Список публикаций в международных рецензируемых изданиях

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№ п/п	Атауы	Мақаланың түрі (мақала, шолу)	Журналдың атауы, басылым жылы, DOI	Журналдың Импакт-факторы, квартиль және саласы Journal Citation Reports (Жорнал Цитэйшэн Репортс) бойынша	Web of Science Core Collection (Веб оф Сайенс Кор Коллекшн) бойынша индексі	Журналдың CiteScore (СайтСкор), процентиль и салпсы* Scopus (Скопус) бойынша	Авторлар аты-жөні (тапсырушы аты сызылған)	Тапсырушы рөлі (соавтор, бірінші автор немесе корреспонденция авторы)
1.	Ultrasensitive nitric oxide gas sensors based on Ti-doped ZnO nanofilms prepared by RF magnetron sputtering system	мақала	Journal of Alloys and Compounds, https://doi.org/10.1016/j.jallcom.2023.170125	6.37. Q1. Metallurgy &Metallurgical Engineering	1	8.9 Engineering - Mechanical Engineering, 95%	B. Soltabayev, A. Ajjaq, G. Yergaliuly, Y. Kadyrov, A. Turlybekuly, S. Acar, A, Mentbayeva	корреспонденция авторы

2.	Solid-state synthesis of ZnS/ZnO nanocomposites and their decoration with NiS cocatalyst for photocatalytic hydrogen production	мақала	Ceramics International, https://doi.org/10.1016/j.ceramint.2023.07.200	5.2. Q1. Ceramics and Composites	0	8.8 Ceramics and Composites, 85%	A. Oskenbay, D. Salikhov, O. Rofman, I. Rakhimbek, Z. Shalabayev, N. Khan, B. Soltabayev, A. Mentbayeva, M. Baláž, B. Tatykayev	корреспонденция авторы
3.	CuO/TiO_2 heterostructure-based sensors for conductometric NO_2 and N_2O gas detection at room temperature	мақала	Sensors and Actuators B: Chemical, https://doi.org/10.1016/j.snb.2023.134635	8.4. Q1. Chemistry, analytical	0	14.6. 94% (Materials Chemistry)	A. Turlybekuly, M. Sarsembina, A. Mentbayeva, Z. Bakenov, B. Soltabayev	соавтор
4.	Advances of graphene-based aerogels and their modifications in lithium-sulfur batteries	шолу	Carbon, https://doi.org/10.1016/j.carbon.2022.09.069	10.9.Q1. Chemistry	10	20.1 96% General Materials Science	F. Sultanov, A. Mentbayeva, S. Kalybekkyzy, A. Zhaisanova, S.-T. Myung, Z. Bakenov	корреспонденция авторы
5.	Exploiting High-Voltage Stability of Dual-Ion Aqueous	мақала	Small, https://doi.org/10.1002/smll.202302973	15.15. Q1. Biomaterials	0	97% Engineering	O. Zhanadilov, H. J. Kim, H‐J. Lai, J‐C. Jiang, A. Konarov, A.	соавтор

	Electrolyte Reinforced by Incorporation of Fiberglass into Zwitterionic Hydrogel Electrolyte					(miscellaneous)	Mentbayeva, Z. Bakenov, K‑S. Sohn, P. Kaghazchi, S‑T. Myung	
6.	One-step fabrication of all-in-one flexible nanofibrous lithium-ion battery	мақала	Journal of Energy Storage, https://doi.org/10.1016/j.est.2023.107237	9.4.Q1. Energy	3	10.3 90% Electrical and Electronic Engineering	K. Akhmetova, B. Tatykayev, S. Kalybekkyzy, F. Sultanov, Z. Bakenov, A. Mentbayeva	корреспонденция авторы
7.	Facile Deposition of the LiFePO4 Cathode by the Electrophoresis Method	мақала	ACS Omega, https://doi.org/10.1021/acsomega.2c07937	4.1. Q1. Chemical Engineering	1	5.9 72% General Chemical Engineering	N. Tolganbek, N. Zhalgas, Y. Kadyrov, N. Umirov, Z. Bakenov, A. Mentbayeva	корреспонденция авторы
8.	Catalytic effects of Ni nanoparticles encapsulated in few-layer N-doped graphene and supported by N-doped graphitic	мақала	RSC Advances, https://doi.org/10.1039/d3ra00891f	4.0. Q1 Chemical Engineering	1	5.9 78% General Chemical Engineering	N. Baikalov, I. Rakhimbek, A. Konarov, Y. Zhang, A. Mentbayeva, Z. Bakenov	соавтор

