



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

Department of Mechanical Engineering

Publication for the year July 2024 - Jun 2025 (Till date)

Total-25

SCI/SCIE -18, Scopus - 07

Book chapter - 02

S. No	Authors	Title	Journal	DOI/Volume and Page	SCI/Scopus	Publisher	Quartile
1	M. Lakshmana Rao, B. Raghu Kumar, V. Kalyana manohar, G. Harinath Gowd	Trend-Forecasting of Covid-19 Cases using Regression Analysis and Python	Grenze International Journal of Engineering and Technology	Vol:10 Issue:2	Scopus	GRENZE Scientific Society	-
2	Arunnelliappan T, Ilangovan Arun, R. Prithvirajan, S. Baskaran	Hot Corrosion Behavior of Electrical Discharge Coated Duplex Stainless Steel Under Sulfur Environment	Transactions of the Indian Institute of Metals	https://doi.org/10.1007/s12666-024-03432-7	SCIE	Springer	Q2
3	Harinadh Vemanaboina, Ankammarao Padamurthy, Praveen Kumar Gandla, Lakshman Rao Muppa, K. Lakshmi kala	Microstructure, Wear and Residual Stresses of Selective Laser Melting AISi10Mg solid cylinder	Part E: Journal of Process Mechanical Engineering	DOI: 10.1177/09544089241272825	SCI	Sage	Q3
4	Anantha Raman L	Enhanced removal of Manganese ions from wastewater media by oxidized MNT-Based Filters: EDS and Raman Investigations	IOP Publishing		Scopus	IOP Publishing	-
5	Narayana Turali, Shahid Saleem, Venkatesh Muddada, Deepak Kumar	Enhancing tribological performance of AISI 52100: the role of laser	Engineering Research Express	10.1088/2631-8695/ad853b	Scopus	IOP Publishing	-

	Naik, Dowluru Sreeramulu, Azad Duppala, Mohammed Dilawar and Kalyani Radha Radha	surface texturing in dry and lubricated conditions					
6	Jagesh Kumar Prusty, George Papazafeiropoulos, Dhaneshwar Prasad Sahu, Sukesh Chandra Mohanty	Free vibration analysis of sandwich shells with cutouts: An experimental and numerical study with artificial neural network modeling	Mechanics of Advanced Materials and Structures	https://doi.org/10.1080/15376494.2024.2414412	SCIE	Taylor & Francis	Q1
7	S.K. Balla, R.K.Konki, M.Manjaiah, A.Joshi	Optimization of laser powder bed fusion process parameter for the fabrication of AISi12 using NSGA-II and Pareto search algorithm	Materials Science and Engineering Technology	https://doi.org/10.1002/mawe.202400098	SCIE	Wiley	Q2
8	S. S. Prakash, J. K. Prusty, P. Das, S. Choudhury, M. K. Muni, M. Biswal & S. K. Sahu	Buckling data trained fuzzy logic for crack detection in composite glass/epoxy laminated beam	Mechanics of Advanced Materials and Structures	https://doi.org/10.1080/15376494.2024.2427392	SCIE	Taylor & Francis	Q1
9	K Sivakumar, S Manoj Kumar, G Saravanan & G. Mahendran	Mechanical, wear, fatigue, water absorption and flammability of silane-treated Indian squid chitin powder-dispersed pineapple fiber-polyester composite	Polymer Bulletin	https://doi.org/10.1007/s00289-024-05589-z	SCI	Springer	Q2
10	Dhaneshwar Prasad Sahu,	Frequency analysis of	Mechanics of	https://doi.org/10.10	SCIE	Taylor & Francis	Q1

	Ramyaranjan Das, Jagesh Kumar Prusty, & Suresh Chandra Mohanty	skew sandwich plates with polyethylene terephthalate foam-core and carbon/basalt fiber-reinforced hybrid face layers using ANFIS model and experimental validation.	Advanced Materials and Structures	80/15376494.2024.2438910			
11	S. Gejendhiran, A. Karpagaraj, S. Baskaran, R. Prithivirajan, D. Aravindhana, A.G. Karthikeyan	Experimental studies on dilution, microstructural, mechanical and wear characteristics of Inconel 718 deposited over stainless steel 304 employing cold metal transfer process	Materials Letters	https://doi.org/10.1016/j.matlet.2024.137795	SCI	Elsevier	Q1
12	G. Mahendran, S. Manoj Kumar, V. C. Uvaraja & Hanish Anand	Effect of Wheat Husk Biogenic Ceramic Si3N4 Addition on Mechanical, Wear and Flammability Behaviour of Castor Sheath Fibre-Reinforced Epoxy Composite	Journal of the Australian Ceramic Society	https://doi.org/10.1016/j.jascer.2025.01153-8	SCIE	Springer	Q3
13	Dhaneshwar Prasad Sahu, Ramyaranjan Das, Jagesh Kumar Prusty, & Suresh Chandra Mohanty	Flexural and dynamic characterization of carbon/basalt hybrid laminated composite sandwich plates with PET foam core: A numerical and experimental approach	Structures	https://doi.org/10.1016/j.istruc.2025.108204	SCI	Elsevier	Q1

