Economics, evolution, and privacy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.43		RSN: Randomized recursive routing for restrictedroute networks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.44		Spreaa: A secure, privacy-respecting single sign-on system for the web
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.45		Broadcast encryption
		45.1016	45.1016.46	37.37	Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.47		DecentID: Decentralized and Privacy-Preserving Identity Storage System Using Smart Contracts
		45.1016	45.1016.48	45.21	Pairings for cryptographers
		45.1016	45.1016.49	45.7	US, British intelligence mining data from nine US Internet companies in broad secret program
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.50		Threshold-optimal DSA/ECDSA signatures and an application to Bitcoin wallet security
		45.1016	45.1016.51	45.16	On Bitcoin Security in the Presence of Broken Cryptographic Primitives
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.52		Yahoo Says 1 Billion User Accounts Were Hacked
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.53		BDSG - Bundesdatenschutzgesetz : Kommentar. 8. überarbeitete und ergänzte Auflage
		45.1016	45.1016.54	45.14	NSEC5: Provably Preventing DNSSEC Zone Enumeration
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.55		Strength in Numbers: Threshold ECDSA to Protect Keys in the Cloud
		45.1016	45.1016.56	82.13	On the size of pairing-based non-interactive arguments
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.57		Decentralized Authentication for Self-Sovereign Identities using Name Systems
		45.1016	45.1016.58	45.12	Towards Secure Name Resolution on the Internet
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.59		An Introduction to Hyperledger
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.60		The Landscape of Customer Identity: Facebook Dominates, Payment Providers on the Rise
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.61		The OAuth 2.0 Authorization Framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.62		Fragmentation Considered Poisonous, or: Onedomain-to-rule-them-all.org
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.63		The DNS-Based Authentication of Named Entities (DANE) Transport Layer Security (TLS) Protocol: TLSA
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.64		Specification for DNS over Transport Layer Security (TLS)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.65		The SSL landscape: a thorough analysis of the x. 509 PKI using active and passive measurements
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.66		Ai Sina Weibo's censorship hub, China's Little Brothers cleanse online chatter
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.67		Public-Key Infrastructure (X.509)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.68		The NSA and GCHQ's QUANTUMTHEORY Hacking Tactics
		45.1016	45.1016.69	45.29	IPFS
		45.1016	45.1016.70	45.1004.6	UnlimID: Privacy-preserving federated identity management using algebraic MACs
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.71		The OAuth 2.0 Authorization Framework: Bearer Token Usage
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.72		Storing Certificates in the Domain Name System (DNS)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.73		EigenTrap: Reputation management in P2P networks
		45.1016	45.1016.74	34.12	The eigentrust algorithm for reputation management in p2p networks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.75		Data is not an asset, it's a liability
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.76		Threshold cryptosystems based on factoring
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.77		Pairing-based cryptography at high security levels
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.78		A practical revocation scheme for broadcast encryption using smartcards
		45.1016	45.1016.79	45.3	NamelD
		45.1016	45.1016.80	35.15	ClaimChain: decentralized public key infrastructure
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.81		Towards practical and secure decentralized attribute-based authorization systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.82		Adults and social network Web sites. Pew Internet and American life Project
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.83		Revocation systems with very small private keys
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.84		RT: A role-based trust-management framework
		45.1016	45.1016.85	45.1016.84	RT: A role-based trust-management framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.86		Distributed credential chain discovery in trust management
		45.1016	45.1016.87	45.2	Decision no. 2016-027 of January 26, 2016 issuing formal notice to FACEBOOK INC. and FACEBOOK IRELAND
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.88		Casper: A compiler for the analysis of security protocols
		45.1016	45.1016.89	45.15	Hijacking Bitcoin: Routing Attacks on Cryptocurrencies
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.92		Measuring Usability
		45.1016	45.1016.93	45.25	CONIKS: Bringing Key Transparency to End Users
		45.1016	45.1016.94	36.20	Namecoin
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.97		Identity Provider Discovery Service Protocol and Profile
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.98		Attribute-based encryption with nonmonotonic access structures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.99		U-prove technology overview v1.1
		45.1016	45.1016.100	104.27	U-prove cryptographic specification v1.1
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		45.1016	45.1016.102	82.24	Pinocchio: Nearly practical verifiable computation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.103		Global measurement of dns manipulation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.104		Bootstrapping Remote Secure Key Infrastructures (BRSKI)
		45.1016	45.1016.105	37.29	Decentralized Identifiers (DIDs)
		45.1016	45.1016.106	308.34	U-Prove
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.107		SDSI-a simple distributed security infrastructure
		45.1016	45.1016.108	45.1016.107	SDSI-a simple distributed security infrastructure
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.109		On the user acceptance of privacy-preserving attribute-based credentials -- a qualitative study
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.110		OpenID Connect Dynamic Client Registration 1.0 incorporating errata set 1
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.111		OpenID Connect Discovery 1.0 incorporating errata set 1
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.112		OpenID Connect Core 1.0 incorporating errata set 1
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.113		Practical Decentralized Attribute Based Delegation Using Secure Name Systems
		45.1016	45.1016.114	45	reclaimID: Secure, Self-Sovereign Identities Using Name Systems and Attribute-Based Encryption
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.117		Example implementation of a relying party for ABD
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.120		re:claimID API in GNUnet
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.121		User interface for ABD
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.122		User interface for re:claimID predecessor
		45.1016	45.1016.123	45.27	M anaging and Presenting User Attributes over a Decentralized Secure Name System
		45.1016	45.1016.124	45.1004	ZKlaims: Privacy-preserving Attribute-based Credentials using Non-interactive Zero-knowledge Techniques
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		45.1016	45.1016.137	107.7	uPort
		45.1016	45.1016.138	107.7	uPort
		45.1016	45.1016.139	110.9	A security analysis of OpenID
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		45.1016	45.1016.142	45.4	On the feasibility of a censorship resistant decentralized name system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.143		Confidential DNS
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.145		DNS-Based Authentication of Named Entities (DANE) Bindings for OpenPGP
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.146		A lightweight attribute-based encryption scheme for the Internet of Things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1016	45.1016.147		Lightweight Directory Access Protocol (LDAP): Technical Specification Road Map
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1018	45.1018.1		Attribute-based access control
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		45.1018	45.1018.22	175.12	A taxonomic approach to understanding emerging blockchain identity management systems
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		45.1018	45.1018.24	53.7	Jolocom
		45.1018	45.1018.25	231.26	LikeID
		45.1018	45.1018.26	107.7	uPort
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		45.1018	45.1018.31	60	Private data system enabling self-sovereign storage managed by executable choreographies
		45.1018	45.1018.32	45	ReclaimID: Secure, self-sovereign identities using name systems and attribute-based encryption
		45.1018	45.1018.33	26.4	The technical foundations of Sovrin
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1018	45.1018.34		IRMA Scheme Manager
		45.1018	45.1018.35	184.19	Self-sovereign identity: A comparison of IRMA and Sovrin
		65.1007	65.1007.1	113.25	Privacy by Design: The 7 Foundational Principles
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		65.1007	65.1007.6	37.8	The path to self-sovereign identity
		65.1007	65.1007.7	37.37	Sovrin: A Protocol and Token for Self-Sovereign Identity and Decentralized Trust
		65.1007	65.1007.8	70.80	verifiable credentials data model
		65.1007	65.1007.9	37.29	Decentralized Identifiers (DIDs)
		65.1007	65.1007.10	65.10	On the usefulness of proof of possession
		65.1007	65.1007.11	60	Architecture for self-sovereign digital identity
		65.1007	65.1007.12	65	Self-sovereign digital identity: a paradigm shift for identity
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		65.1007	65.1007.15	65.12	Blockchain4Ve, tool for creating verifiable IDs on the blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1007	65.1007.16		NIST Special Publication 800–63A, Digital Identity Guidelines, Enrollment and Identity Proofing
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		65.1027	65.1027.1	68.8	A First Look at Identity Management Schemes on the Blockchain
		65.1027	65.1027.2	60	Self-Sovereign Digital Identity: A Paradigm Shift for Identity

		65.1027	65.1027.3	17	The Inevitable Rise of Self-Sovereign Identity
		65.1027	65.1027.4	26.9	uPort: A Platform for Self-Sovereign Identity
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		65.1027	65.1027.7	26.5	Blockstack: A Global Naming and Storage System secured by Blockchains
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		65.1027	65.1027.11	27.4	The Path to Self-Sovereign Identity
		65.1027	65.1027.12	37.3	Decentralized Public Key Infrastructure
		65.1027	65.1027.13	66.17	How to Share a Secret
		65.1027	65.1027.14	35.29	Namecoin
		65.1027	65.1027.15	39.22	An Empirical Study of Namecoin and Lessons for Decentralized Namespace Design
		65.1027	65.1027.16	20.10117.0	Decentralized Identifiers (DIDs) v1.0
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		65.1027	65.1027.20	36.12	A Universally Unique IDentifier (UUID) URN Namespace
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.24		Cryptographically Generated Addresses (CGA)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.25		Secure Neighbor Discovery
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.26		Mobility Support in IPv6
		65.1027	65.1027.27	308.24	Identity-based Cryptosystems and Signature Schemes
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.28		One-time Password based on Hash Chain without Shared Secret and Re-registration
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.29		Infinite Length Hash Chains and their Applications
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.30		Lithe: Lightweight Secure CoAP for the Internet of Things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.31		53K: Scalable Security with Symmetric Keys-DTLS Key Establishment for the Internet of Things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.32		DTLS based Security and Two-way Authentication for the Internet of Things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.33		Lessons Learned from Previous SSL/TLS Attacks - A Brief Chronology of Attacks and Weaknesses
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.34		HSIAC-based Extract-and-Expand Key Derivation Function (HKDF)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.35		Cryptographic Extraction and Key Derivation: The HKDF Scheme
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.36		Recommended Elliptic Curve Domain Parameters
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.37		Efficient Construction of Infinite Length Hash Chains with Perfect Forward Secrecy using two Independent Hash Functions
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	65.1027	65.1027.38		Broadcast Authentication for Wireless Sensor Networks using Nested Hashing and the Chinese Remainder Theorem
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.1		Ed25519: high-speed high-security signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.2		locus of control
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.3		802.1AR-2018 - IEEE Standard for Local and Metropolitan Area Networks - Secure Device Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.4		A Deep Dive on the Recent Widespread DNS Hijacking Attacks
		175.21	175.21.5	36.12	A Universally Unique IDentifier (UUID) URN Namespace
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.6		Introduction to Autonomic Concepts Applied to Future Self-Managed Networks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.7		The Evolution of Layered Protocol Stacks Leads to an Hourglass-Shaped Architecture
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.8		Authoritative Source of Truth
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.9		Hierarchical Deterministic Keys- BIP32 & Beyond
		175.21	175.21.10	27.9	The Path to Self-Sovereign Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.11		Apache Flink
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.12		Apache Kafka
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.13		Arbitrary-precision arithmetic
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.14		No Way, JOSE! Javascript Object Signing and Encryption is a Bad Standard That Everyone Should Avoid
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.15		Argon2
		175.21	175.21.16	104.6	RAR: Redundant byzantine fault tolerance
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.17		BLAKE2 - fast secure hashing
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	175.21	175.21.18		Autonomic
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.19		Autonomic Computing
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	175.21	175.21.20		Autonomic Nervous System
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	175.21	175.21.21		Autonomous
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.22		Recommendation for Key Management: Part 2 – Best Practices for Key Management Organizations
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.23		On The Hourglass Model, The End-to-End Principle and Deployment Scalability
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.24		On The Hourglass Model
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.25		Cost analysis of hash collisions: Will quantum computers make SHARCS obsolete?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.26		High-speed high-security signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.27		BIP32 recommends a 256 bit seed. Why do most Bitcoin wallets only use a 128 bit seed?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.28		Using BGP to acquire bogus TLS certificates
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.29		Bamboozling certificate authorities with BGP)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.30		Sico: Surgical interception attacks by manipulating bgp communities
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.31		Blake3
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.32		BLAKE3 is an Extremely Fast, Parallel Cryptographic Hash
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.33		blake3.pdf
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.34		Mobile Edge Of The Internet Is Rapidly Moving To IPv6
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.35		ECDSA Secp256k1
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.36		Byzantine fault tolerance
		175.21	175.21.37	60.2	The Laws of Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.38		Microsoft's Vision for an Identity Metasystem
		175.21	175.21.39	68.36	Practical Byzantine fault tolerance
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.40		Certificate authority
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.41		Interoperation, Open Interfaces, and Protocol Architecture
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.42		Making Byzantine Fault Tolerant Systems Tolerate Byzantine Faults
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.43		Convergence (SSL)
		175.21	175.21.44	68.24	A DID for Everything
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.45		Cryptographically secure pseudorandom number generator
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.46		Efficient sparse merkle trees
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.47		The Stellar Consensus Protocol: A Federated Model for Internet-level Consensus
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.48		Digital Signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.49		Distributed hash table
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	175.21	175.21.50		Autonomic Ship Concept
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.51		DNS Certification Authority Authorization
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.52		Do you need more than 128-bit entropy?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.53		Domain Name System
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.54		Domain Name System Security Extensions (DNSSEC)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.55		Ed25519 to Curve25519
		175.21	175.21.56	20.45	The Elliptic Curve Digital Signature Algorithm (ECDSA)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.57		Elliptic-curve cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.58		ERC-1056 Lightweight Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.59		The latest gossip on BFT consensus
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.60		Elm-DID Library
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.61		Exascale computing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.62		RFC-7320: Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.63		Media Type Specifications and Registration Procedures draft-ietf-appsawg-media-type-regs-14
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.64		Breaking HTTPS with BGP Hijacking
		175.21	175.21.65	183.16	The EU General Data Protection Regulation (GDPR)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.66		Self-certified public keys
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.67		A DNS hijacking wave is targeting companies at an almost unprecedented scale
		175.21	175.21.68	37.29	Certificate Transparency
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.69		Search for Trust: An Analysis and Comparison of CA System Alternatives and Enhancements
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.70		Additional Media Type Structured Syntax Suffixes draft-ietf-appsawg-media-type-suffix-regs-02
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.71		HD Protocol, HD Wallet, BIP32
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.72		How Cybercrime Exploits Digital Certificates
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.73		How many bits of entropy does an elliptic curve key of length n provide?