	carbon in Li–S batteries							
9.	Recent Advances on Modification of Separator for Li/S Batteries	шолу	ACS Applied Energy Materials, https://doi.org/10.1021/acsaem.2c02767	6.9. Q1. Chemical Engineering	6	8.4 89% Materials Chemistry	N. Batyrgali, Y. Yerkinbekova, N. Tolganbek, S. Kalybekkyzy, Z. Bakenov, A. Mentbayeva	корреспонденция авторы
10.	Development of Quaternized Chitosan Integrated with Nanofibrous Polyacrylonitrile Mat as an Anion-Exchange Membrane	мақала	ACS Omega, https://doi.org/10.1021/acsomega.2c05961	4.1. Q2. Chemical Engineering	1	5.9 72% General Chemical Engineering	A. Akhmetova, B. Myrzakhmetov, Y. Wang, Z. Bakenov, A. Mentbayeva	корреспонденция авторы
11.	Photo-crosslinked lignin/PAN electrospun separator for safe lithium-ion batteries	мақала	Scientific Reports, https://doi.org/10.1038/s41598-022-23038-7	4.99. Q1. Multidisciplinary	4	7.1 92% Multidisciplinary	Y. Yerkinbekova, S Kalybekkyzy, N. Tolganbek, M. Kahraman, Z. Bakenov, A. Mentbayeva	корреспонденция авторы

12.	Effect of a layer-by-layer assembled ultra-thin film on the solid electrolyte and Li interface	мақала	Nanoscale Advances, https://doi.org/10.1039/D2NA00521B	5.6. Q2. Atomic and Molecular Physics	1	8.6 92% General Engineering	N. Tolganbek, M. Sarsembina, A. Nurpeissova, K. Kanamura, Z. Bakenov, A. Mentbayeva	корреспонденция авторы
13.	Quick NO Gas Sensing by Ti-Doped Flower-Rod-Like ZnO Structures Synthesized by SILAR Method	мақала	ACS Applied Material Interfaces, https://doi.org/10.1021/acsami.2c10055	10.38. Q1. Materials Science	6	15.7 93% General Materials Science	B. Soltabayev, G. Yergaliuly, A. Ajjad, A. Beldeubayev, S. Acar, Z. Bakenov, A Mentbayeva	корреспонденция авторы
14.	Interface modification of NASICON-typed Li-ion conducting ceramic electrolytes: A critical evaluation	мақала	Materials Advances, https://doi.org/10.1039/D1MA01239H	5.36. Q2.	12	64% Chemistry (miscellaneous)	N. Tolganbek, A. Serikkaziyeva, S. Kalybekkyzy, M. Sarsembina, K. Kanamura, Z. Bakenov, A. Mentbayeva	корреспонденция авторы
15.	Photo and thermal crosslinked poly(vinyl alcohol)-based nanofiber membrane for flexible gel	мақала	Journal of Power Sources 10.1016/j.jpowsour.2021.230896	9.79. Q1.	18	71% Energy Engineering and Power Technology	N. Kassenova, S. Kalybekkyzy, M. V. Kahraman, A. Mentbayeva, Z. Bakenov	корреспонденция авторы

	polymer electrolyte							
16.	Effect of thickness and reaction media on properties of ZnO thin flms by SILAR	мақала	Scientific Reports https://doi.org/10.1038/s41598-022-04782-2	4.99. Q1.	30	7.1 92%	G. Yergaliuly, B. Soltabayev, S. Kalybekkyzy, Z. Bakenov, A Mentbayeva	корреспон денция авторы
17.	Molecular Modeling in Anion Exchange Membrane Research: A Brief Review of Recent Applications	мақала	Molecules 10.3390/molecules27113574	4.6. Q2	6	78% Chemistry (miscellaneous)	M. Karibayev, S. Kalybekkyzy, Y. Wang, A.	корреспон денция авторы
18.	Application of Response Surface Methodology for Optimization of Nanosized Zinc Oxide Synthesis Conditions by Electrospinning Technique	мақала	Nanomaterials 10.3390/nano12101733	5.3. Q1.	3	81% General Chemical Engineering	A. Rakhmanova, S. Kalybekkyzy, B. Soltabayev, A. Bissenbay, N. Kassenova, Z. Bakenov, A. Mentbayeva	корреспон денция авторы
19.	Binding and Degradation Reaction of Hydroxide Ions	мақала	Molecules 10.3390/molecules27092686	4.6. Q2.	8	78% Chemistry (miscellaneous)	M. Karibayev, B. Myrzakhmetov, S. Kalybekkyzy,	корреспон денция авторы

