

Department of Mechanical Engineering

Journal publications

A.Y: 2023-24

Semester-I&II

S.No	Name of the Faculty	Title of the Paper	Name of Journal	Month & Year	ISSN/ Issue No	DOI	Scopus/SCI/others
1	Dr L Jayahari	Evolution and Characterization of Zirconium 702 alloy at various temperatures	Archives of Metallurgy and Materials(SCIE Journal)	August 2023	68(2023),2,807-812	https://doi.org/10.24425/ammm.2023.142465	SCI
2	Dr L Jayahari	A critical review of fabrication routes and their effects on mechanical properties	Materials Today: Proceedings	March 2023	32;19-6	https://doi.org/10.1016/j.matpr.2023.03.041	SCI
3	Dr L Jayahari	Fabrication and characterization of magnesium-based mg-titania surface composite for bioimplants	Surface Review and Letters(SCIE Journal)	April 2023	14;71-9	https://doi.org/10.1142/S0218625X23400036	SCI
4	Mr K Praveen Kumar	Role of processing temperature on microstructure, mechanical properties and corrosion behavior of fine grained AZ31 magnesium alloy produced by groove pressing	Materialwiss. Werkstofftech.	January 2023	54;897-8	https://doi.org/10.1002/mawe.202200332	Scopus

Conference publications (SCI/Scopus Index/Wos)

S.No .	Name of the Faculty	Title of the Paper	Name of Journal/Conference	Month & Year	ISSN/ Issue No	DOI	Scopus/SCI/others
1	Lade, J., Kalluri, A., Baloji, D., Kalpana, K., Sateesh, N., Joshi, K., & Priyanka, G.	Characterization of Polymethyl Methacrylate (PMMA) Composites with Graphite	E3S Web of Conferences-scopus	October,2023	430, 01143	https://doi.org/10.1051/e3sconf/202343001143	
2	Lade, J., Baloji, D., Sharath, M. S., Raju, G., Kalluri, A., Lakshmi, A. A., & Memoria, M	Finite Element Analysis on Experimental Stretch Forming Process of AA2014 Alloy at 423 to 623K Temperatures	E3S Web of Conferences-scopus	October,2023	430,01141	https://doi.org/10.1051/e3sconf/202343001141	Scopus

3	Jayahari, L., Bhandari, P., Ranakoti, L., Bisht, V.S., Lila, M.K., Kumar, K., Joshi, K., Raju, N.G., Sobti, R. and	Thermo-hydraulic investigation of two stepped micro pin fin heat sink having variable step size	E3S Web of Conferences-scopus	October, 2023	43 0,01177	https://doi.org/10.1051/e3sconf/202343001177	Scopus
4	Baloji D, Satyanarayana K, Babu KR, Chary SV, Kumar CP, Chowdary DY, Gatea MA, Ahmad	Experimental And Finite Element Studies of Stretch Forming Process for AA2014 Alloy At Elevated Temperature	E3S Web of Conferences-scopus	January, 2023	391,01010	https://doi.org/10.1051/e3sconf/202339101010	Scopus
5	Baloji D, Satyanarayana K, Babu KR, Chary SV, Kumar CP, Chowdary DY, Gatea MA, Ahmad	Tensile And Formability Studies on AISI 310 Austenitic Stainless Steel	E3S Web of Conferences-scopus	January, 2023	391,01033	https://doi.org/10.1051/e3sconf/202343001141	Scopus

6	Baloji D.,Kumar S, Kumar K, Singh J, Acharya P, Bhandari P, Vaqur M, Subbiah R, Kaur N, Baloji D.	Optimization of Sustainable Process Parameters of Friction-Stir Welding of Aluminium Alloy by Taguchi Method	E3S Web of Conferences-scopus	October,2023	430,01179	https://doi.org/10.1051/e3sconf/202343001179	Scopus
7	Baloji D,Subbiah R, Kumar A, Sateesh N, Pradeep PS, Josh SK, Baloji D	Analysis of Wear Behaviour on AISI 431 Martensitic Stainless Steel by Vacuum Annealing Process	E3S Web of Conferences-scopus	October,2023	430,01016	https://doi.org/10.1051/e3sconf/202343001016	Scopus
8	Awaar VK, Rani MS, Bellal SV, Kurva GK, Kirola M, Baloji D	Modeling and Development of Wireless Power Transmission System for Electric Vehicles	E3S Web of Conferences-scopus	October,2023	430,01008	https://doi.org/10.1051/e3sconf/202343001007	Scopus
9	Praveen K , Bheemana athy S, Reddy SJ, Kumar MD, Baloji D , Buddi T	Experimental Formability and Finite Element Studies on AISI310 Austenitic Stainless Steel	E3S Web of Conferences-scopus	October,2023	430,01142	https://doi.org/10.1051/e3sconf/202343001142	Scopus