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.74		HTTP Public Key Pinning
		175.21	175.21.75	315.31	UNIA
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.76		Information Theory
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.77		Information-theoretic security
		175.21	175.21.78	45.28	InterPlanetary File System (IPFS)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.79		IPv4
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.80		IPv4 address exhaustion
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.81		IPv6
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.82		IPv6 deployment
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.83		ISO 8601
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.84		ISO 8601 and Nanosecond Precision Across Languages
		175.21	175.21.85	45.1018.16	The Base16, Base32, and Base64 Data Encodings
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.86		RFC-3548: The Base16, Base32, and Base64 Data Encodings
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.87		Edwards-Curve Digital Signature Algorithm (EdDSA)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.88		SFS-HTTP: Securing the Web with Self-Certifying URLs
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.89		Key Derivation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.90		Key stretching
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.91		Key Transparency
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.92		The Difference Between System of Record and Source of Truth
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.93		Revocation Transparency
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.94		RFC6962: Certificate Transparency
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.95		Certificate Transparency: Public, verifiable, append-only logs
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.96		Linked Data
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.97		List of arbitrary-precision arithmetic software
		175.21	175.21.98	175.21.4	Locus of Control
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.99		Kademlia: A peer-to-peer information system based on the xor metric
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.100		Escaping the Evils of Centralized Control with self-certifying pathnames
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.101		Self-certifying File System
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.102		Merkle tree
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.103		multicodec
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.104		MultiSigWallet
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.105		ECDSA: Elliptic Curve Signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.106		Namespace
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.107		Practical Post-Quantum Cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.108		Non-reputation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.109		One-way function
		175.21	175.21.110	175.21.109	One-way Function
		175.21	175.21.111	37.32	Openid connect core 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.112		Password Hashing Competition- and our recommendation for hashing passwords: Argon2
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.113		Plenum Byzantine Fault Tolerant Protocol,
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.114		Project Haystacks: TagModel
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.115		Public-key Cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.116		Remote ATtestation procedureS (RATS) WG
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.117		Roots of Trust,
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.118		Independently extensible contexts
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.119		The BLAKE2 Cryptographic Hash and Message Authentication Code (MAC) IETF RFC-7693
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.120		Iolfo
		175.21	175.21.121	26.1	Bitcoin: A Peer-to-Peer Electronic Cash System
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.122		IEEE Std 802.1AR-2018: IEEE Standard for Local and metropolitan area networks–Secure Device Identity
		175.21	175.21.123	175.21.76	Secp256k1 (ECDSA)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.124		Securing End-to-End Communications
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.125		self-sovereign-identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.126		A complete study of PKI (PKI's Known Incidents)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.127		Decentralized Identity as a Meta-platform: How Cooperation Beats Aggregation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.128		Side-channel attack
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.129		Single source of truth,
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.130		Open Reputation Framework
		175.21	175.21.131	27.41	Identity System Essentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.132		Meta-Platforms and Cooperative Network-of-Networks Effects: Why Decentralized Platforms Will Eat Centralized Platforms
		175.21	175.21.133	175.21	Key Event Receipt Infrastructure (KERI) Design and Build
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.134		Decentralized Autonomic Data (DAD) and the three R's of Key Management
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.135		Social Engineering
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.136		One Login To Rule them All - Seamless and Secure Cross-Domain Authentication
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.137		Split Tokens: Token-Based Authentication Protocols without Side-Channels
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.138		DNS Poisoning Attacks: A Guide for Website Admins
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.139		Quantum Secure DIDs
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.140		Secure Property Titles with Owner Authority
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.141		Implicit Identity Based Device Attestation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.142		The Ethash Algorithm
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.143		Top 500: The List
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.144		Trusted Platform Module
		175.21	175.21.145	20.80.19	Uniform Resource Identifier (URI): Generic Syntax
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.146		URL Uniform Resource Locators
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.147		USING ED25519 SIGNING KEYS FOR ENCRYPTION
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.148		Status Report on the First Round of the NIST Post-Quantum Cryptography Standardization Process
		176.21	175.21.149	37.29	Decentralized Identifiers (DIDs)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.150		Sovereign-Source Identity, Autonomy, and Learning,
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.151		Life-Like Identity: Why the Internet Needs an Identity Metasystem,
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.152		Network Device Attestation Workflow
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	175.21	175.21.153		Zooko's Triange
		287.2	287.2.1	37.29	Decentralized Identifiers (DIDs)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	287.2	287.2.2		OSI stack
		287.2	287.2.3	60.2	The Laws of Identity
		301.9	301.9.1	37.29	Decentralized Identifiers (DIDs)
		301.9	301.9.2	20.10117.0	Verifiable Credentials Data Model 1.0
		301.9	301.9.3	291.30	Improving the Privacy of IoT with Decentralised Identifiers (DIDs)
		301.9	301.9.4	58.33	The OAuth 2.0 Authorization Framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.5		Authentication and Authorization for Constrained Environments (ACE) using the OAuth 2.0 Framework (ACE-OAuth)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.6		Use Cases for Authentication and Authorization in Constrained Environments

		301.9	301.9.7	37.32	OpenID Connect Core 1.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.8		Performance evaluation of OpenID Connect for an IoT information marketplace
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.9		User-Managed Access (UMA) 2.0
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.10		Authorization framework for the internet-of-Things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.11		A capability-based security approach to manage access control in the internet of things
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.12		Eclipse Keti
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.13		Can Pseudonymity Really Guarantee Privacy?
		301.9	301.9.14	27.8	The Path to Self-Sovereign Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.15		Blockchain and Identity: Projects/companies working on blockchain and identity
		301.9	301.9.16	68.29	Sovrin
		301.9	301.9.17	107.7	uPort
		301.9	301.9.18	37.15	Verse One
		301.9	301.9.19	58.9	Decentralized Identity Foundation
		301.9	301.9.20	68.36	Practical Byzantine fault tolerance
		301.9	301.9.21	23.6	Ethereum: A Secure Decentralised Generalised Transaction Ledger
		301.9	301.9.22	30.29	Regulation 2016/679 of the European parliament and the Council of the European Union
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.23		A library for implementing an OAuth2 Server in php
		301.9	301.9.24	68.36	Hyperledger Indy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.25		Hyperledger Indy SDK
		301.9	301.9.26	45.1016.29	Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.27		Cinderella: Turning Shabby X.509 Certificates into Elegant Anonymous Credentials with the Magic of Verifiable Computation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.28		The Sovrin Network and Zero Knowledge Proofs
		301.9	301.9.29	45.1016.32	eduroam
		301.9	301.9.30	34.86.5	JSON Web Token (JWT)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.31		Transport Layer Security (TLS) Extensions
		301.9	301.9.32	148.10	Introduction to DID Auth
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.33		Using Raw Public Keys in Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.34		Encrypted Server Name Indication for TLS 1.3
		35.1018	35.1018.1	37.29	Decentralized identifiers (DIDs)
		35.1018	35.1018.2	36.1	SCPKI: a smart contract-based PKI and identity system
		35.1018	35.1018.3	323.2	The identity crisis. security, privacy and usability issues in identity management
		35.1018	35.1018.4	65.1027.18	Hyperledger fabric: a distributed operating system for permissioned blockchains
		35.1018	35.1018.5	35.9	Who am I? Secure identity registration on distributed ledgers
		35.1018	35.1018.6		Succinct non-interactive zero knowledge for a von Neumann architecture
		35.1018	35.1018.7		Scalable, transparent, and post-quantum secure computational integrity
		35.1018	35.1018.8	26.1	Bitcoin: a peer-to-peer electronic cash system
		35.1018	35.1018.9	68.36	Practical byzantine fault tolerance
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.10		Know your customers' jobs to be done
		35.1018	35.1018.11	68.8	A first look at identity management schemes on the blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)		35.1018	35.1018.12		ZoKrates-scalable privacy-preserving off-chain computations
Exclude (Does not satisfy neither IC-1 nor IC-2)		35.1018	35.1018.13		The all-pervasiveness of the blockchain technology
		35.1018	35.1018.14	60.5	Mathematical modelling of identity, identity management and other related topics
		35.1018	35.1018.15	62	In search of self-sovereign identity leveraging blockchain technology
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.16		Blockchain-based database to ensure data integrity in cloud computing environments
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.17		Zkboo: Faster zero-knowledge for boolean circuits
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.18		Snarky signatures: minimal signatures of knowledge from
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.19		Verifiable anonymous identities and access control in permissioned blockchains
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.20		Facebook says data leak hits 87 million users, widening privacy scandal
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.21		EY global blockchain R&D
		35.1018	35.1018.22	175.12	A taxonomic approach to understanding emerging blockchain identity management systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.23		A new transitively closed undirected graph authentication scheme for blockchain-based identity management systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.24		An identity management system based on blockchain
		35.1018	35.1018.25	26.9	Uport: a platform for self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.26		A review on consensus algorithm of blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.27		A survey on zero knowledge range proofs and applications
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.28		Performance and scalability of private ethereum blockchains
		35.1018	35.1018.29	37.37	Sovrin: a protocol and token for self-sovereign identity and decentralized trust
		35.1018	35.1018.30	35	Deployment of a blockchain-based self-sovereign identity
Exclude (EC-1 The research work is not in the area of	Exclude (EC-1 The research work is not in the are	35.1018	35.1018.31		Huazhu hotels group investigates alleged info leak
		35.1018	35.1018.32	53.8	Ethereum: a secure decentralised generalised transaction ledger
		35.1018	35.1018.33	35.1061.48	Identity management systems for the internet of things: a survey towards blockchain solutions
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.34		Ensuring data integrity using blockchain technology
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.1		esatus SSI Wallet
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.3		Investing in Verified Information
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.5		V4 Signing Process with Your Own Program
		38.1113	38.1113.6	27.8	The Path to Self-Sovereign Identity
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.8		Tokenomics: The Crypto Shift of Blockchains, ICOs, and Tokens
		38.1113	38.1113.9	26.1011	Towards a Blockchain Based Digital Identity Verification, Record Attestation and Record Sharing System
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.10		Secret-Sharing Schemes: A Survey
		38.1113	38.1113.11	169	SSIBAC: Self-Sovereign Identity Based Access Control
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.12		TenSEAL: A Library for Doing Homomorphic Encryption Operations on Tensors
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.13		Secure Large-Scale Genome-Wide Association Studies Using Homomorphic Encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.14		Towards Federated Learning at Scale: System design
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.15		A Next-Generation Smart Contract and Decentralized Application Platform
		38.1113	38.1113.16	26.9	Uport: A Platform for Self-Sovereign Identity
		38.1113	38.1113.17	229.1	A Signature Scheme with Efficient Protocols
		38.1113	38.1113.18	113.25	Privacy by design the 7 foundational principles
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.21		Toward a Secure Drone System: Flying with Real-Time Homomorphic Authenticated Encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.22		Homomorphic Encryption for Arithmetic of Approximate Numbers
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.23		Homomorphic Encryption and Secure Comparison
		38.1113	38.1113.24	27.18	New Directions in Cryptography
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.25		Hyperledger Aries Cloud Agent Python (ACA-Py)
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.28		Fully Homomorphic Encryption Using Ideal Lattices
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.30		Secure Access Control for Multi-Cloud Resources
		38.1113	38.1113.31	68.32	Hyperledger Aries
		38.1113	38.1113.32	150.5	Peer DID Method Specification
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.33		The Margin Between the Edge of the World and Infinite Possibility: Blockchain, GDPR, and Information Governance
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.34		CKKS Explained: Part I, Vanilla Encoding and Decoding
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.35		The Token Economy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.36		Logistic Regression Model Training Based on the Approximate Homomorphic Encryption
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.37		Privacy-Preserving Approximate GWAS Computation Based on Homomorphic Encryption
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		38.1113	38.1113.40	297	Having Our "Omic" Cake and Eating It Too?: Evaluating User Response to Using Blockchain Technology for Private and Secure Health Data Mana
		38.1113	38.1113.41	174	A Blockchain-Based Platform Architecture for Multimedia Data Management
		38.1113	38.1113.42	35	A Survey on Essential Components of a Self-Sovereign Identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.43		What is Confidential Computing?
		38.1113	38.1113.44	263.17	Governing Principles of Self-Sovereign Identity Applied to Blockchain Enabled Privacy Preserving Identity Management Systems
		38.1113	38.1113.45	172	Your Identity Is Yours: Take Back Control of Your Identity Using GDPR Compatible Self-Sovereign Identity
		38.1113	38.1113.46	26.1	Bitcoin: A Peer-to-Peer Electronic Cash System
		38.1113	38.1113.47	68.26	Hyperledger Indy
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.50		TRON Advanced Decentralized Blockchain Platform
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.52		Privacy and Trust Redefined in Federated Machine Learning
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.53		Pytorch: An Imperative Style, High-Performance Deep Learning Library
		38.1113	38.1113.54	117.19	Distributed Usage Control
		38.1113	38.1113.55	251.10	Self-Sovereign Identity: Decentralized Digital Identity and Verifiable Credentials
		38.1113	38.1113.56	37.29	Decentralized Identifiers (dids)
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.58		A Method for Obtaining Digital Signatures and PublicKey Cryptosystems
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Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.61		Toward Confidential Cloud Computing
		38.1113	38.1113.62	99.25	Trusted Execution Environment: What It Is, and What It Is Not
		38.1113	38.1113.63	37.31	Uniform Resource Names (URNs)
		38.1113	38.1113.64	20.78	Sovrin: What Goes on the Ledger?