	with Several Quaternary Ammonium Head Groups of Anion Exchange Membranes Investigated by the DFT Method						Y. Wang, A. Mentbayeva	
20.	Enhanced gas sensing properties of in doped ZnO thin films	мақала	Materials Today: Proceedings https://doi.org/10.1016/j.matpr.2020.12.157	Q3.	11	42% General Materials Science	B. Soltabayev, A. Mentbayeva, S. Acar	соавтор
21.	PAM-based hydrogel electrolyte for hybrid rechargeable aqueous (Zn and Li-ion) battery	мақала	Materials Today: Proceedings https://doi.org/10.1016/j.matpr.2020.11.989	Q3.	1	42% General Materials Science	O. Zhanadilov, A. Mentbayeva, Z. Beisbayeva, M. Amze, Z. Bakenov	корреспонденция авторы
22.	Current state of high voltage olivine structured LiMPO4 cathode materials for energy storage applications:	шолу	Journal of Alloys and Compounds https://doi.org/10.1016/j.jallcom.2021.160774	IF = 7.6. Q2.	54	95% Mechanical Engineering	N. Tolganbek, Y. Yerkinbekova, S. Kalybekkyzy, Z. Bakenov, A. Mentbayeva	корреспонденция авторы

23.	Design and preparation of thin film gel polymer electrolyte for 3D Li-ion battery batteries	мақала	Journal of Power Sources https://doi.org/10.1016/j.jpowsour.2021.229686	8.25. Q1.	13	71% Energy Engineering and Power Technology	N. Tolganbek, A. Mentbayeva, N. Serik, N. Batyrgali, M. Naizakarayev, K. Kanamura, Z. Bakenov	корреспонденция авторы
24.	Enhancing purity and ionic conductivity of NASICON-typed Li1.3Al0.3Ti1.7(PO4)3 solid electrolyte	мақала	Ceramics International https://doi.org/10.1016/j.ceramint.2021.03.137	5.53. Q1.	19	86% Materials Chemistry	N. Tolganbek, Y. Yerkinbekova, A. Khairulin, Z. Bakenov, A. MentbayevaK. Kanamura	корреспонденция авторы
25.	Ultrathin clay-containing layer-by-layer separator coating enhances performance of lithium-sulfur batteries	мақала	Electrochimica Acta https://doi.org/10.1016/j.electacta.2020.137454	7.34. Q1.	26	12.3 Chemical Engineering	Mentbayeva, S. Sukhishvili, M. Naizakarayev, N. Batyrgali, Z. Seitzhan, Z. Bakenov	корреспонденция авторы
26.	Advanced Battery Materials Research at Nazarbayev University: Review	мақала	Eurasian chem-tech. Journal 10.18321/ectj1103	Q4.	0		I Kurmanbayeva, A Mentbayeva, A Nurpeissova, Z Bakenov	соавтор

27.	Fabrication of UV-Crosslinked Flexible Solid Polymer Electrolyte with PDMS for Li-Ion Batteries	мақала	Polymers https://doi.org/10.3390/polym13010015	4.33. Q2.	21	82% Organic Chemistry	S. Kalybekkyzy, A. Kopzhassar, M.V. Kahraman, A. Mentbayeva, Z. Bakenov	корреспонденция авторы
28.	Investigation of indium insertion effects on morphological, optical, electrical impedance and modulus properties of ZnO thin films	мақала	Thin Solid Films https://doi.org/10.1016/j.tsf.2021.138846	2.18. Q2.	6	76% Metals and Alloys	B Soltabayev, AO Çağırtekin, A Mentbayeva, MA Yıldırım, S Acar,	соавтор
29.	Evaluating sulfur-composite cathode material with lithiated graphite anode in coin cell and pouch cell configuration	мақала	Frontiers in Energy https://doi.org/10.3389/fenrg.2020.595481	4.0. Q3	1	70% Energy Engineering and Power Technology	B. Uzakbaiuly, A. Mentbayeva, A. Konarov, I. Kurmanbayeva, Y. Zhang, Z. Bakenov	соавтор
30.	High Mass-Loading Sulfur-Composite Cathode for Lithium-Sulfur Batteries	мақала	Frontiers in Energy DOI: 10.3389/fenrg.2020.00207	4.0. Q3	5	70% Energy Engineering and Power	N. Baikalov, N. Serik, S. Kalybekkyzy, I. Kurmanbayeva, Z. Bakenov, A. Mentbayeva	корреспонденция авторы