10	Pande SS, Neeraja B, Kumar KK, Sathish S , Mounika L, Patra JP.	Off-policy reinforcement based on safe model eco driving education for fully automated hybrid vehicles	IEEE Conference	January,2023	979-8-3503-4664- 0	10.1109/ICEARS56392 .2023.10085149	Scopus
11	Singarapu S, Swaraja K, Kirola M.	Smart Iot Based Solar Panel Cleaning System	E3S Web of Conferences- scopus	February,2023	430,01147	https://doi.org/10.1051/ e3sconf/202343001147	Scopus
12	Awaar VK, Rani MS, Rao BN, Kumar UP, Tiwari S, Singarapu S.	Modelling and Development of Static Wireless Charging System for Electric Vehicles	E3S Web of Conferences- scopus	October,2023	430,01007	https://doi.org/10.1051/ e3sconf/202343001008	Scopus
13	ul Haq MZ, Sood H, Kumar R, Chaudhary P, Lavanya C, Dhaliwal N, Singarapu S, Kumar K.	Waste upcycling in construction;Geopolymer bricks at the vanguard of polymer waste renaissance	E3S Web of Conferences- scopus	October,2023	430,01203	https://doi.org/10.1051/ e3sconf/202343001205	Scopus

14	Saravanan G, Rahul V, Mahatme U, Reddy GK, Sharon T, Suresh G, Karthikeyan R, Subbiah R	Assesment of wear characteristics on treated AISI 410 stainless steels by Annealing process	E3S Web of Conferences-scopus	January,2023	391,01108	https://doi.org/10.1051/e3sconf/202339101108	Scopus
15	Kalpana K, Reddy MB, Sailani S, Poornima E, Chaudhary P.	Design and Fabrication of staircase elevator with lead screw mechanism for elderly people	E3S Web of Conferences-scopus	October,2023	430,01144	https://doi.org/10.1051/e3sconf/202343001144	Scopus
16	Kondala Rao P, Manohar B, Raghavendera H, Kumar MV, Subbiah R, Vaqur M.	Fabrication and mechanical properties valuation of Natural fiber and filler-based hybrid polymer composites	E3S Web of Conferences-scopus	October,2023	430,01145	https://doi.org/10.1051/e3sconf/202343001145	Scopus

17	S. Venu kumar, Murali C, Venkata K, Viswanadha palli Balaji and Amita B.	A review on binder jetting additive manufacturing of Engineering materials	E3S Web of Conferences- scopus	October,2023	430,01146	https://doi.org/10.1051/ e3sconf/202343001146	Scopus
18	Lade J, Baloji D, Seshachar yulu K, Govardha n D, Butchiraju K, Rozhdestv enskiy	OI. Effect of strain rates on the forming properties of DP Steel at high-temperature.	InMATEC Web of Conferences 2024	March 2024	(Vol. 392, p. 01012). EDP Sciences.	https://doi.org/10.1051/ matecconf/2024392010 12	MATEC Web of Conferences 2024
19	Anil K, Aslesha C, Mahanti VP, Baloji D, Pavani P, Vladimiro vich K.	An analysis comparing the mechanical properties of ASS 316L at high and Sub-zero temperatures.	InMATEC Web of Conferences 2024	March 2024	(Vol. 392, p. 01021). EDP Sciences.	https://doi.org/10.1051/ matecconf/2024392010 21	MATEC Web of Conferences 2024