		38.1113	38.1113.65	17	The Inevitable Rise of Self-Sovereign Identity
		38.1113	38.1113.66	30.60	Verifiable Credentials Data Model
		38.1113	38.1113.67	183.16	The EU General Data Protection Regulation (GDPR)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.68		Blockchain Technology Overview
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1113	38.1113.69		How to Generate and Exchange Secrets
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.1		Collaboration environment for jointcloud computing
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.2		A review on Internet of Things (IoT) Internet of everything (IoE) and Internet of nano things (IoNT)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.3		Jointcloud: A cross-cloud cooperation architecture for integrated internet service customization
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.4		Internet-based virtual computing environment: Beyond the data center as a computer
		38.1122	38.1122.5	68.30	Sovrin: digital identities in the blockchain era
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.6		An identity provider as a service platform for the edugain research and education community
		38.1122	38.1122.7	58	A survey on essential components of a self-sovereign identity
		38.1122	38.1122.8	37.29	Decentralized identifiers (dids)
		38.1122	38.1122.9	68.8	A first look at identity management schemes on the blockchain
		38.1122	38.1122.10	30.60	Verifiable Credentials Data Model
		38.1122	38.1122.11	26.1	Bitcoin: A Peer-to-Peer Electronic Cash System
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.12		Efficient range query processing in peer-to-peer systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.13		A survey of Blockchain consensus algorithms: mechanism design and applications
		38.1122	38.1122.14	37.24	The Byzantine generals problem
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.15		Smart phone anti-counterfeiting system using a decentralized identity management framework
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.16		Decentralized Identity Authentication with Trust Distributed in Blockchain Backbone
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.17		Survey of Hyperledger Blockchain Frameworks: Case Study in FPT University's Cryptocurrency Wallets
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.18		Definitions and properties of zero-knowledge proof systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.19		Inter blockchain communication: A survey
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.20		Enabling blockchain innovations with pegged sidechains
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.21		Blockchain router: A cross-chain communication protocol
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.22		InterChain: A Framework to Support Blockchain Interoperability
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.23		An overview on smart contracts: Challenges advances and platforms
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.24		About passwords
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.25		Three-phase cross-cloud federation model: The cloud sso authentication
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.26		Enhancement of Online Identity Authentication Though Blockchain Technology
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.27		Constructing digital signatures from a one-way function
		38.1122	38.1122.28	27.19	A method for obtaining digital signatures and public-key cryptosystems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.29		Towards a Blockchain based digital identity verification record attestation and record sharing system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.30		Research on Blockchain-Based Identity Verification Between IoV Entities
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1122	38.1122.31		Blockchain-enabled Identity Verification for Safe Ridesharing Leveraging Zero-Knowledge Proof
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.1		Biometrics and single sign-on
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.2		Biometrics-as-a-service: Cloud-based technology systems and applications
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.3		Biometrics-as-a-service: A framework to promote innovative biometric recognition in the cloud
		38.1003	38.1003.4	27.8	The path to self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.5		bitnation
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.6		Building trust: Lessons from canada's approach to digital identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.7		Blockchain for refugees: great hopes deep concerns
		38.1003	38.1003.8	109.17	The horcrux protocol: a method for decentralized biometric-based self-sovereign identity
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.9		Inibua: Identity management on blockchain for biometrics-based user authentication
		38.1003	38.1003.10	58	Selfie: Self-sovereign biometric ids
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.11		Biometrics on the blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.12		When a bloom filter is a doom filter: security assessment of a novel iris biometric template protection system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.13		Security analysis of bloom filter-based iris biometric template protection
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.14		Random distance method for generating unimodal and multimodal cancelable biometric features
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.15		OpenCV Face recognition
		38.1003	38.1003.16	37.29	Decentralized Identifiers (DIDs)
		38.1003	38.1003.17	150.5	Peer DID Method Specification
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.1003	38.1003.18		IEEE biometric open protocol standard (BOPS)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.1		Tagged one-time signatures: tight security and optimal tag size
		104.1004	104.1004.2	104	Privacy-preserving eID derivation for self-sovereign identity systems
		104.1004	104.1004.3	104.2	Qualified eID derivation into a distributed ledger based IDM system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.4		Randomizable proofs and delegatable anonymous credentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.5		Fully-featured anonymous credentials with reputation system
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.6		How not to prove yourself: pitfalls of the Fiat-Shamir heuristic and applications to Helios
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.7		Delegatable attribute-based anonymous credentials from dynamically malleable signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.8		Updatable anonymous credentials and applications to incentive systems
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.9		Cryptimeleon: a library for fast prototyping of privacy-preserving cryptographic schemes
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.10		Foundations of fully dynamic group signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.11		Rethinking public key infrastructure and digital certificates - building in privacy
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.12		Concepts around privacy-preserving attribute-based credentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.13		Practical UC-secure delegatable credentials with attributes and their application to blockchain
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.14		Short threshold dynamic group signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.15		Composable and modular anonymous credentials: definitions and practical constructions
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.16		Formal treatment of privacy-enhancing credential systems
		104.1004	104.1004.17	65.9	Privacy-preserving auditing for attribute-based credentials
		104.1004	104.1004.18	296.7	An efficient system for non-transferable anonymous credentials with optional anonymity revocation

		104.1004	104.1004.19	229.1	A signature scheme with efficient protocols
		104.1004	104.1004.20	35.1061.10	Signature schemes and anonymous credentials from bilinear maps
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.21		Efficient group signature schemes for large groups
		104.1004	104.1004.22	45.10	Design and implementation of the idemix anonymous credential system
		104.1004	104.1004.23	82.3	On signatures of knowledge
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.24		Untraceable electronic mail, return addresses, and digital pseudonyms
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.25		Security without identification: transaction systems to make big brother obsolete
		104.1004	104.1004.26	184.16	New group signature schemes
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.27		Delegatable anonymous credentials from mercurial signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.28		Zero-knowledge proofs of knowledge without interaction (extended abstract)
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.29		Fully collision-resistant chameleon-hashes from simpler and post-quantum assumptions
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.30		Efficient public-key cryptography in the presence of key leakage
		104.1004	104.1004.31	184.24	How to prove yourself: practical solutions to identification and signature problems
		104.1004	104.1004.32	308.10	Assessment of attribute-based credentials for privacy-preserving road traffic services in smart cities
		104.1004	104.1004.33	68.12	Decentralized anonymous credentials
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.34		A digital signature scheme secure against adaptive chosen-message attacks
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.35		Simulation-sound NIZK proofs for a practical language and constant size group signatures
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.36		Efficient fully structure-preserving signatures for large messages
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.37		Breaking and fixing anonymous credentials for the cloud
		104.1004	104.1004.38	68.29	Sovrin
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.39		Practical group-signatures with privacy-friendly openings
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.40		On Diophantine complexity and statistical zero-knowledge arguments
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.41		The OLYMPUS architecture - oblivious identity management for private user-friendly services
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.42		Revocable group signature schemes with constant costs for signing and verifying
		104.1004	104.1004.43	308.34	U-prove
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.44		An efficient self-blindable attribute-based credential scheme
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.45		Non-malleable non-interactive zero knowledge and adaptive chosen-ciphertext security
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.46		Efficient signature generation by smart cards
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.47		Coconut: threshold issuance selective disclosure credentials with applications to distributed ledgers
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.48		Decentralized blacklistable anonymous credentials with reputation

Second Iteration - Forward Snowballing													
Researchers Evaluation		Data Extraction Form											
Schardong	Custódio	From ID	Paper ID	Duplicate of	Title	Year	Authors	Published in	Add Concept	Remove Concept	Formal Model	Novel Problem	Proposed Solution
REVIEW RESULT	EVALUATE RESULT												
		30.80	30.80.1001	231.30	Improving the privacy of iot with decentralised identifiers (dids)								
		30.80	30.80.1002	175.12	A taxonomic approach to understanding emerging blockchain identity management systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1003		Enabling decentralised identifiers and verifiable credentials for constrained IoT devices using OAuth-based delegation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1004		Decentralized authorization in constrained IoT environments exploiting interledger mechanisms								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1005		Interledger smart contracts for decentralized authorization to constrained things								
		30.80	30.80.1006	107	Design pattern as a service for blockchain-based self-sovereign identity								
		30.80	30.80.1007	183.4	DIAM-IoT: A Decentralized Identity and Access Management Framework for Internet of Things								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1008		Trusted D2D-based IoT resource access using smart contracts								
		30.80	30.80.1009	107.13	Design patterns for blockchain-based self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1010		Decentralized IoT Data Authorization with Pebble Tracker								
		30.80	30.80.1011	87	Decentralized Identity: Where Did It Come From and Where Is It Going?								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1012		Capability-based iot access control using blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1013		Requirements and interface design								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1014		A European Emissions Trading System Powered by Distributed Ledger Technology: An Evaluation Framework								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1015		Decentralized identity and access management framework for Internet of Things devices								
		30.80	30.80.1016	65.1007	Privacy by Design Identity Architecture Using Agents and Digital Identities								
		30.80	30.80.1017	220	Vulnerability Analysis of DID Document's Updating Process in the Decentralized Identifier Systems								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1018		Can we create a cross-domain federated identity for the industrial Internet of Things without Google?								
		30.80	30.80.1019	135	A Comparative Survey on Blockchain Based Self Sovereign Identity System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1020		Token Design and Management Overview								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1021		Towards Academic and Skills Credentialing Standards and Distributed Ledger Technologies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1022		Internet of Things in Healthcare								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1023		Validation Criteria								
		30.80	30.80.1024	216	The Feasibility and Significance of Employing Blockchain-Based Identity Solutions in Health Care								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1025		A Critique of Immunity Passports and W3C Decentralized Identifiers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1026		A European Emissions Trading System Powered by Distributed Ledger Technology: An Evaluation Framework. Sustainability 2021, 13, 2106								
		30.80	30.80.1027	183	Analysis on the Privacy of DID Service Properties in the DID Document								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1028		Identifying and Supporting Financially Vulnerable Consumers in a Privacy-Preserving Manner: A Use Case Using Decentralised Identifiers and Ve								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	30.80	30.80.1029		Decentralized Interledger Gateway Architectures in Authorization Scenarios with Multiple Ledgers								
		35.1017	35.1017.1001	107.1001	Unchain or Block the Hype?: Decision Drivers, Success Factors, and Perspectives for Blockchain Adoption								
		35.1017	35.1017.1002	107.1002	A Reliable Data-transmission Mechanism using Blockchain in Edge Computing Scenarios								
		35.1017	35.1017.1003	174	A Blockchain-based Platform Architecture for Multimedia Data Management								
		35.1017	35.1017.1004	107.1004	Secure Credential Sharing with Blockchains								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1001		Federated authorization over access to personal data for decentralized identity management								
		37.29	37.29.1002	114.5	The trust over ip stack								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1003		Data cooperatives: Towards a foundation for decentralized personal data management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1004		Towards an Open and Scalable Music Metadata Layer								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1005		Privacy-preserving claims exchange networks for virtual asset service providers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1006		Account management in proof of stake ledgers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1007		Core identities for future transaction systems								
		37.29	37.29.1008	179.6	DID and VC: Untangling Decentralized Identifiers and Verifiable Credentials for the Web of Trust								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1009		Trust Infrastructures for Virtual Asset Service Providers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1010		Gnomon: Decentralized identifiers for securing 5g IoT device registration and software update								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1011		Blockchain Gateways, Bridges and Delegated Hash-Locks								
		37.29	37.29.1012	180	Adapting the TPL trust policy language for a self-sovereign identity world								
		37.29	37.29.1013	45.1016	Towards Self-sovereign, decentralized personal data sharing and identity management.								
		37.29	37.29.1014	296	Evaluating Trust Assurance in Indy-Based Identity Networks Using Public Ledger Database								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1015		Self-Sovereign Identities in Cardossier								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1016		Blockchain tree as solution for distributed storage of personal id data and document access control								
		37.29	37.29.1017	150	Enhancing the Security and Privacy of Self-Sovereign Identities on Hyperledger Indy Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1018		Oracle-based process automation in DLT dominated ecosystems with an application to German waterway transportation								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1019		Blockchain Smart Contract for Cellular Automata-Based Energy Sharing								
		37.29	37.29.1020	196	Identity of Things: Applying concepts from Self Sovereign Identity to IoT devices								
		37.29	37.29.1021	201	Privacy-Preserving PayString Service								
		37.29	37.29.1022	148.1005	InfoDID: A robust user information management serivce based on Decentralized Identifiers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1023		A Federated Authorization Framework for Distributed Personal Data and Digital Identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1024		Empowering Innovation through Data Cooperatives								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1025		IBM Digital Health Pass: A Privacy-Respectful Platform for Proving Health Status Whitepaper								
		37.29	37.29.1026	184.1001	Identity Management in Internet of Vehicles based on Distributed Ledger Technology								
		37.29	37.29.1027	38.1026	An analysis of digital identity management systems-a two-mapping view								
		37.29	37.29.1028	35.1020	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting								
		37.29	37.29.1029	30.80.1025	A Critique of Immunity Passports and W3C Decentralized Identifiers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1030		A Self-Sovereign Identity Architecture Based on Blockchain and the Utilization of Customer's Banking Cards: The Case of Bank Scam Calls Preve								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1031		Password-authenticated Decentralized Identities								
		37.29	37.29.1032	284	Decentralized Identities for Self-sovereign End-users (DISSENS)								
		37.29	37.29.1033	179	A Subject-Centric Credential Management Method based on the Verifiable Credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1034		A privacy-preserving design for sharing demand-driven patient datasets over permissioned blockchains and P2P secure transfer								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1035		BCON: Blockchain-based Content Management Service Using DID								
Include (Satisfies IC-2 The research work makes prac	Include (Satisfies IC-2 The research work makes	37.29	37.29.1036		Secretation: Toward a Decentralised Identity and Verifiable Credentials Based Scalable and Decentralised Secret Management Solution	2021	Zakwan Jaroucheh; Ivá	IEEE International Con			No	"once the consumer receives the secret, i	"Instead of securely storing the secrets and delivering the se
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1037		Exchange Networks for Virtual Assets								
		37.29	37.29.1038	184	A-PoA: Anonymous Proof of Authorization for Decentralized Identity Management								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1039		Overview of the security and trust mechanisms in the 5GZORRO project								
		37.29	37.29.1040	107	Design pattern as a service for blockchain-based self-sovereign identity								
		37.29	37.29.1041	183.4	DIAM-IoT: A Decentralized Identity and Access Management Framework for Internet of Things								
		37.29	37.29.1042	115	A truly self-sovereign identity system								
		37.29	37.29.1043	26.1012	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey								
		37.29	37.29.1044	30.80.1014	A European Emissions Trading System Powered by Distributed Ledger Technology: An Evaluation Framework								
		37.29	37.29.1045	30.80.1015	Decentralized identity and access management framework for Internet of Things devices								
		37.29	37.29.1046	30.80.1021	Towards Academic and Skills Credentialing Standards and Distributed Ledger Technologies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1047		DELIVERABLE D2. 7								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1048		Preparing for a More Fractured Web								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1049		A Security Analysis of Blockchain-Based Did Services								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1050		A Zero-Trust Federated Identity and Access Management Framework for Cloud and Cloud-based Computing Environments								
		37.29	37.29.1051	183	Analysis on the Privacy of DID Service Properties in the DID Document								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1052		Decentralized identifiers for peer-to-peer service discovery								
		37.29	37.29.1053	30.80.1028	Identifying and Supporting Financially Vulnerable Consumers in a Privacy-Preserving Manner: A Use Case Using Decentralised Identifiers and Ve								
		37.29	37.29.1054	38.1096	Roaming service for electric vehicle charging using blockchain-based digital identity								
		37.29	37.29.1055	107.1004	Secure Credential Sharing with Blockchains								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1056		SHARIF: Solid Pod based Secured Healthcare Information Storage and Exchange Solution								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1057		Identidades Parciales								
		37.29	37.29.1058	30.80.1010	Decentralized IoT Data Authorization with Pebble Tracker								
		37.29	37.29.1059	87	Decentralized Identity: Where Did It Come From and Where Is It Going?								