						Technology		
31.	etrapropylammonium Hydroxide as a Zinc Dendrite Growth Suppressor for Rechargeable Aqueous Battery	мақала		4.0. Q3			I Kurmanbayeva, L. Rakhymbay, K. Korzhynbayeva, A. Adi, D. Batyrbekuly, A Mentbayeva, Z Bakenov	
32.	Electrospun 3D Structured Carbon Current Collector for Li/S Batteries	мақала	Nanomaterials 10.3390/nano10040745	5.77. Q2.	15	81% General Chemical Engineering	S. Kalybekkyzy, A. Mentbayeva, Y. Yerkinbekova, N. Baikalov, M.V. Kahraman, Z	корреспонденция авторы
33.	Li1+xAlxTi2x (PO4)3, NASICON-type solid electrolyte fabrication with different methods	мақала	Materials Today Proceedings 10.1016/j.matpr.2019.12.279		17	42% General Materials Science	N. Tolganbek, B. Uzakbaiuly, K. Kanamura, Z. Bakenov, Z	соавтор
34.	3D FEM Study of the Flow Uniformity of Flat Polypropylene Film/Sheet Extrusion Dies	мақала	Key Engineering Materials https://doi.org/10.4028/www.scientific.net/KEM.841.375	Q4.	2	17% Mechanical Engineering	D. Igali, A. Perveen, D. Wei, D. Zhang, A. Mentbayeva	соавтор

35.	Design & optimization of die body for polymer extrusion	мақала	Key Engineering Materials https://doi.org/10.4028/www.scientific.net/KEM.841.387	Q4.	1	17% Mechanical Engineering	S. Torekhan, B. Ualikhan, D. Zhang, D. Wei, C-N. Sun, A. Mentbayeva, A. Perveen	соавтор
36.	Nanoscale thermal transport and elastic properties of lithiated amorphous Si thin films	мақала	Materials Today: Proceedings https://doi.org/10.1016/j.matpr.2019.11.333		4	42% General Materials Science	A. Abdullaev, A. Mukanova, T. Yakupov, A. Mentbayeva, Z. Bakenov, Z. Utegulov	соавтор
37.	Synthesis of carbon coated Fe3O4 grown on graphene as effective sulfur-host materials for advanced lithium/sulfur battery	мақала	Journal of Power Sources https://doi.org/10.1016/j.jpowsour.2019.226901	9.79. Q1.	41	96% Electrical and Electronic Engineering	H. Li, J. Wang, Y. Zhang, Y. Wang, A. Mentbayeva, Z. Bakenov	соавтор
38.	Flexible S/DPAN/KB Nanofiber Composite as Binder-Free Cathodes for Li-S Batteries	мақала	Journal of The Electrochemical Society 10.1149/2.0571903jes	4.37. Q2.	29	84% Condensed Matter Physics	S. Kalybekkyzy, A. Mentbayeva, M.V. Kahraman, Y. Zhang, Z, Bakenov	корреспонденция авторы

39.	Enhanced electrochemical performance of hollow heterostructured carbon encapsulated zinc metastanate microcube composite for lithium-ion and sodium-ion batteries	мақала	Electrochimica Acta 10.1016/j.electacta.2019.04.167	7.34. Q1.	12	12.3 Chemical Engineering	J. Ma, Z. Zhang, A. Mentbayeva, G. Yuan, B. Wang, H. Wang, G. Wang	соавтор
40.	Flexible free-standing Na4Mn9O18/reduced graphene oxide composite film as a cathode for sodium rechargeable hybrid aqueous battery	мақала	Electrochimica Acta https://doi.org/10.1016/j.electacta.2017.11.015	7.34 Q1	26	12.3 Chemical Engineering	G Yuan, J Xiang, H Jin, Y Jin, L Wu, Y Zhang, A Mentbayeva, Z Bakenov	соавтор
41.	Gel polymer electrolytes for lithium-sulfur batteries	мақала	Materials Today: Proceedings https://doi.org/10.1016/j.matpr.2018.07.104		16	42% General Materials Science	A. Mentbayeva, A. Aishova, B. Isakhov, D. Batyrbekuly, Y. Zhang, Z. Bakenov	соавтор
42.	Development of a novel gel-like	мақала	Materials Today: Proceedings		0	42%	N. Akhmetova, G. Orazbekova,	соавтор