20	Baloji D, Seshachar yulu K, Nikitha M, Gundavara pu MR, Dixit S.	Frictional behaviour of DP steel in sheet metal forming at Various temperatures.	InMATEC Web of Conferences 2024	March 2024	(Vol. 392, p. 01013). EDP Sciences.	https://doi.org/10.1051/ mateconf/2024392010 13	MATEC Web of Conferences 2024
21	Kakarla US, Venkatara mana A, Gopinath S, Shivaram K, Yugendhar K, Harika KV, Dixit S.	Revolutionizing Agricultural Harvesting with IoT Application.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01014). EDP Sciences.	https://doi.org/10.1051/ mateconf/2024392010 14	MATEC Web of Conferences 2024

22	Kumar KP, Sridhar B, Ramakrishna C, Hemanth M, Jyothi V, Kumar M.	Mechanical characterization of bamboo and glass fiber hybrid composite material.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01015). EDP Sciences.	https://doi.org/10.1051/mateconf/202439201015	MATEC Web of Conferences 2024
23	math Suresh P, Dev PV, Gupta G.	Active flutter suppression for an aircraft wing structure by utilizing FE analysis for Al7075+ Sic alloy.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01016). EDP Sciences.	https://doi.org/10.1051/mateconf/202439201016	MATEC Web of Conferences 2024
24	Singarapu S, Siri D, Nemova DV.	Study of a fuzzy logic-based approach to supplier selection.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01018). EDP Sciences.	https://doi.org/10.1051/mateconf/202439201018	MATEC Web of Conferences 2024
25	Reddy GK, Subbaiah R, Sravanthi J, Vafaeva KM.	Influence of aisi 304 austenitic stainless steel by aqueous soluted nitriding and gas nitriding.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01019). EDP Sciences.	https://doi.org/10.1051/mateconf/202439201019	MATEC Web of Conferences 2024

26	Kumar GD, Subbaratnam B, Seshappa A, Bhargavi YK, Iurevna K, Usanova U.	Optimization of Engineering Properties in Al-7175/SiC/B4C Alloy.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01020). EDP Sciences.	https://doi.org/10.1051/mateconf/2024392010 20	MATEC Web of Conferences 2024
27	Seshappa A, Raj KP, Subbaratnam B, Kumar MA, Priya I, Rozhdestvenskiy OI	. Exploration of the mechanical characteristics of al7075 metal matrix composite enhanced with fe3o4 and pksa.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01022). EDP Sciences.	https://doi.org/10.1051/mateconf/2024392010 22	MATEC Web of Conferences 2024

28	Seshappa A, Hiranmai N, Subbaratnam B, Raj KP, Sravya B, Singla AK	Fabrication and characterization of sic, tio2, and pksa hybrid aluminum-based metal matrix composites.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01023). EDP Sciences.	https://doi.org/10.1051/mateconf/202439201023	MATEC Web of Conferences 2024
29	Seshappa A, Subbaratnam B, Raj KP, Boya D, Sobti R.	Investigation of Al-7075/Al2O3/SiC by swirl casting and WEDM.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01024). EDP Sciences.	https://doi.org/10.1051/mateconf/202439201024	MATEC Web of Conferences 2024

30	Seshappa A, Maheshbabu P, Subbaratnam B, Kumar SN, Sravanthi J, Singh N.	Investigating the mechanical properties of al7075 metal matrix composite with improved performance through the incorporation of fe3o4 and RHS.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01025). EDP Sciences.	https://doi.org/10.1051/mateconf/2024392010 24	MATEC Web of Conferences 2024
31	Seshappa A, Raj KP, Subbaratnam B, Rao BC, Kumari BG, Divya B, Lakhanpa S.	Impact of TiB2 Particles on Improving rocessing Parameters of TiB2/Al Metal Matrix Composites.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01026). EDP Sciences.	https://doi.org/10.1051/mateconf/2024392010 26	MATEC Web of Conferences 2024

32	Seshappa A, Raj KP, Subbaratnam B, Pranavi U, Chhabra S.	Investigations of Al-Manufacturing while 7075/RHA/Al ₂ O ₃ Composite by Squeeze Casting Approach.	InMATEC Web of Conferences 2024	March 2024	InMATEC Web of Conferences 2024 (Vol. 392, p. 01027). EDP Sciences.	https://doi.org/10.1051/ mateconf/2024392010 27	MATEC Web of Conferences 2024
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