		37.29	37.29.1060	220	Vulnerability Analysis of DID Document's Updating Process in the Decentralized Identifier Systems								
		37.29	37.29.1061	173	A blockchain empowered and privacy preserving digital contact tracing platform								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1062		A Study on Efficient Data De-Identification Method for Blockchain DID								
		37.29	37.29.1063	175.12	A taxonomic approach to understanding emerging blockchain identity management systems								
		37.29	37.29.1064	30.80.1020	Token Design and Management Overview								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1065		A propose for a federated ledger for regulated self-sovereignty								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1066		基于区块链的数字身份发展现状								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1067		A Study on the Applications of Blockchain Transactions and Smart Contracts in Recordkeeping								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29	37.29.1068		블록체인 트랜잭션과 스마트 컨트랙트를 활용한 기록관리 적용 방안 연구								
		37.29	37.29.1069	129	Self-sovereign identity for IoT environments: a perspective								
		37.29	37.29.1070	38.1086	Blockchain based Identity Management and Ticketing for MaaS								
		38.7	38.7.1001	38	A survey on essential components of a self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	38.7	38.7.1002		TRUSTD: Combat Fake Content using Blockchain and Collective Signature Technologies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	45.1004	45.1004.1001		Zero-Knowledge Proofs for Business Processes								
		45.1016	45.1016.1001	284	Decentralized Identities for Self-sovereign End-users (DISSENS)								
		60.19	60.19.1001	60.1001	Blockchain consensus algorithms: A survey								
		60.19	60.19.1002	60.1002	Virtual Identity in Blockchain								
		60.19	60.19.1003	141	Blockchain-based Solution for COVID-19 Digital Medical Passports and Immunity Certificates								
		60.19	60.19.1004	38.1013	Immutability and decentralized storage: An analysis of emerging threats								
		60.19	60.19.1005	35.1044	Opportunities and challenges for self-sovereign identity in the public sector: a case of Belgium								
		60.19	60.19.1006	129	Self-Sovereign Identity for IoT environments: A Perspective								
		60.19	60.19.1007	301.7	Secure Decentralized Machine Identifiers for Internet of Things								
		60.19	60.19.1008	109	An Identity Management and Authentication Scheme Based on Redactable Blockchain for Mobile Networks								
		60.19	60.19.1009	35.1016	An overview of limitations and approaches in identity management								
		60.19	60.19.1010	110	VaultPoint: A Blockchain-Based SSI Model that Complies with OAuth 2.0								
		60.19	60.19.1011	60.1010	Refugees' loss of self-determination in UNHCR operations through the gaining of identity in blockchain technology								
		60.19	60.19.1012	60.1011	A Survey on Blockchain Interoperability: Past, Present, and Future Trends								
		60.19	60.19.1013	35.1018	A zero-knowledge-proof-based digital identity management scheme in blockchain								
		60.19	60.19.1014	35.1020	Trust-by-Design: Evaluating Issues and Perceptions within Clinical Passporting								
		60.19	60.19.1015	60.1014	Blockchain Consensuses Algorithms: A Survey								
		60.19	60.19.1016	60.1015	基于可信联盟的 P2P 网络身份认证机制								
		175.21	175.21.1001	37.29.1011	Blockchain Gateways, Bridges and Delegated Hash-Locks								
		175.21	175.21.1002	175	A lightweight trust management infrastructure for self-sovereign identity								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1001		Blockchain-based trusted data sharing among trusted stakeholders in IoT								
		301.9	301.9.1002	129	Self-sovereign identity for IoT environments: a perspective								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1003		Secure open federation of IoT platforms through interledger technologies-the SOFIE approach								
		301.9	301.9.1004	38.1025	Metrological challenges in collaborative sensing: Applicability of digital calibration certificates								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1005		OAuth 2.0 authorization using blockchain-based tokens								
		301.9	301.9.1006	131	Rethinking decentralised identifiers and verifiable credentials for the Internet of Things								
		301.9	301.9.1007	183.4	DIAM-IoT: a decentralized identity and access management framework for internet of things								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1008		A survey of methods guaranteeing user privacy based on blockchain in internet-of-things								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1009		The SOFIE approach to address the security and privacy of the IoT using interledger technologies								
		301.9	301.9.1010	37.29.1010	Gnomon: Decentralized identifiers for securing 5g IoT device registration and software update								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1011		Edge-centric delegation of authorization for constrained devices in the Internet of Things								
		301.9	301.9.1012	223	Enabling self-verifiable mutable content items in IPFS using Decentralized Identifiers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1013		Capability-based access control for multi-tenant systems using OAuth 2.0 and Verifiable Credentials								
		301.9	301.9.1014	146	Designing an academic electronic identity management system for student mobility using eIDAS eID and Self-Sovereign Identity technologies								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1015		OAuth-based authorization and delegation in smart home for the elderly using decentralized identifiers and verifiable credentials								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1016		SOFIE, Distributed Ledgers, and Decentralized Identifiers								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1017		Securing Device-to-Cloud Interactions in the Internet of Things Relying on Edge Devices								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1018		A comprehensive survey on secure software-defined network for the Internet of Things								
		301.9	301.9.1019	38.1115	Data Ownership: A Survey								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1020		Security Enhancement in Route Once and Cross-Connect Many (ROACM) Protocol								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	301.9	301.9.1021		Análise e aplicação da tecnologia blockchain na gestão de diplomas do ensino superior								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1001		An access control model for the Internet of Things based on zero-knowledge token and blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1002		Rethinking digital identity for post-COVID-19 societies: Data privacy and human rights considerations								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1003		Privacy budget management and noise reusing in multichain environment								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1004		Techniques for Private Transactions in Corporate Blockchain Networks								
		35.1018	35.1018.1005	38.1085	Decentralized Accreditation of Educational Attainments using Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1006		Hierarchical Identity-based Broadcast Cryptography and its Application in Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1007		Blockchain Technology for Security and Privacy in Energy Internet								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1008		Privacy preserving authentication system based on non-interactive zero knowledge proof suitable for Internet of Things								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1009		Zero-knowledge Based Proof-chain--A methodology for blockchain-partial system								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1010		A Design of Key Distribution Mechanism in Decentralized Digital Rights Management Based on Blockchain and Zero-Knowledge Proof								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1011		Blockchain's Feasibility in Military Data Networks								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1012		Blockchain: An Application on the Commercial Real Estate Leasing Market								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1013		A survey on e-voting based on blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1014		Chinese Dominance and Manipulation of the Global Cryptocurrency Economy								
		35.1018	35.1018.1015	322	Self-Sovereign Identity: A Primer and Call for Research in Information Systems								
		35.1018	35.1018.1016	35.1061	Privacy-preserving Identity Management System								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1017		Ushering a Trust-based Benefit Delivery Ecosystem in Rural India Powered by Blockchain								
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1018		A Survey on Authentication protocols for BlockChain Technologies And Cross-Chain Transactions								

Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	35.1018	35.1018.1019		Blockchain backed autonomous vehicles as a part of IoT: bachelor thesis									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	104.1004	104.1004.1001		Improved Constructions of Anonymous Credentials From Structure-Preserving Signatures on Equivalence Classes									
Second Iteration - Snowballing Totals														
Results	**943**													
Unique	**567**													
Duplicates	**255**													
Excluded by EC-1	**17**													
Excluded by not (IC-1 and IC-2)	**569**													
Included (Both IC-1 and IC-2)	**1**													
Third Iteration - Backwards Snowballing														
Researchers Evaluation		**Data Extraction Form**												
Schardong	**Custódio**													
REVIEW RESULT	**EVALUATE RESULT**	**From ID**	**Paper ID**	**Duplicate of**	**Title**	**Year**	**Authors**	**Published in**	**Add Concept**	**Remove Concept**	**Formal Model**	**Novel Problem**	**Proposed Solution**	
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.1		Adding attributes to role-based access control									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.2		Keeping authorities "honest or bust" with decentralized witness cosigning									
		37.29.1036	37.29.1036.3	66.12	Protocols for secure computations									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.4		Foundations of garbled circuits									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.5		How to exchange secrets with oblivious transfer									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.6		Zero-knowledge proofs of identity									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.7		Fast secure two-party ecdsa signing									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.8		Proactive two-party signatures for user authentication									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.9		Encrypted key exchange: Password based protocols secure against dictionary attacks									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.10		Strong password-only authenticated key exchange									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.11		Refinement and extension of encrypted key exchange									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.12		The secure remote password protocol									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.13		One-round protocols for two-party authenticated key exchange									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.14		Sigma: The 'sign-and-mac'approach to authenticated diffie-hellman and its use in the ike protocols									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.15		J-pake: authenticated key exchange without pki									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.16		A method for making password-based key exchange resilient to server compromise									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.17		Opaque: an asymmetric pake protocol secure against pre-computation attacks									
		37.29.1036	37.29.1036.18	37.29.1001	Federated authorization over access to personal data for decentralized identity management									
		37.29.1036	37.29.1036.19	58.33	The oauth 2.0 authorization framework									
		37.29.1036	37.29.1036.20	37.23	Decentralized identifiers (dids)									
		37.29.1036	37.29.1036.21	30.80	Verifiable credentials data model									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.22		The opaque asymmetric pake protocol									
		37.29.1036	37.29.1036.23	37.23	Rfc 7519: Token web jason (jwt)									
Exclude (Does not satisfy neither IC-1 nor IC-2)	Exclude (Does not satisfy neither IC-1 nor IC-2)	37.29.1036	37.29.1036.24		Bitcoin transaction malleability and mtgox									
Third Iteration - Forward Snowballing														
Researchers Evaluation		**Data Extraction Form**												
Schardong	**Custódio**													
REVIEW RESULT	**EVALUATE RESULT**	**From ID**	**Paper ID**	**Duplicate of**	**Title**	**Year**	**Authors**	**Published in**	**Add Concept**	**Remove Concept**	**Formal Model**	**Novel Problem**	**Proposed Solution**	
Third Iteration - Snowballing Totals														
Results	**24**													
Unique	**18**													
Duplicates	**6**													
Excluded by EC-1	**0**													
Excluded by not (IC-1 and IC-2)	**18**													
Included (Both IC-1 and IC-2)	**0**													

ID	Abstract	Keywords	Concepts
26	This document provides three main contributions. First, it details the Self-Sovereign Identity concept including its underlying blockchain technology. Second, related technologies are identified; evaluation criteria are defined and used to evaluate these technologies. Finally, the SSI potential is identified and described.	theoretical; definitions; concepts; requirements	Proposes six requirements for SSI systems
27	Centralised identity services that exist today fail to operate transparently and protect the rights of users. Single points of trust present constant operational risks for both companies and individuals. Self-sovereign identity is a solution to address this, which specifies a user-focused approach that gives full control of an identity back to the individual. This paper proposes the blockchain, a secure and decentralised trust-less system, as the platform to achieve this. A proof-of-concept identity system for the Ethereum blockchain is designed and developed in this paper. Smart contracts are used to facilitate the secure storage and open processing of user data. It also presents a novel approach to the secure recovery of encrypted private data. Emphasis is placed on the implementation security, information privacy and data recovery procedures of the system.	theoretical; definitions; concepts; requirements	Despite implementing a SSI system, introduce a few requirements which can be used for all SSI systems.
30	Self-sovereign identity management is a new paradigm, ignited by blockchain technology. The field of identity management currently faces issues in multiple areas. Identity theft and data breaches are not uncommon, and are often the result of insecure identity management practices. Identity management is largely centralized, harming the privacy of subjects. The general public has to trust large corporations and governments to correctly handle their personal data. In contrast to centralised identity management, the self-sovereign identity paradigm places the subject central to their own administration. To facilitate a self-sovereign identity system, a decentralized information system is needed. Blockchain technology might fulfil this need, as it makes use of a distributed ledger, on which consensus about its state is reached by decentralised cryptographic protocols. However, as with most emergent technologies, there is a lack of scientific research into the concept of self-sovereign identity. Therefore, this research answered the following research question: "what are the system requirements for a regulatory compliant Self-Sovereign Identity information system, and how can blockchain technology solutions serve as a solid foundation?" To be able to formulate an answer to this question, a set of requirements and constraints have been developed by using design science research. Two design iterations have been conducted. In the first iteration, an initial set of requirements have been developed through introspection and semi-structured interviews with industry experts from multiple industries. In the second iteration, the set of requirements and constraints have been analysed and optimised, and sent to the same industry experts for peer-review. After the set of requirements and constraints were developed, blockchain technology is evaluated using partial requirement satisfaction. Lastly, two practical and current state-of-the-art implementations, namely Sovrin and uPort, have been evaluated using binary requirement satisfaction. At this moment, Sovrin better satisfies the requirements. Based on the findings, we can conclude that indeed, blockchain can serve as a solid foundation for a self-sovereign identity system. However, it became evident that blockchain is not an absolute solution, additional technology is needed. Blockchain does aid in maintaining integrity of personal data and providing subjects the freedom to privately exchange verifiable claims about their identity, with a lower need for trust in large institutions.	theoretical; definitions; concepts; requirements	Through expert interview, a set of requirements were conceived for a SSI system
34	Removing the need for a trusted third party, blockchain technology revolutionizes the field of identity management. Service providers rely on digital identities to securely identify, authenticate and authorize users to their services. Traditionally, these digital identities are offered by a central identity provider belonging to a specific organisation. Trust in the digital identity mainly originates from the identity provider's reputation, organizational functioning and contractual obligations. Blockchain technology enables the creation of decentralized identity management without a central identity provider as trusted third party. Therefore, the derivation of trust in digital identities within this paradigm requires a distinct approach. In this paper we propose a novel general quantifiable trust model and a specific implementation variant for blockchain-based identity management. Applying the model, trust is deduced in a decentralized manner from attestations of claims and applied to the associated digital identity. This concept replaces trust with a central identity provider by aggregated trust into attestation issuers. Thus, promoting self-sovereign identities to be fit for purpose. The calculated numerical trust metric serves as independent basis for the definition of assurance levels to simplify and automate reasoning about trust by service providers without requiring a dedicated evaluation of a trusted third party.	application; trust; distributed ledger; reputation; trust model	a trust model for blockchain based SSI
35	Digital identity is unsolved: After many years of research there is still no trusted communication over the Internet. To provide identity within the context of mutual distrust, this paper presents a blockchain-based digital identity solution. Without depending upon a single trusted third party, the proposed solution achieves passport-level legally valid identity. This solution for making identities Self-Sovereign, builds on a generic provable claim model for which attestations of truth from third parties need to be collected. The claim model is then shown to be both blockchain structure and proof method agnostic. Four different implementations in support of these two claim model properties are shown to offer sub-second performance for claim creation and claim verification. Through the properties of Self-Sovereign Identity, legally valid status and acceptable performance, our solution is considered to be fit for adoption by the general public.	theoretical; definition; concept; claim format; claim metamodel; verifiable claims;	Proposed a metamodel for claims and the requirement that claims must be verifiable in a SSI system
37	Self-sovereign identity promises prospective users greater control, security, privacy, portability and overall greater convenience; however the immaturity of current distributed key management solutions results in general disregard of security advisories in favour of convenience and accessibility. This research proposes the use of intermediate certificates as a distributed key management solution. Intermediate certificates will be shown to allow multiple keys to authenticate to a single self-sovereign identity. Keys may be freely added to an identity without requiring a distributed ledger, any other third-party service or sharing private keys between devices. This research will also show that key rotation is a superior alternative to existing key recovery and escrow systems in helping users recover when their keys are lost or compromised. These features will allow remote credentials to be used to issuer, present and appraise remote attestations, without relying on a constant Internet connection.	application; certificates; key-rotation; recovery; key management;	propose key rotation for soverign entities instead of key recover through DID's key rotation
38	This paper provides an overview of the Self-Sovereign Identity (SSI) concept, focusing on four different components that we identified as essential to the architecture. Self-Sovereign Identity is enabled by the new development of blockchain technology. Through the trustless, decentralised database that is provided by a blockchain, classic Identity Management registration processes can be replaced. We start off by giving a simple overview of blockchain based SSI, introducing an architecture overview as well as relevant actors in such a system. We further distinguish two major approaches, namely the Identifier Registry Model and its extension the Claim Registry Model. Subsequently we discuss identifiers in such a system, presenting past research in the area and current approaches in SSI in the context of Zooko's Triangle. As the user of an SSI has to be linked with his digital identifier we also discuss authentication solutions. Most central to the concept of an SSI are the verifiable claims that are presented to relying parties. Resources in the field are only loosely connected. We will provide a more coherent view of verifiable claims in regards to blockchain based SSI and clarify differences in the used terminology. Storage solutions for the verifiable claims, both on- and off-chain, are presented with their advantages and disadvantages.	theoretical; definitions; concept; components	On top of Allen's principles, four components are defined as essential.