	composite polymer separator for 3D Zn/$LiFePO_4$ aqueous hybrid ion battery		https://doi.org/10.1016/j.matpr.2018.07.101			General Materials Science	E. Kenzhegaliyeva, A. Mentbayeva, A. Molkenova, Z. Bakenov	
43.	Facile Synthesis of SiO_2@C Nanoparticles Anchored on MWNT as High-Performance Anode Materials for Li-ion Batteries	мақала	Nanoscale Research Letters https://doi.org/10.1186/s11671-017-2226-2	2.83	44	94% Condensed Matter Physics	Y. Zhao, Z. Liu, Y. Zhang, A. Mentbayeva, X. Wang, M. Yu. Maximov, B. Liu, Z. Bakenov, F. Yin	соавтор
44.	Enhanced electrochemical performance of sulfur/polyacrylonitrile composite by carbon coating for lithium/sulfur batteries	мақала	Journal of Nanoparticle Research https://doi.org/10.1007/s11051-017-4049-6	2.09	27	69% Modeling and Simulation	H Peng, X Wang, Y Zhao, T Tan, A Mentbayeva, Z Bakenov, Y Zhang	соавтор
45.	Three-dimensionally ordered macroporous carbon encapsulated ZnO nanoparticles as	мақала	Chemelectrochem https://doi.org/10.1002/celc.201700239	4.15. Q1	21	73% Electrochemistry	C. Zhang, Z. Zhang, F. Yin, Y. Zhang, A. Mentbayeva, M-R. Babaa, A. Molkenova, Z. Bakenov	соавтор

	high-performance anode for lithium-ion batteries							
46.	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries	мақала	Solid State Sciences https://doi.org/10.1016/j.solidstatesciences.2017.02.00	4.14. Q2.	66	81% Condensed Matter Physics	Yin, X. Liu, Y. Zhang, Y. Zhao, A. Mentbayeva, Z. Bakenov, X. Wang,	соавтор
47.	High performance freestanding composite cathode for lithium-sulfur batteries	мақала	Electrochimica Acta https://doi.org/10.1016/j.electacta.2016.09.082	7.3 Q1.	53	12.3 Chemical Engineering	Mentbayeva A., Belgibayeva A., Umirov N., Y. Zhang, I. Taniguchi, I. Kurmanbayeva and Z. Bakenov	соавтор
48.	Nickel Hexacyanoferrate Nanoparticles as a Low Cost Cathode Material for Lithium-Ion Batteries	мақала	Electrochimica Acta https://doi.org/10.1016/j.electacta.2015.10.031	7.3 Q1..	62	12.3 Chemical Engineering	Omarova, A. Koishybay, N.Yesibolati, A. Mentbayeva, N. Umirov, Z. Bakenov	соавтор
49.	A Free-Standing	мақала	Nanoscale Research Letters	2.84.	61	94%	Y. Zhao, F. Yin,Y. Zhang,	соавтор

	Sulfur/Nitrogen-Doped Carbon Nanotube Electrode for High-Performance Lithium/Sulfur Batteries		https://doi.org/10.1186/s11671-015-1152-4			Condensed Matter Physics	C. Zhang, A. Mentbayeva, N. Umirov, H. Xie, Z. Bakenov	
50.	High mass-loading of sulfur-based cathode composites and polysulfides stabilization for rechargeable lithium/sulfur batteries	мақала	Front. Energy Res https://doi.org/10.3389/fenrg.2015.00022	3.4	12	2.9	T. Hara, A. Konarov, A. Mentbayeva, I. Kurmanbayeva, Z. Bakenov	соавтор
51.	Small-molecule-hosting nanocomposite films with multiple bacteria-triggered responses	мақала	Nature Publication Group Asia Materials https://doi.org/10.1038/am.2014.63	2.5.Q1	60		S.V. Pavlukhina, I.Zhuk, A.A. Mentbayeva, S. Sukhishvili	соавтор