45	In this paper we present reclaimID: An architecture that allows users to reclaim their digital identities by securely sharing identity attributes without the need for a centralised service provider. We propose a design where user attributes are stored in and shared over a name system under user-owned namespaces. Attributes are encrypted using attribute-based encryption (ABE), allowing the user to selectively authorize and revoke access of requesting parties to subsets of his attributes. We present an implementation based on the decentralised GNU Name System (GNS) in combination with ciphertext-policy ABE using type-1 pairings. To show the practicality of our implementation, we carried out experimental evaluations of selected implementation aspects including attribute resolution performance. Finally, we show that our design can be used as a standard OpenID Connect Identity Provider allowing our implementation to be integrated into standard-compliant services.	application; attribute management; authorization; revoke; claim management;	propose to manage attributes (provided by IDPs) by versioning attributes and granting and revoking access to attributes through tickets
53	The self-sovereign identity management model emerged with the rise of blockchain technology. This paradigm focuses on user-centricity and strives to place the user in full control of the digital identity. Numerous implementations embrace the self-sovereign identity concept, leading to a fragmented landscape of solutions. At the same time, traditional identity and access management protocols are largely disregarded and facilities to issue verifiable claims as attributes are not available. Therefore, service providers barely adopt these solutions. We propose a component-based architecture for integrating self-sovereign identity solutions into web applications to foster their adoption by service providers. Furthermore, we outline a sample implementation as a gateway that enables uPort and Jolocom for authentication, via the OpenID Connect protocol, as well as the retrieval of email address attestations for these solutions.	integration; adoption; authentication; authorization;	a framework for integration non-SSI apps and non-SSI identity and attribute providers with SSI-users
57	Identity management is an essential cornerstone of securing online services. Service provisioning relies on correct and valid attributes of a digital identity. Therefore, the identity provider is a trusted third party with a specific trust requirement towards a verified attribute supply. This trust demand implies a significant dependency on users and service providers. We propose a novel attribute aggregation method to reduce the reliance on one identity provider. Trust in an attribute is modelled as a combined assurance of several identity providers based on probability distributions. We formally describe the proposed aggregation model. The resulting trust model is implemented in a gateway that is used for authentication with self-sovereign identity solutions. Thereby, we devise a service provider specific web of trust that constitutes an intermediate approach bridging a global hierarchical model and a totally decentralized peer to peer scheme.	application; attribute management; descentralized attribute management; trust; reputation	calculates trust from multiple attribute providers where the RP assigns a probability of validity for attributes from different IDPs
58	We live in a connected world that requires us to identify ourselves every time we want to access our emails, work stations, bank accounts, health care records, etc. Every system we interact with requires us to remember a username/password combination, have access to some private/public key pair, a hardware token, or some third party authentication software. Our digital identity is owned by the services we are trying to access, no longer under our control. Self-Sovereign Identity promises to give back control of his or her identity to the user. It is in this context that we explore the use of biometrics in order to empower users to be their own passwords, their own keys, their own means to authenticate themselves. We propose Self-Sovereign Biometric IDs (Selffis), a novel approach that marries the concepts of decentralization, cancelable biometrics, bloom filters, and machine learning to develop a privacy-first solution capable of allowing users to control how their biometrics are used without risking their raw biometric templates.	application; authentication; biometric; identification	developed a cancelable biometric by using filters, noise and one-way functions on a user's selfie
60	In recent times, with the advent of blockchain technology, there is an optimism surrounding the concept of self-sovereign identity which is regarded to have an influential effect on how we interact with each other over the Internet in future. There are a few works in the literature which examine different aspects of self-sovereign identity. Unfortunately, the existing works are not methodological and comprehensive at all. Moreover, there exist different notions of what the term self-sovereign identity means. To exploit its full potential, it is essential to ensure a common understanding in a formal way. This paper aims to achieve this goal by providing the first-ever formal and rigorous treatment of the concept of self-sovereign identity using a mathematical model. This paper examines the properties that a self-sovereign identity should have and explores the impact of self-sovereign identity over the laws of identity. It also highlights the essential life-cycles of an identity management system and inter-relates how the notion of self-sovereign identity can be applied in these life-cycles. In addition, the paper illustrates several envisioned flows involving a self-sovereign identity leveraging blockchain technology covering different aspects of an identity management system. All in all, this paper presents the first formal and comprehensive step toward an academic investigation of self-sovereign identity.	theoretical; formalization; mathematical definitions;	introduce mathematical formalizations and new concepts to SSI
65	Self-sovereignty is a paradigm shift for digital identity that promises important benefits but lacks a definitional consensus. Herein, we validate nine properties of self-sovereignty proposed by credible sources, propose five new properties, and apply the features of our architecture for digital identity to reason about and validate these properties.	theoretical; new concepts;	introduce five new properties and refute three from Allen
66	Recent years have seen an increased interest in digital wallets for a multitude of use cases including online banking, cryptocurrency, and digital identity management. Digital wallets play a pivotal role in the secure management of cryptographic keys and credentials, and for providing certain identity management services. In this paper, we examine a proof-of-concept digital wallet in the context of Self-Sovereign Identity and provide a practical decentralized key recovery solution using Shamir's secret sharing scheme and Hyperledger Indy distributed ledger technology.	application; wallet; key management; credential management; backup; recovery; group	digital wallet to store identity, keys, credential in secure enclave of mobile devices. Splits keys to multiple trusted peers for recovery
68	Self-sovereign Identity (SSI) powered by distributed ledger technologies enables more flexible and faster digital identification workflows, while at the same time limiting the control and influence of central authorities. However, a global identity solution must be able to handle myriad credential types from millions of issuing organizations. As metadata about types of digital credentials is readable by everyone on the public permissioned ledger with Hyperledger Indy, anyone could find relevant and trusted credential types for their use cases by looking at the records on the blockchain. To this date, no efficient full-text search mechanism exists that would allow users to search for credential types in a simple and efficient fashion tightly integrated into their applications. In this work, we propose a full-text search framework based on the publicly available metadata on the Hyperledger Indy ledger for retrieving matching credential types. The proposed solution is able to find credential types based on textual input from the user by using a full-text search engine and maintaining a local copy of the ledger. Thus, we do not need to rely on information about credentials coming from a very large candidate pool of third parties we would need to trust, such as the website of a company displaying its own identifier and a list of issued credentials. We have also proven the feasibility of the concept by implementing and evaluating a prototype of the full-text credential metadata search service.	application; search; text-search; metadata; credential; attribute; claims; claims search; attribute search; credential search; credential metadata; claims metadata; meta;	introduced the problem of searching for claims/credentials metadata search and presented a solution for it
74	Digital identity systems has been around for almost as long as the computer and have evolved with the increased usage of online services. Digital identities have traditionally been used as a way of authenticating to the computer systems at work, or a personal online email. Today, our entire lives have a digital counterpart that become an integral part of everyday life. Self-Sovereign Identity (SSI) is the next step in the evolution of digital identity management systems and distributed ledgers have provided necessary building blocks for Self-Sovereign Identity Systems. But what exactly is an Ideal Self-Sovereign Identity? In this research we propose a definition and set of principles to characterizes the nature of successful SSI systems. Based on our criteria and principles we present a systematic analytical study of the current SSI landscape, represented by uPort, Sovrin, ShoCard, and Civic. A system for truly self-sovereign online identities are not yet archived in the current state of the field. It is our conclusion that it is paramount that a non-profit organization or academia take the reins on this effort and deliver a standardized way of managing online identities.	theoretical; definition; concepts; requirements	Rewrite Allen's ten principles focusing on why they are needed, removed Existence and added Unrestricted
82	Blockchain, which is a useful tool for providing data integrity, has emerged as an alternative to centralized servers. Concentrating on the integrity of the blockchain, many applications have been developed. Specifically, a blockchain can be utilized in proving the user's identity using its strong integrity. However, since all data in the blockchain is publicly available, it can cause privacy problems if the user's identity is stored in the blockchain unencrypted. Although the encryption of the private information can diminish privacy problems in the blockchain, it is difficult to transparently utilize encrypted user information in the blockchain. To provide integrity and privacy of user information simultaneously in the blockchain, we propose a SIMS (Self-Sovereign Identity Management System) framework based on a zk-SNARK (zero-knowledge Succinct Non-interactive ARgument of Knowledge). In our proposed SIMS, the user information is employed in a privacy-preserving way due to the zero-knowledge property of the zk-SNARK. We construct a SIMS scheme and prove its security. We describe applications of SIMS and demonstrate its practicality through efficient implementations.	application; definitions; proofs; implentation; identity creation; identity management; zero-knowledge proof; attribute claim; verifiable claim	A zero-knowledge proof system that creates identities and attributes, and statement/claims about attributes without revealing them.
99	The self-sovereign identity (SSI) model entails the full responsibility and sovereignty of a user regarding his identity data. This identity data can contain private data which is solely known to the user. The user himself is therefore required to manage the whole lifecycle of his private data, including the backup and restore. We show that prior work on how to backup and restore the user's identity data does not meet the requirements of the SSI setting, and we present the first solution which does meet the requirements. Authenticated backup with auditing by remote entities (AWARE) combines SSI sustaining aspects and extends them to create a truly self-sovereign backup-and-restore protocol. In AWARE, trusted, physically met humans, called custodians, hold a secure device. Custodians with a secure device offer an offline backup possibility and a secure channel. The backup and restore are audited by commits on a publicly accessible distributed ledger. These commits are answered by auditing services which are required during restore. Only some auditing services hold relevant data for a restore. The self sovereignty of the user lies in the exclusive information which auditing services hold relevant data. AWARE is the first backup-and-restore mechanism that fully complies with the SSI model. We perform an in-depth security-risk analysis of AWARE, showing a risk rating which is comparable to the best risk rating o related non-SSI-compliant backup-and-restore mechanisms. We instantiate the AWARE protocol with cryptographic primitives providing a high security level of 256-bit. We show its implementation feasibility by providing a simulation of AWARE, and conclude with an estimated performance analysis on a microcontoller architecture based on our simulation and implementation results in the literature.	theoretical; application; recovery; restoration; backup; audit	trusted offline peers are used to backup data
100	Digital identity systems have been around for almost as long as computers and have evolved with the increased usage of online services. Digital identities have traditionally been used as a way of authenticating to the computer systems at work, or a personal online service, such as an email. Today, our physical existence has a digital counterpart that became an integral part of everyday life. Self-Sovereign Identity (SSI) is the next step in the evolution of the digital identity management systems. The blockchain technology and distributed ledgers have provided necessary building blocks and facilities, that bring us closer to the realisation of an ideal Self-Sovereign Identity. But what exactly is an ideal Self-Sovereign Identity? What are the characteristics? Trade-offs? Here, we propose the framework and methodology that can be used to evaluate, describe, and compare SSI systems. Based on our comparison criteria and the evaluation framework, we present a systematic analytical study of existing SSI systems: uPort, Sovrin, ShoCard, Civic, and Blockstack.	theoretical; requirement; comparison; evaluation; characteristics	Introduce "usability" as a requirement
104	As centralized identity management solutions amass identity data, they increasingly become attractive targets for cyber attacks, which entail consequences for users that range from service disruptions to exposure of sensitive user data. Self-sovereign identity (SSI) strives to return the control over identity data to the users by building on decentralized architectures. However, the adoption of SSI systems is currently hampered by a lack of qualified identity data that satisfies the services' requirements. Additionally, there is a gap w.r.t the user's privacy: Intermediate components (e.g., importers or SSI network nodes) learn the users' sensitive attributes during the derivation of eID data. In this work, we present a decentralized eID derivation concept that preserves the users' privacy while maintaining the data's trustworthiness without revealing the plain data to any component outside the users' control. Our proposed system also enables users to selectively disclose only relevant parts of the imported identity assertion according to the service's requirements. We also implement and evaluate a proof-of-concept to demonstrate the feasibility and performance of our concept.	application; identity; identity creation; import identity; identity derivation; adoption; integration	Introduced an identity derivation concept to import identity from conventional providers to SSI
107	There are too few systematic architecture designs for blockchain-based self-sovereign identity (SSI) systems to support methodical development. We present an SSI platform that advances the notion of the design pattern as a service. We implement a prototype and evaluate it for feasibility and scalability.	design pattern; lifecycle;	introduced a series of design patterns considering the lifecycle of different components of a SSI system
109	More and more users are eager to obtain more comprehensive network services without revealing their private information. Traditionally, in order to access a network, a user is authorized with an identity and corresponding keys, which are generated and managed by the network operator. All users' personally identifying information are centralized stored by the network operator. However, this approach makes users lose the control of their personally identifying information. Users are concerned about who can access these sensitive data and whether they have been compromised. In this paper, we propose a blockchain-based identity management and authentication scheme for mobile networks, where users' identifying information are controlled by the users themselves. Our scheme let users generate their self-sovereign identities (SSIs) and corresponding public keys and private keys. The private key used to authenticate the user's identifying information is only known to the user. We use blockchain to record SSIs and public keys of legitimate user, and adopt chameleon hash to delete illegal users' information on the blockchain, while keeping the block head unchanged. Furthermore, other service providers can obtain the user's SSI and public key and authenticate users by querying the blockchain. Experimental results confirm that our scheme can greatly reduce the revocation overhead and communication overhead.	application; distributed ledger; revocation; revocation list; chameleon hash; redactable blockchain	use chameleon hash to update a distributed ledger and remove false claims/users instead of requiring users to maintain a traditional revocation list
110	An identity management including authentication and authorization in a network environment is a critical security factor. Various models for identity management have been developed continually, from the silo model to the federated model and to the recently introduced self-sovereign identity (SSI) model. In particular, SSI makes users manage their own information by themselves independently of any organizations. SSI utilizes the newly emerged blockchain technology and many studies of it are in progress. However, SSI has not had wide public use because of its low compatibility and inconvenience. This is because it involves an unfamiliar user experience and an immature process. To solve this problem, this paper proposes a new blockchain-based SSI model that complies with the popular and mature standard of OAuth 2.0. Using blockchain, the proposed model secures users' data sovereignty where users can use and control their own information in a decentralized manner, instead of depending on a specific monopolistic service-providers. Users and clients who are familiar with the existing OAuth can easily accept the proposed model and apply it, which makes both usability and scalability of the model excellent. This paper confirmed the feasibility of the proposed model by implementing it and a security analysis was performed. The proposed model is expected to contribute to the expansion of both blockchain technology and SSI.	application; compatibility; oAuth; authentication; distributed ledger	blockchain bassed SSI system with oAuth 2.0 compatibility for easy integration with current applications
113	Self-Sovereign Identity (SSI) is a new paradigm in digital identity systems that puts the end-user in control: no other actor manages, permits or revokes their digital existence. TrustChain is an academic peer-to-peer networking stack supporting SSI. It delivers passport-grade assurance by integrating with Dutch government. However, end-user control requires a programmed user agent with a human interface and protocols that enable meaningful communication with issuers and verifiers of identity data. This agent must be inter-operable with a large variety of parties and credentials. TrustChain lacks such an interface and protocols. This thesis makes three main contributions. First, a theoretical framework is proposed for aligning notions of self-sovereignty across contexts, borders and cultures. It provides more detailed, focused and structured discourse than other work and helps consolidate design efforts. Second, a design project is done in collaboration with the Kamer van Koophandel (KVK). It focuses on `authorisation by legal entities', a class of identity problems that have no satisfactory solution yet. Third, a generic common `semantic layer' is prototyped, consisting of a smartphone based user agent and communication protocols. Its wallet-centric approach allows end-users to retrieve their data without leaving the app. The practical value of this prototype is evaluated at a construction site. The case study shows that the Kamer van Koophandel, like other government institutions, can be a valuable data provider. However, their current legal framework and business model may restrict them. Absence of such vital institutions invites commercial parties to close the gap, threatening privacy and independence of end-users. Finally, this work has three implications for TrustChain. First, attestation metadata must be considered confidential. Second, single-sided public revocation is required to ensure credential actuality without re-issuing. And third, non-interactive verification enables the construction of chains of untrusted issuers. This is a valuable feature as it enables individuals, not just organisations, to issue claims to others.	theoretical; new concepts; informal definition to SSI	build new concepts on top of Christopher Allen's ten principles of SSI and Kim Cameron's Seven Laws of identity; "proposes a new model to debate, analyse, design for and evaluate digital self-sovereignty"
114	Self-sovereign Identity promises to give users control of their own data, and has the potential to foster advancements in terms of personal data privacy. Self-sovereign concepts can also be applied to other entities, such as datasets and devices. Systems adopting this paradigm will be decentralised, with messages passing between multiple actors, both human and representing other entities, in order to issue and request credentials necessary to meet individual and collective goals. Such systems are complex, and build upon social and technical interactions and behaviours. Modelling self-sovereign identity systems seeks to provide stakeholders and software architects with tools to enable them to communicate effectively, and lead to effective and well-regarded system designs and implementations. This paper draws upon research from Actor-based Modelling to guide a way forward in modelling self-sovereign systems, and reports early success in utilising the iStar 2.0 framework to provide a representation of a birth registration case study.	model; SSI modeling	introduce the problem of how to model actors, actors' goals, messages, credentials, interactions in SSI

117	Access management using the Web seems to be heading for failure. While the Web offers a lot of convenience, the negative aspects of the shadow are increasing, such as fake news, slander, flaming, fraud, and kidnapping that exploits the irresponsible anonymity of the Internet. In this paper, as a solution, we examine a method of constructing a social graph from the access history of information recorded on the hyper ledger based on anonymous credentials and blockchain. In this scheme, information is delivered through many "friends" while securing authentication and authorization at the network layer level with a certified cryptographic protocol. The final decision is made by a human who has gained AI support while viewing the social graph. In the process, it is also revealed which “friend” owns which information. With this scheme, the true value of the Web can be brought closer to the original ideal while achieving the effect of "People get their personal information back from the digital giants" that the MIT project Solid of Sir Tim Berners-Lee is aiming.	application; trust; reputation	Reputation system for evaluating trust
127	In general, ID-based proxy re-encryption has the form of transferring data in a 1:1 manner between a data owner and data requestor. Therefore, only the data owner has the authority to decrypt or re-encrypt data encrypted with their public key. However, in an environment with data self-sovereignty, such as a personal health record, data are managed directly. In such circumstances, if the owner of the data becomes unconscious or unable to control the data, there is no way to obtain the data.	theoretical; formalization; trust; group key management; key management	formalized a system where individuals form groups of trusted peers that can decipher data cyphered by the individual, but can not derive his private key
130	Digital identity is one of the biggest challenges in cyberspace. This field has been evolving for many decades with a number of Identity Management (IDM) models being proposed and employed; however, few were able to solve the issue of sovereignty of an identity and storage-control of its associated personal and confidential data. Self-Sovereign Identity (SSI) was introduced to solve this crucial issue offering a user full sovereignty of their identity and storage-control of their associated personal and confidential data. Alongside ownership of an identity, it maintains all private information in a Digital Wallet which is owned and controlled by the user. However, SSI is an emerging IDM, therefore it requires careful evaluation of various aspects of SSI for it to become an operative IDM. This paper proposes several specifications to evaluate any SSI solution. Subsequently, it analyses two emerging SSI solutions uPort and Sovrin. Finally, an evaluation of uPort and Sovrin SSI is performed utilising the proposed specifications, highlighting their strengths and limitations.	theoretical; specifications; evaluate	15 high-level, conceptual definitions are introduced (overlapping other people's concepts) that need to be fulfilled for a solution to be SSI.
144	Several working groups are coping with an ecosystem in which a user manages his/her own digital identity (ID) information among different organizations or companies in a decentralized manner. Accordingly, we developed a platform for trusted ID exchange called IDentity eXchange. In the platform, the personal identity verification process will be realized by verifying credentials about users' information issued by other organizations. Through this kind of ID cooperation, users can prove their ID online using the credentials and will no longer need to take procedure for every organization when updating their ID information registered there. To update their ID information among multiple organizations, users have to plan a schedule that represents an order of ID cooperation requests from each organization to other organizations. However, the organizations' policies to identify a user and relationships among the organizations make the scheduling problem a complicated one. In this study, we formulate a scheduling problem in the cooperative network as an integer linear program and propose a heuristic method based on the graph structure. Numerical experiments show that the heuristic approach has feasible scalability for practical use. Finally, we discuss other use cases of the proposed formulation, especially regarding logistics management, such as vehicle scheduling for transporting products from suppliers to consumers.	identity; trust; score; credentials; update credentials; scheduling problem;	once a person updates data about itself, which might be in self-issued or third-party issued credential, how to share this new information with all relying parties that had its previous version? Authors model this problem as an ILP considering different levels of trusts between RPs.
148	Authentication with username and password is becoming an inconvenient process for the user. End users typically have little control over their personal privacy, and data breaches effecting millions of users have already happened several times. We have implemented a proof of concept decentralized OpenID Connect Provider by marrying it with Self-Sovereign Identity, which gives users the freedom to choose from a very large pool of identity providers instead of just a select few corporations, thus enabling the democratization of the highly centralized digital identity landscape. Furthermore, we propose a verifiable credential powered decentralized Public Key Infrastructure using distributed ledger technologies, which creates a straightforward and verifiable way for retrieving digital certificates.	application; identity; identity derivation; import identity; claims; attributes	OpenID connector that transforms federated identities in SSI identities
150	Self-sovereign identities provide user autonomy and immutability to individual identities and full control to their identity owners. The immutability and control are possible by implementing identities in a decentralized manner on blockchains that are specially designed for identity operations such as Hyperledger Indy. As with any type of identity, self-sovereign identities too deal with Personally Identifiable Information (PII) of the identity holders and comes with the usual risks of privacy and security. This study examined certain scenarios of personal data disclosure via credential exchanges between such identities and risks of man-in-the-middle attacks in the blockchain based identity system Hyperledger Indy. On the basis of the findings, the paper proposes the following enhancements: 1) A novel attribute sensitivity score model for self-sovereign identity agents to ascertain the sensitivity of attributes shared in credential exchanges 2) A method of mitigating man-in-the-middle attacks between peer self-sovereign identities and 3) A novel quantitative model for determining a credential issuer's reputation based on the number of issued credentials in a window period, which is then utilized to calculate an overall confidence level score for the issuer.	attribute sensitivity score; agent presenting claims; reputation of issuers; trust	a recomendation system regarding the sensitivity of private information; a trust model;
158	Identity management systems enable users (i.e., provers) to authenticate and provide attributes to verifiers by using certified credentials obtained from an authority. To accept such a credential, verifiers require information on whether the presented credentials are still valid or if they have been revoked. Up-to-date revocation information can be obtained from a revocation database; however, this requires that the verifier or prover is online. The problem becomes more intricate if the offline case when the prover (e.g., citizen) and verifier (e.g., police officer) do not have an Internet connection to query the revocation status of the presented credential (e.g., digital driver's license). In this paper, we extend the Self-Sovereign Identity (SSI) model to support both revocation as well as offline-verification. Our concept introduces attestations of validity for a point in time, which are issued by the SSI network for credentials that have not been revoked, i.e., added by authorized entities to a revocation list. The concept aims to be generic so that it can be used for various use cases, e.g., by giving users the control over the frequency of re-attestation. To show our concept's feasibility and practicality, we developed and evaluated an implementation that includes an efficient and privacy-preserving showing of credentials using noninteractive zero-knowledge proofs, all while being offline.	credentials; offline credentials; offline revocation of credentials; offline verification of credentials status	SSI infrastructure generates attestation that a given credential was not revoked at a specific time. This attestation can be used offline.
175	Decentralized approaches towards digital identity management, often summarized under the currently popular term Self-sovereign identity (SSI) are being associated with high hopes for a bright future of identity management (IdM). Numerous private, open source as well as publicly funded research initiatives pursue this approach with the aim to finally bring universally usable, trustworthy, interoperable, secure, and privacy friendly digital identities for everyone and all use cases. However, a major challenge that so far has been only rudimentary addressed, is the trust management in these decentralized identity ecosystems. This paper first elaborates this problem before presenting an approach for a trust management infrastructure in SSI ecosystems that is based on already completed work for trust management in digital transactions.	trust; trust model; trust policy;	decides if an entity can be trusted if it is on any trust list published by trusted entities
176	In this paper we explore the problem of secure handling of private keys in blockchain applications. We present a novel approach, named “Partial Knowledge Recovery Scheme” (PKRS), which allows for the recovery of an encrypted private key through the use of personal security questions. In PKRS, an individual is asked a set of questions, and the answers to those questions are used to encrypt the input and produce a secured private key. Through the use of Shamir's secret sharing algorithm, the original private key can be recovered if the individual can answer correctly only a subset of the original questions. PKRS does not require any external services for the recovery process, since all the required information is stored within the secured private key itself. This approach tries to achieve a middle ground between security and usability. Security, where the private key needs to be encrypted and safely stored offline. Usability, where an individual wants to be able to recover their private key without the need of an easily forgotten passphrase and be able to store it in their personal cloud environments. We also discuss the correct design of personal security questions in social environments where an individual's personal data can be mined through public records and social networks. Finally, we present a blockchain Self-sovereign Identity use case, which was used for the integration and evaluation of PKRS within a real-world application.	private key recovery; key recovery; usability	a trade-off between security and usability to recover private key using shamir's secret sharing
179	In this paper, a subject-centric structure is proposed that improves the holder-centric structural problems of verifiable credentials developed for self-sovereign identities. Holder-Centric structured verifiable credentials represent a structure in which a holder can control the credentials even if it is not a subject. This structure allows the holder to attempt authentication or transfer credentials without the subject's permission. The subject may lose some control over the credential, thus losing the meaning of self-sovereign identity. We propose a subject-centric structure that allows the subject to control over the transferred verifiable credentials.	W3C credential; credential delegation; delegation; representation;	propose a way to delegate credentials that alerts the subject when the credential is used, who decides to accept or deny
180	Trust policies enable the automated processing of trust decisions for electronic transactions. We consider the Trust Policy Language TPL of the LIGHTest project [Mö19] that was designed for businesses and organizations to formulate their trust policies. Using TPL, organizations can decide if and how they want to rely on existing trust schemes like Europe's eIDAS or trust scheme translations endorsed by them. While the LIGHTest project is geared towards classical approaches like PKI-based trust infrastructures and X.509 certificates, novel concepts are on the rise: one example is the self-sovereign identity (SSI) model that enables users better control of their credentials, offers more privacy, and supports decentralized solutions. Since SSI is based on distributed ledger (DL) technology, it is a question of how TPL can be adapted so that organizations can continue to enjoy the benefits of flexible policy descriptions with automated evaluation at a very high level of reliability. Our contribution is a first step towards integrating SSI and the interaction with a DL into a Trust Policy Language. We discuss this on a more conceptual level and also show required TPL modifications. We demonstrate that we can integrate SSI concepts into TPL without changing the syntax and semantics of TPL itself and have to add new formats and introduce a new built-in predicate for interacting with the DL. Another advantage of this is that the “business logic” aspect of a policy does not need to change, enable re-use of existing policies with the new trust model.	trust; trust model; automated trust decision; trust policy language; language for trust policy; automated evaluation of trust;	extend the TPL language to work with SSI tools such as DIDs and VCs
181	The mechanisms and evolving standards collectively known as self-sovereign identity (SSI) offer the prospect of a decentralized Internet by providing a central pillar for a human-centered data ecosystem (HCDE). Once established this technology promises to afford participants the same agency in the digital realm as individuals experience in the real world. Investigation suggests that the domain is now sufficiently mature to realize practically the principles of SSI, but in order to achieve sustainable adoption, significant design focused work needs to be undertaken at the interface layer. This paper presents recent practice-led research designed to project current SSI prototypes to scale through conceptual modeling, preliminary user interface, and critical analysis. This research introduces the term sovereign boundary mechanism (SBM), a standardized collection of SSI interactions, which can be described as a metaphorical ring of sovereignty between the participant and the wider network. Within this model, participants control identity, relationships, and data streams and access control. This research identifies the domains of interaction and the minimum required objects for a full-scale SSI engagement through an SBM. It defines the component parts and functionality of a wider HCDE which require further consideration, and it identifies emergent concepts for which a participant may lack mental model and understanding. The research considers human computer interaction (HCI) theory across internalized, external, and distributed cognition, arguing that the current trajectory of SSI requires significant internalized representations, prior knowledge, and participant responsibility. This research argues that these elements are problematic and pose a significant barrier to sustainable adoption. In conclusion, this research suggests that the decentralized community needs to recognize the obstacle potentially posed at the interface layer and engage in collective standardization, strategy, and design thinking to increase the probability of sustainable adoption.	human computer interaction; HCI; SSI interactions; interfaces	studies the interactions in SSI, maps high-level functionalities and proposes user interfaces
183	Decentralized Identifiers (DIDs) are a technology that allows individuals to realize self-sovereign identity. The advantage of the DIDs is that individuals can decide what information to disclose and transparently review the details of the disclosed information. In the core architecture of DIDs, a DID document associated with a DID is derived, and this document is open to the public to access. However, DID service properties in the DID document raises a dataveillance problem. In this paper, we analyze the risks of leaking sensitive information that may be included in the DID authentication process through a scenario.	W3C DID; identifier; leak information; privacy	DID document may leak information through the URL in the serviceEndpoint, which follows conventional naming of URLs and contain domain identifiers. Authors argue that serviceEndpoint should not be public or at least use non-revealing URLs.
184	Self-sovereign Identity Management (SSIM) promotes self-control of credentials without relying on external administration. However, the state-of-the-art SSIM based on Decentralized Identifiers and Verifiable Credentials (VCs) defined by the World Wide Web Consortium does not enable credential holders to verify whether a Credential Issuing Authority (CIA) legitimately issued a credential. As a remedy, our work constructs a secure authentication protocol, called A-PoA, to provide decentralized and anonymous authorization of CIAs. We leverage a cryptographic accumulator to control-of-failure storage memory for verifying a Credential Schema) with the ability to authorize a CIA (registering a Credential Definition) t o i ssue a c redential. T he p roof o f accumulator membership relies on a non-interactive zero-knowledge proof. This allows a credential holder or validator node to verify the validity of a CIA, while the CIA remains anonymous. Our security analysis shows the integrity and confidentiality of our protocol against hostile network participants and our experimental evaluation shows constant verification t imes independent of the number of authenticated CIAs. Hence, A-PoA introduces the missing building block to develop SSIM-capable and VC-compatible ecosystems acting as a drop-in replacement for traditional Public Key Infrastructure schemes.	W3C credential; credential; hyperleder indy; schemas; credential definition; PKI; cryptographic accumulator;	Create an anonymous PKI in Indy's credentials using cryptographic accumulators.
218	The data on the Web is increasingly being centralised towards a few service providers. Personal Data Stores (PDS) have emerged, proposing a fundamental shift from the current service-centric data ecosystem to a decentralised data storage and processing environment by placing the data with users. Users are to assume total self-sovereignty over their data, including opportunities to monetise. While PDS systems enable user empowerment, they also put a greater burden on the users, who may not be technically-savvy, to manage data access, which may increase the chance of unintended mishaps and privacy risks. This research proposes a privacy preference recommender system for privacy-preserving data sharing control that is designed to work with the constraints of user-centric data storage and processing environment for PDS. The outcome contributes towards a user-assisting privacy technology that utilises user context effectively to recommend privacy settings while conforming to the PDS architecture by storing and processing all analytics locally.	recommender system; privacy; HCI;	propose a tool to provide recommendations about sharing user data for incoming requests based on the user's behavior and feedback on previous decisions
229	Self-sovereign identity (SSI) systems are novel blockchain-based solutions that are said to shift the control of data records from organizations to individuals. Contrary to conventional blockchains, such as Bitcoin or Ethereum, many SSI systems do not capture or ledger the exchange of transactional data between individuals. By not capturing the exchange of transaction data such SSI systems have the advantage of complying with privacy regulations such as the EU's General Data Protection Regulations, but, at the same time, have the disadvantage of not capturing evidence that an exchange has happened. Such evidence, however, may be needed for audit and accountability purposes. To achieve these objectives and to preserve privacy, we leverage archival principles to introduce a novel concept of a proof registry, which we define as a set of technical components, data structures, and process flows, that assures that authoritative records offering evidence of transactions is captured, stored, and accessible. This solution solves the compliance and accountability problem while preserving the self-sovereignty and privacy of involved parties.	audit; accountability; archival; proof registry;	adds a third-party to hold history of transactions
231	In a ubiquitous environment enclosing cooperative Internet of Things (IoT) devices, individuals, and entities, Digital Identity Management (DIM) becomes critical and challenging. DIM pertains to device identities authentication and verification to enable trustworthy service exchange, data collection, and decision making. DIM is the supporting pillar for all online services and the foundation for security and authentication mechanisms. Due to the extreme heterogeneity, scale, and configuration complexity of such environments, enabling trustworthy DIM is crucial and seriously challenging. In an IoT context, devices use local (Digital Identities) DIs stored within a tamper-proof unit and verified by a centralized authority for authentication. The recent attacks on IoT systems showed how vulnerable such a design is. It is also an inherent problem that influences humans. From that, Self-Sovereign Identity (SSI) has emerged as a decentralized DIM approach embracing the concept of portable selfpossession identity. SSI was presented to decouple the DI from the owner to enable large-scale cooperation. However, DI storage and verification still occur on the device and in a centralized manner. Utilizing a local single-point-of-failure storage memory for verifying credentials is one of the considerable drawbacks in contemporary SSI. In this regard, this paper introduces DTSSIM, a novel Decentralized Trustworthy Self-Sovereign Identity Management framework. DT-SSIM integrates the secret share scheme with the Blockchain-based smart contracts technologies to provide transparent and trustworthy SSI-based digital identity management services for IoT. Storing IoT identity credentials outside the devices' local storage preserves the identity credentials from being tampered with or misused. Evaluations and discussions show the resiliency assessment of the system and the cost and estimated running times for verification processes in DTSSIM.	IOT; credential storage; distributed credential; smart contracts verifiable presentation; multi-party computation; MPC	stores credentials elsewhere and use a SSS scheme with smartcontracts to manage VCs and VPs
233	Identity management is a principle component of securing online services. In the advancement of traditional identity management patterns, the identity provider remained a Trusted Third Party (TTP). The service provider and the user need to trust a particular identity provider for correct attributes amongst other demands. This paradigm changed with the invention of blockchain-based Self-Sovereign Identity (SSI) solutions that primarily focus on the users. SSI reduces the functional scope of the identity provider to an attribute provider while enabling attribute aggregation. Besides that, the development of new protocols, disregarding established protocols and a significantly fragmented landscape of SSI solutions pose considerable challenges for an adoption by service providers. We propose an Attribute Trust-enhancing Identity Broker (ATIB) to leverage the potential of SSI for trust-enhancing attribute aggregation. Furthermore, ATIB abstracts from a dedicated SSI solution and offers standard protocols. Therefore, it facilitates the adoption by service providers. Despite the brokered integration approach, we show that ATIB provides a high security posture. Additionally, ATIB does not compromise the ten foundational SSI principles for the users.	protocol integration; trust evaluation;	introduces an architecture to manage protocol integration (among various SSI offerings) and traditional ID protocols (SAML, OIDC) while evaluating trust/reputation models
251	With increasing digitization, more and more people use their identification credentials for accessing online services; which increases concern for data privacy. To ensure user's privacy, alternate credential management schemes must be adopted. Self-Sovereign Identity (SSI) is a form of credential management where users are in charge of their credentials. Privacy-critical data is stored at the user's end and they can choose to do selective disclosure of minimal required information to access services. Currently, SSI solutions are not being widely adopted by service providers and the ecosystem is fragmented. One of the reasons for the lack of adoption is the need for maintaining private infrastructure for credential issuance, as critical user information is to be handled during credential issuance. To cater to this, we present a solution that enables the service providers to run their credential issuers on public cloud - a so-called Credentials as a Service (CaaS). CaaS issuers run inside Trusted Execution Environments (TEE) enabling credential issuers to ensure user's privacy while enjoying the flexibility of the pay-per-use cloud model. CaaS can pave the way for making SSI credentials ubiquitous in identity management solutions.	remote credential issue; credential as a service; CaaS; trusted execution environment; TEE	Issue credentials remotly through trusted execution environment
254	Self-sovereign identity provides a feasible alternative to login via username and password through an identity provider to access digital services. It allows identity subjects to control and own their data. Although this is an appealing approach, it requires a whole new infrastructure with almost no dependencies on the existing ones. We designed and implemented a solution that combines an existing federated identity access management solution with the new approach by enabling authentication via self-sovereign-identity-based credentials while the identity provider retains verification and communication with the service provider via Security Assertion Mark Up Language. Thanks to the standardized federated systems in the German higher education domain, the solution not only enables a smooth transition to self-sovereign identities but can also be easily transferred to other universities using the same federated identity framework.	protocol integration; SAML	SSI to SAML integration
263	Self-sovereign identity provides a feasible alternative to login via username and password through an identity provider to access digital services. It allows identity subjects to control and own their data. Although this is an appealing approach, it requires a whole new infrastructure with almost no dependencies on the existing ones. We designed and implemented a solution that combines an existing federated identity access management solution with the new approach by enabling authentication via self-sovereign-identity-based credentials while the identity provider retains verification and communication with the service provider via Security Assertion Mark Up Language. Thanks to the standardized federated systems in the German higher education domain, the solution not only enables a smooth transition to self-sovereign identities but can also be easily transferred to other universities using the same federated identity framework.	risk analysis; attack tree	a risk analysis of SSI using the attack tree method
267	Self-Sovereign Identity (SSI) is a digital identity that is managed in a decentralized manner utilising an underlying blockchain. It allows identity owners to manage and store their digital identities without relying on centralised third-party providers. Providing full control of an identity to its owner seeks to enhance the security and privacy of the individual. The utilisation of the decentralised trust model provided by an underlying blockchain realises this user-centred control. However, this operational change towards greater control and responsibility placed upon identity owners poses new challenges and security threats to the SSI system. Heretofore, there have been no significant research studies performed to assess potential attacks on the SSI system. The SSI model is an emerging Identity Management model, and requires a meticulous study of its potential attack surfaces. Therefore, this paper proposes an attack tree based risk analysis method for investigating potential attacks on the SSI system and their associated risks in facilitating their mitigations. This proposed attack tree based risk analysis method presents a systematic and generalised model to generate attack trees that can be used to perform risk analysis. In this investigation, three potential attacks on the SSI system are focused: faking identity, identity theft and distributed denial of service attacks. For each attack, the attack tree based risk analysis is performed; and subsequently, their mitigations are proposed.	VC metadata; metadata; metadata match; metadata search; natural language; NLP	Use natural language processing to search VC metadata
285	Self-Sovereign Identity (SSI) is a privacy-preserving identity paradigm where users own and manage their digital identities. SSI is also referred to as blockchain identity, as it is commonly implemented using distributed ledger technologies. In this work, we describe the problem of schema matching on blockchain-based SSI implementations, systematically review the literature for tools that attack this problem, introduce a novel solution, and empirically compare it with the works reported from our literature review. Our solution uses pre-trained word vectors to find semantic similarities between user queries and schemas on the blockchain. Experimental evaluation shows that it outperforms existing solutions regarding queries that approach natural language.	VC; VC revocation; VC issued by two parties; double revocation;	VC issued by two parties and revoked by two parties
287	Technical interoperability of the issuance, presentation, and verification of verifiable credentials (VC) across domains of trust is a current challenge for self-sovereign identity. We present an approach incorporating different levels of assurance and trust domains in an eIDAS compliant way. This is illustrated through a use case with real-world relevance: the issuance and cross-border usage of the European Health Insurance Card. © 2021 Gesellschaft fur Informatik (GI). All rights reserved.	protocol integration; eIDAS compliance; legal binding; electronic seal; electronic certificate; qualified certificate; trust evaluation	incorporate qualified electronic certificate to VC for LoA, also evaluates trust policies
290	Assurance in digital authentication means represents a fundamental requirement in the authentication process of digital identities. Different level-of-assurance (LoA) describe the trustworthiness of the authentication specified by various standards. Some traditional governmental identity systems achieve a high LoA. Nevertheless, the recent self-sovereign identity (SSI) model, which utilizes identity wallets to ensure that the identity data control remains with the related user, still lacks a high LoA, detaining the full potential of SSI such as using it for sensitive use-cases like for eGovernment or public administration services. This work tackles this problem by starting with assessing related LoA standards. Based on this assessment are requirements defined to achieve an LoA high. These requirements are utilized in the process of defining and evaluating our proposed concept. Our generic serves as the foundation for other developers, aiming to elevate the LoA in their SSI systems. (More)	cryptographic accumulator; LoA; wallet; FIDO2; FIDO; biometric; certificate; IdP; identity derivation	Uses existing digital identity with high LoA to create VCs with high LoA, which are stored in digital wallet in a way that a FIDO2 hardware token with biometrics is needed to finish the registration process and is used for VP
296	This paper focuses on a specific type of distributed ledger designed to support this technical architecture, Hyperledger Indy. The data contained within this ledger are analysed from the perspective of a verifier attempting to assess the risk associated with accepting a credential presentation they have received.	trust; hyperledger indy;	Proposes ways to evaluate trust of received credentials in Hyperledger Indy

301	We present a low-overhead mechanism for self-sovereign identification and communication of IoT agents in constrained networks. Our main contribution is to enable native use of Decentralized Identifiers (DIDs) and DID-based secure communication on constrained networks, whereas previous works either did not consider the issue or relied on proxy-based architectures. We propose a new extension to DIDs along with a more concise serialization method for DID metadata. Moreover, in order to reduce the security overhead over transmitted messages, we adopted a binary message envelope. We implemented these proposals within the context of Swarm Computing, an approach for decentralized IoT. Results showed that our proposal reduces the size of identity metadata in almost four times and security overhead up to five times. We observed that both techniques are required to enable operation on constrained networks.	DID; DID metadata; DIDComm; DID method; DID document; optimization; IoT; CBOR	Extend DIDComm to DIoTComm, using CBOR to reduce protocol overhead five times compared to DIDComm
307	Self Sovereign Identity (SSI) facilitates self-control on digitized credentials without depending on a centralised authority for trust management among interacting entities. However, in current SSI solutions, credential issuers are still assumed to be from "official" sources (e.g., government agencies) and there is no systematic support for personal issuers in terms of managing trust of the issuers. This engenders lack of trust between personal issuers and verifiers. We propose a blockchain-based, decentralised credential and identity management system that allows issuer authentication through the establishment of a verifiable credential based 'Web of Trust' of personal issuers. Our work aims to establish an effective governance framework for personal issuers by introducing multi-layered issuer authorities and credential-based trust management for authenticated issuer on-boarding.	VC; VC issuer; issuer; issuer authorization;	Add policies to VC, allowing others to issue VCs under that policy
308	In Self-Sovereign Identity (SSI) there are three entities involved, namely issuer (issues the credentials), holder (for whom the credentials are issued), and verifier (the one who needs to view the credentials to provide a service or commodity in exchange). The problem here is that the verifier might request more than the required credentials from the holder. The holder is put into a difficult situation where the holder must give all the requested credentials in order to avail of the service offered by the verifier. To stop this from happening policies must be put into place and these policies must be cryptographically enforced. Various potential solutions are suggested and from those solutions, Ciphertext Policy Attribute-Based Encryption (CPABE) is used to address this problem. Implementation is provided in the form of a demo and the performance of the implemented solution is measured.	Ciphertext Policy Attribute-Based Encryption (CPABE); Issuer Policy; VP Authorization;	Uses CP-ABE to enable issuers to specify a policy that RPs must respect to receive data from holders.
315	This research has been performed in pursuit of the MSc Computer Science at Delft University of Technology in collaboration with the Dutch National Office for Identity Data (RvIG), part of the Dutch Ministry of the Interior and Kingdom Relations. Self-Sovereign Identity (SSI) is a relatively new concept part of a movement aspiring to create a universal identity layer for the Internet. SSI aims to put the citizen at the centre of their data, making them the sovereign over their digital presence. Wherein the current ecosystem personal information is stored in centralised or federated settings, SSI delegates this responsibility entirely to the user. Functioning SSI schemes have been proposed and deployed, even with governmental support. However, we identify that the key issue that remains to be solved is revocation: the invalidation of credentials. Proposed revocation mechanisms typically rely on centralised infrastructure for revocations, defying the principles of SSI itself and, furthermore, lack offline verification capabilities. This research addresses these issues and proposes the first fully distributed revocation mechanism in SSI, using a gossip-based propagation algorithm. Our revocation mechanism requires no centralised infrastructure or strict network requirements and enables offline verification of credentials in case of disaster. Propagation is handled by honest clients, requires no direct communication with authorities and is shown to be robust in case of unreliable communication links. Furthermore, revocation acceptance is at the discretion of individual clients, making our mechanism fully adhere to the principles of Self-Sovereignty. This revocation and verification structure is part of our Industry-Grade Self-Sovereign Identity (IG-SSI) architecture. IG-SSI is a purely academic fully distributed SSI scheme with intrinsic equality across the network. Furthermore, communication is facilitated peer-to-peer, requiring no specialised infrastructure. The architecture allows for the signing, verification and presentation of credentials using Zero-Knowledge Proofs. We believe that the characteristics of our system provide it with use for decades to come, hence, we deem it to be industry-grade. Our simulation portrays that a network comprised of 10,000 clients gossips 1 million revocations within 25 seconds. Feasibility on smartphones is shown through a government-backed real-life trial. Based on our results, we claim that IG-SSI is a viable candidate for facilitating the needs for a digital identity of the European Union.	distributed revocation	gossip-based protocol to distribute revocation information and allow SSI users to have offline revocation information
323	Self-Sovereign Identities provide a solution to the identity crisis as their goal is bringing back control over identities to their owners. Nonetheless, currently deployed SSI managers lack data resilience. Consequently, one's identity is lost if the device holding it becomes inaccessible. We achieve data resilience through identity backups. Unfortunately, there is no research on the matter. Thus, we discover that traditional backup systems need eight additional requirements to become suitable for identity backups. Then we describe two existing solutions and introduce a novel one designed by us. A comparison between them follows, from which we conclude that our novel solution satisfies the most requirements. We then extend an existing SSI manager with a proof-of-concept implementation of our solution. Our implementation consists of three main components. The first one takes care of identity recovery. The second one allows verifiers to check whether identities and their backups are consistent before verifying their attested claims. And the last mechanism takes care of access revocation.	wallet backup; identity backup; backup;	backup on another device of the identity owner
324	Self-Sovereign Identity (SSI) is a novel and emerging, decentralized identity approach that enables entities to fully control and manage their digital identifiers and associated identity data while enhances trust, privacy, security, and many other properties analyzed in this paper. The paper provides an overview of the SSI properties, focusing on an in-depth analysis, furthermore presenting a comprehensive collection of SSI properties that are important for the implementation of the SSI system. In addition, it explores the SSI process flow and highlights the steps in which individual properties are important. After the initial purification and classification phase, we then validated properties among experts in the field of decentralized and self-sovereign identity management using an online questionnaire, which resulted in a final set of classified and verified SSI properties. The results can be used for further work on the definition and standardization of the SSI field.	SSI properties; theoretical discussion	adds decentralization, legacy compatibility, identity assurance, secure transactions, recoverability, usability and accessibility
WO-2021125586-A1	A content wallet device is disclosed. A content wallet device, to which a storage device having content stored therein connects, comprises: a communication unit for communication between the content wallet device and a user terminal device; an encryption unit for generating encryption data comprising a passcode and a user ID for an authentication between the content wallet device and user terminal device; a switch unit for controlling the electrical connection between the storage device and communication unit; and a reset unit for resetting the generated passcode if the electrical connection between the storage device and communication unit is released by the switch unit. Therefore, when a user is selling content, the user can directly trade the content with a purchaser without transferring the authorization to a central management system, and a new passcode is generated every time the user authenticates a content ownership, and thus hacking by a third party is prevented, thereby blocking an unauthorized leak of the content.	wallet; hardware-based wallet; HSM;	a hardware-based wallet for mobile devices
WO2021064182A1	A computer-implemented transaction system supports transactions between a user computing device and a provider computing device. The user computing device transmits a transaction service identifier to the provider computing device, and the provider computing device transmits the transaction service identifier to a provider transaction server. The provider transaction server communicates network with a user transaction server identified by the transaction service identifier, and requests that the transaction is performed between the user transaction server and provider transaction server. In response to the transaction request, the user transaction server communicates with the user computing device and authenticates usage of the respective user computing device. The user transaction server performs the transaction if usage of the user computing device is authenticated.	HCI; authentication; authentication through "usage data";	Proposes "implicit authentication" throught device usage patterns (messages, sensors, applications, location history)
30.80	Credentials are a part of our daily lives; driver's licenses are used to assert that we are capable of operating a motor vehicle, university degrees can be used to assert our level of education, and government-issued passports enable us to travel between countries. This specification provides a mechanism to express these sorts of credentials on the Web in a way that is cryptographically secure, privacy respecting, and machine-verifiable.	credentials; verifiable credentials; VC;	the verifiable credentials standard
37.29	Decentralized identifiers (DIDs) are a new type of identifier that enables verifiable, decentralized digital identity. A DID refers to any subject (e.g., a person, organization, thing, data model, abstract entity, etc.) as determined by the controller of the DID. In contrast to typical, federated identifiers, DIDs have been designed so that they may be decoupled from centralized registries, identity providers, and certificate authorities. Specifically, while other parties might be used to help enable the discovery of information related to a DID, the design enables the controller of a DID to prove control over it without requiring permission from any other party. DIDs are URIs that associate a DID subject with a DID document allowing trustable interactions associated with that subject. Each DID document can express cryptographic material, verification methods, or services, which provide a set of mechanisms enabling a DID controller to prove control of the DID. Services enable trusted interactions associated with the DID subject. A DID might provide the means to return the DID subject itself, if the DID subject is an information resource such as a data model. This document specifies the DID syntax, a common data model, core properties, serialized representations, DID operations, and an explanation of the process of resolving DIDs to the resources that they represent.	decentralized identifiers; DID; identifier; authentication;	the decentralized identifier standard
38.7	-	theoretical; requirements	proposes requirements for SSI systems
60.19	The desire for increased control over our identity has catapulted the idea of "self-sovereign identity" into the forefront of digital identity innovation, yet the term lacks a rigorous definition beyond specific technical implementations1 . This paper explores what self-sovereign identity means independent of technology: what people need from independent identity capabilities. I want to understand how such a system enables both individuals whose identities are in play (subjects), as well as those who use those "identities" to correlate interactions across contexts (observers). I start with grounding individual sovereignty in the Enlightenment and identity in its core function of correlation, then propose core characteristics of a self-sovereign identity system. My eventual goal is to model the technology- independent requirements of a self-sovereign solution suitable for realizing UN Sustainable Development Goal 16.9: "Providing every last person on the planet with a legal identity by 2030."	theoretical; requirements; characteristics	defines three fundamental characteristics of self-sovereign identity that are broken down into smaller chunks
113.16	-	theoretical; refute; comment; discuss	refute most SSI principles, pointing flaws and proposing alternatives
158.23	This RFC describes the protocol to exchange DIDs between agents when establishing a DID based relationship.	DID communication;	exchange of DID info
175.21	An identity system based secure overlay for the Internet is presented. This includes a primary root-of-trust in self-certifying identifiers. It presents a formalism for Autonomic Identifiers (AIDs) and Autonomic Namespaces (ANs). They are part of an Autonomic Identity System (AIS). This system uses the design principle of minimally sufficient means to provide a candidate trust spanning layer for the internet. Associated with this system is a decentralized key management infrastructure (DKMI). The primary root-of-trust are self-certifying identifiers that are strongly bound at issuance to a cryptographic signing (public, private) key-pair. These are self-contained until/unless control needs to be transferred to a new key-pair. In that event an append only chained key-event log of signed transfer statements provides end verifiable control provenance. This makes intervening operational infrastructure replaceable because the event logs may be therefore be served up by ambient infrastructure. End verifiable logs on ambient infrastructure enables ambient verifiability (verifiable by anyone, anywhere, at anytime). The primary key management operation is key rotation (transference) via a novel key pre-rotation scheme. Two primary trust modalities motivated the design, these are a direct (one-to-one) mode and an indirect (one-to-any) mode. In the direct mode, the identity controller establishes control via verified signatures of the controlling key-pair. The indirect mode extends that trust basis with witnessed key event receipt logs (KERLs) for validating events. The security and accountability guarantees of indirect mode are provided by KERIs Agreement Algorithm for Control Establishment (KACE) among a set of witnesses.	identifier; key-rotation;	identifiers based on public-key cryptography with key pre-rotation
287.2	-	DID communication;	low level communication protocol for DIDs
301.9	Decentralised identifiers (DIDs) and verifiable credentials (VCs) are upcoming standards for self-sovereign privacypreserving identifiers and authorisation, respectively. This focus on privacy can help improve many services and open up new business models, but using DIDs and VCs directly on constrained IoT devices can be problematic due to the management and resource overhead. This paper presents an OAuth-based method to delegate the processing and access policy management to the Authorisation Server thus allowing also systems with constrained IoT devices to benefit from DIDs and VCs.	OAuth 2.0 bridge; IoT	an OAuth 2.0 intermediary that accepts VPs and issues access tokens, which are then sent to IoT devices
324.10	-	add new principles	add new principles
35.1018	The traditional centralized digital identity management system (DIMS) has been subject to threats such as fragmented identity, single point of failure, internal attacks and privacy leakage. Emerging blockchain technology allows DIMSs to be deployed in it, which largely alleviates the problems caused by the centralized third party, but its inherent transparency and lack of privacy pose a huge challenge to DIMSs. In this regard, we leverage the smart contracts and zero-knowledge proof (ZKP) algorithms to improve the existing claim identity model in blockchain to realize the identity unlinkability, effectively avoiding the exposure of the ownership of attributes. Furthermore, we implement a system prototype named BZDIMS that includes a challenge-response protocol, which allows users to selectively disclose their ownership of attributes to service providers to protect users' behavior privacy. Performance evaluation and security analysis show that our scheme achieves effective attribute privacy protection and a wider application scope compared with the prior model.	zkp; zk-snark; smart contract; blockchain; VP; selective disclosure	use zk-snark and smart contracts to create a selective disclosure VP
35.1061	Recently, a self-sovereign identity model has been researched actively as an alternative to the existing identity models such as a centralized identity model, federated identity model, and user-centric model. The self-sovereign identity model allows a user to have complete control of his identity. Meanwhile, the core component of the self-sovereign identity model is data minimization. The data minimization signifies that the extent of the exposure of user private identity should be minimized. As a solution to data minimization, zero-knowledge proofs can be grafted to the self-sovereign identity model. Specifically, zero-knowledge Succinct Non-interactive ARgument of Knowledge(zk-SNARKs) enables proving the truth of the statement on an arbitrary relation. In this paper, we propose a privacy-preserving self-sovereign identity model based on zk-SNARKs to allow any type of data minimization beyond the selective disclosure and range proof. The security of proposed model is formally proven under the security of the zero-knowledge proof and the unforgeability of the signature in the random oracle model. Furthermore, we optimize the proving time by checking the correctness of the commitment outside of the proof relation for practical use. The resulting scheme improves proving time for hash computation (to verify a commitment input) from 0.5 s to about 0.1 ms on a 32-bit input.	zkp; sk-snark; VP; expressiveness; any language in NP;	allow VP with zk-snark to prove any language in NP
38.1026	Digital identity is essential to almost all information systems. This paper provides a new perspective for reducing digital identity management systems (DIMS) to two mappings, the core operations on the mappings, and the trust model built around the mappings. Using this two-mapping view, we derive criteria for determining whether a DIMS solution is self-sovereign. We also compare decentralized identity management solutions with the traditional centralized identity management solutions. From the comparison and analysis, we have the following findings. The differences between decentralized and centralized solutions stem from the trust model differences which dictate storage scheme differences, and therefore other operation-level differences. With a more trustless trust model and storage scheme, current decentralized solutions can be promising candidates for self-sovereign DIMS. Design considerations and certain limitations of the current decentralized solutions are analyzed based on the two-mapping view as well, which can provide useful directions to further study.	abstract; classification; evaluation	proposes a group of operations (CRUD + verification) despite identity and attributes (claims) and argues that a SSI system must support all of them
38.1113	This paper presents a design for a blockchain solution aimed at the prevention of unauthorized secondary use of data. This solution brings together advances from the fields of identity management, confidential computing, and advanced data usage control. In the area of identity management, the solution is aligned with emerging decentralized identity standards: decentralized identifiers (DIDs), DID communication and verifiable credentials (VCs). In respect to confidential computing, the Cheon-Kim-Kim-Song (CKKS) fully homomorphic encryption (FHE) scheme is incorporated with the system to protect the privacy of the individual's data and prevent unauthorized secondary use when being shared with potential users. In the area of advanced data usage control, the solution leverages the PRIV-DRM solution architecture to derive a novel approach to licensing of data usage to prevent unauthorized secondary usage of data held by individuals. Specifically, our design covers necessary roles in the data-sharing ecosystem: the issuer of personal data, the individual holder of the personal data (i.e., the data subject), a trusted data storage manager, a trusted license distributor, and the data consumer. The proof-of-concept implementation utilizes the decentralized identity framework being developed by the Hyperledger Indy/Aries project. A genomic data licensing use case is evaluated, which shows the feasibility and scalability of the solution.	homomorphic encryption; prevent secondary usage of private data	adds new roles to sell access to private data and uses homomorphic encryption to supposedly prevent data reuse
38.1122	When multiple entities communicate or collaborate in JointCloud, identities are the very prior basis to build trust with each other. Decentralized identifier (DID) can provide a trusted identity with blockchain technology and a complete method of identity verification based on verifiable credentials, which solves problems of conventional centralized identity. However, current DIDs can only conduct verification within a single blockchain, which limits the interoperability of DIDs on different blockchains. Network isolation hinders the verification of DIDs on different blockchains and thus there is a need to break the barrier between blockchains. In this paper, we propose a model to conduct cross-chain verification of DIDs. We build a system of credit evaluation to describe the credibility of DIDs in a unified way and deploy smart contracts to implement cross-chain verification of DIDs. Experimental results verifies the feasibility of the model, which realizes cross-chain verification of DIDs in the networks of blockchain.	credibility; reputation; interoperability; cross-chain DID;	a credibility evaluation using cross chain smart contract and the credibility of verifiers
45.1004	In this paper we present ZKlaims: a system that allows users to present attribute-based credentials in a privacy-preserving way. We achieve a zero-knowledge property on the basis of Succinct Non-interactive Arguments of Knowledge (SNARKs). ZKlaims allow users to prove statements on credentials issued by trusted third parties, such that the contents are never revealed in the presentation process. Further, ZKlaims can be presented non-interactively, mitigating the need for interactive proofs between the user and the verifier. This allows ZKlaims to be exchanged via fully decentralized services and storages such as traditional peer-to-peer networks based on distributed hash tables (DHTs) or even blockchains. To show this, we include a performance evaluation of ZKlaims and show how it can be integrated in decentralized identity provider services.	practical; claims; attributes; verification; proof; zero-knowledge proof;	a zero-knowledge proof system for presenting attributes (claims)
45.1016	Today, identity management is a key element for commercial and private services on the Internet. Over the past decade, digital identities evolved away from decentralized, pseudonymous, user-controlled personas towards centralized, unabiguous identities managed at and provided through service providers. This development was sparked by the requirement of real identities in the context of electronic commerce. However, it was particularly fuelled later by the emergence of social media and the possibilities it provides to people in order to establish social connections. The following centralization of identities at a handful of service providers significantly improved usability and reliability of identity services. Those benefits come at the expense of other, arguably equally important areas. For users, it is privacy and the permanent threat of being tracked and analyzed. For service providers, it is liability and the risk of facing significant punishment caused by strict privacy regulations which try to counteract the former. In this thesis, we investigate state-of-the-art approaches to modern identity management. We take a look at existing standards and recent research in order to understand the status quo and how it can be improved. As a result from our research, we present the following contributions: In order to allow users to reclaim control over their identities and personal data, we propose a design for a decentralized, self-sovereign directory service. This service allows users to share personal data with services without the need of a trusted third party. Unlike existing research in this area, we propose mechanisms which allow users to efficiently enforce access control on their data. Further, we investigate how trust can be established in user-managed, self-sovereign identities. We propose a trust establishment mechanism through the use of secure name systems. It allows users and organizations to establish trust relationships and identity assertions without the need of centralized public key infrastructures (PKIs). Additionally, we show how recent advancements in the area of non-interactive zero-knowledge (NIZK) protocols can be leveraged in order to create privacy-preserving attribute-based credentials (PP-ABCs) suitable for use in self-sovereign identity systems including our proposed directory service. We provide proof of concept implementations of our designs and evaluate them to show that they are suitable for practical applications.	attribute delegation; name system; DNS	uses decentralized name system to control the delegation of authorization to issue credentials (or part of credentials)
45.1018	In many application domains, there is a need to ensure that users satisfy some requirements to use a service: for example, there is a minimum age to buy alcoholic beverages or to watch some videos on YouTube. In these situations, organizations typically collect more personal information than necessary to provide a better service. The consequence is a personal data leakage that violates the data minimization principle stated by the General Data Protection Regulation 2016/679. This article proposes a new approach for allowing individuals to maintain control over the disclosure of their data, deciding which information to disclose and for how long. Our approach is based on the use of social networks, and implementation on Facebook is presented to show that the proposed solution is effective, cheap, friendly, and simple to adopt.	usability; social networks as infrastructure; identity; credentials; blockchainless	SSI on top of social networks
58.1003	Most authentication schemes are centralized or managed by large federated giants. Often data stored in such third parties is highly susceptible to hacks, leaks, crossmatching, selling, and various privacy-invading attacks. Biometric credentials are extremely sensitive as unlike other credentials they cannot be renewed if compromised. This work proposes a blockchain based framework that allows secure, transparent, and privacy-preserving biometric authentication. Instead of storing biometric data in a centralized database they are decentralized and managed using DID and DID documents. It allows a user to posses self-sovereign and irrevocable pseudobiometric identities that enables complete control over its biometric identity information, completely anonymous transactions, and the right to be forgotten. The pseudo-biometric acts extra protecting by imparting one-way transforms to original biometric and making is absolutely safe to onboard. The scheme is analyzed for performance under various operating scenarios.	cancelable biometric; selfie; authentication; identity;	derive a credential from a selfie
65.1007	Today's web is comprised of a patchwork of identity solutions because neither identity nor privacy were designed-in when it was created. This paper proposes an integrative identity architecture that satisfies the principles of privacy by design from inception. Comprised of identity agents and digital identities that are tightly held by their owners, the architecture decentralizes control over identity from providers to users. Owners can manage their digital identities and private data such that liability risks are reduced for service providers without compromising ease-of-use. Identity agents and digital identities enable owners to prove who they are when required, protect their private and identifying data, and securely collaborate. Digital identities are virtualized to look and behave like credentials found in one's wallet thereby facilitating technology adoption and reducing dependency on remote access passwords. A gestalt privacy by design process has been used to discover and validate the architecture's privacy requirements and design elements, systematically reasoning about how the design satisfies the requirements. The process can be applied to organically improve the architecture and create a reference model for open source development. This paper also relates the architecture to W3C's models for verifiable credentials and decentralized identifiers, summarizes the architecture's features, capabilities and benefits, and suggests areas for further study.	application; identity; user; agent; app; mobile; representation	a software agent that controls the user's identities and keys and can interact with other entities on behalf of the user
65.1027	Owing to the introduction of blockchain technology, a decentralized identity model has been proposed to replace conventional identity models based on centralized authorities. The blockchain platform operated by various participants provides a new root-of-trust functionality for entity identification and access control. Each entity generates and registers its own identifier and credential (public key) to the blockchain such that any entity can obtain the other entity's public key. When the corresponding private key is compromised, the key rotation to generate and register a new key pair should be performed. However, the current approach for cryptographically binding a decentralized identifier with a public key induces a serious security problem that results in both identity-stealing attacks and multiple identifiers for a single entity. A new decentralized identity to address the security problem above is proposed herein, which is based on a newly proposed cryptographic primitive (infinite one-way hash chain), as well as its security analysis and performance evaluation on Hyperledger Fabric and Contiki Cooja simulator. To demonstrate the applicability of the proposed decentralized identity to various security protocols, an authenticated key exchange protocol is also designed.	key rotation; lamport; hash chain;	Adds public-key crypto to lamport's hash chain to perform key-rotation

104.1004	Attribute-based credential systems enable users to authenticate in a privacy-preserving manner. However, in such schemes verifying a user's credential requires knowledge of the issuer's public key, which by itself might already reveal private information about the user. In this paper, we tackle this problem by introducing the notion of issuer-hiding attribute-based credential systems. In such a system, the verifier can define a set of acceptable issuers in an ad-hoc manner, and the user can then prove that her credential was issued by one of the accepted issuers – without revealing which one. We then provide a generic construction, as well as a concrete instantiation based on Groth's structure preserving signature scheme (ASIACRYPT'15) and simulation-sound extractable NIZK, for which we also provide concrete benchmarks in order to prove its practicability. The online complexity of all constructions is independent of the number of acceptable verifiers, which makes it also suitable for highly federated scenarios.	hide issuer; VP without revealing issuer; issuer hidding	creates a ZKP VP without revealing the issuer public key
37.29.1036	Secrets such as passwords, encryption keys, and certificates are used to assist in protecting access to resources such as computing devices, customer data and other information. Unauthorised access to resources can cause significant disruption and/or disastrous consequences. Given the importance of protecting these secrets to the security and privacy of many software systems, many solutions have been proposed. These solutions take two main directions: either securely store the secret and implement an access control mechanism, or divide the secret into a set of shares and distribute them in different machines (such as the Shamir's secret sharing approach or multi-party computation MPC). However, apart from the MPC approach, they all share the same limitation: once the consumer receives the secret, it can be leaked and be used by any malicious actor. We believe that the secret management should not be centralised and that the secret should never be sent to the receiver. Therefore, in this paper we propose, Secretation, a new approach for managing the secrets in a decentralised way by leveraging decentralised identity concepts such as verifiable credential technologies, password-authenticated key exchange protocols and multi-party computation. The result is a more scalable and secure solution that significantly reduces the risk of leaking the secrets.	agent; credential access;	Holders do not hold credentials/data. Instead, holders' data are stored somewhere else and secured with a two-party protocol between holder and storage service. Holders do not access their data directly. Instead, RP's agents make requests and the holder's agent asks the user for authorization.