14	G. Venkatesan, A. Perumal, R. Prithivirajan, S. Muthu Natarajan & P. Balasundar	Investigation of mechanical properties of environmentally friendly human hair fiber-reinforced polymer composite	Journal of Polymer Research	https://doi.org/10.1007/s10965-024-04236-5	SCI	Springer	Q2
15	Thota S S Bhaskara Rao, Manikandaraja Gnanaprakasam, Rajayokkiam Manimaran, Dhinesh Balasubramanian, Utku Kale, Artūras Kilikevičius	Sustainable, Synthesis and Advanced Optimization of Prosopis Juliflora Biomass Catalyst for Efficient Biodiesel Production and Environmental Impact Assessment	Scientific Reports	https://doi.org/10.1038/s41598-025-88355-z	SCI	Nature Portfolio	Q1
16	Rupshree Ozah, J. V. Sai Prasanna Kumar, S. Hanish Anand & C. Ramesh Kumar	Experimental investigation on mechanical, flammability, wear and thermal properties of 3D printed Polylactic acid composite contain rice husk ash Si3N4 nanoparticle	Journal of the Australian Ceramic Society	https://doi.org/10.1007/s41779-025-01154-7	SCIE	Springer	Q3
17	Prudhivi Anuradha, Lakshmi pathi Anantha Raman, Dandam Siva Kumar Goud, Mamini Sravani, Overse Sai Balaji	Design and Implementation of an IoT-Enabled Medication Delivery Robot for Isolated Patient Care	IEEE Explore	https://doi.org/10.1109/ICSSAS64001.2024.10760515	Scopus	IEEE	
18	Dhaneshwar Prasad Sahu, Ramyaranjan Das, Jagesh Kumar	Tensile, flexural, and vibration analysis of MWCNT-basalt	Polymer Composites	https://doi.org/10.1002/pc.29657	SCI	Wiley	Q1

	Prusty, Sukesh Chandra Mohanty	sandwich composites for car bonnet utility					
19	Velmurugan Ganesan, Jasgurpreet Singh Chohan, Arunkumar Damodharan, Prabhu Paramasivam & Ramya Maranan	High-performance biocomposites: leveraging lotus fiber and waste Kigelia pinnata fruit shell biochar for enhanced mechanical and fire-retardant properties	Polymer Bulletin	https://doi.org/10.1007/s00289-025-05702-w	SCI	Springer	Q2
20	Dhrubajit Sharma Rupshree Ozah, Muthumari Chandrasekaran, Ashok Kumar Sahoo, Ramanuj Kumar, Satyajit Pattanayak	Material-specific machining optimization of Ti6Al4V alloy under MQL: A sustainability-centric approach	Next Materials	https://doi.org/10.1016/j.nxmater.2025.100586	Scopus	Elsevier	Q2
21	S. Madhankumar, D. Arunkumar, Ch Mohan Sumanth, Akhilesh Kumar Singh, M.N.V.S.A. Sivaram Kotha, L. Feroz Ali	Drying kinetics, mathematical modelling and colour analysis of an indirect solar dryer with latent heat storage unit for cucumber drying	Solar Energy	https://doi.org/10.1016/j.solener.2025.113431	SCI	Elsevier	Q1
22	Senthilkumar Duraisamy, Jayant Giri, Thota S S Bhaskara Rao, Mohammad Kanan & Rajayokkiam Manimaran	Optimization of cashew nut shell biodiesel production with industrial waste catalysts and butanol additives for ecofriendly CRDI engine applications	Scientific Reports	https://doi.org/10.1038/s41598-025-93805-9	SCI	Nature Portfolio	Q1
23	Suja Thangaraj, P. Muruganandhan, S. Eswaran, K. Meenatchi, A.	Analysis of Thermal Heat Transfer Systems Integrated with Foam of	International Journal of Vehicle Structures &		Scopus	Carbon Magics Ltd, UK.	Q4

	Muthulakshmanan, S. Nanthakumar, P. Pitchandi, Kondusamy V, Guruprasad B and R. Girimurugan	Polystyrene into Phase Change Materials	Systems				
24	R. Jayaraman, R. Edwin Joseph, Pon. Maheskumar, V. Kiruthiga Devi, A. R. Venkataramanan, K. Kiran Uday, A. Muthulakshmanan, Kondusamy V, Murugan K and R. Girimurugan R	Analysis of Characteristics of PCM Inside Altered Design of Shell and Tube Thermal Energy Storage Unit	International Journal of Vehicle Structures & Systems		Scopus	Carbon Magics Ltd, UK.	Q4
25	Dhrubajit Sarma, Rupshree Ozah, Jyotisman Borah, Muthumari Chandrasekaran & Ashok Kumar Sahoo	Intelligent Machine Learning Strategies for Minimizing Machining Power in Minimum Quantity Lubrication Machining of Ti6Al4V Alloy	Journal of Materials Engineering and Performance	https://doi.org/10.1007/s11665-025-10989-x	SCI	Springer	Q2




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Book Chapters for the year 2024-2025

Total -02

Scopus-02 , Non Scopus-00

S. No	Authors	Title	BOOK	Chapter	Publisher	DOI	ISSN (Print)	Date
1	Kamlesh Kumar & Manoj Masanta	Welding of Ti-6Al-4V Alloy-A Review	Advances in Manufacturing Engineering Select Proceedings of ICFAMMT 2024	Welding-4	Springer	https://doi.org/10.1007/978-981-97-4324-7_15	978-981-97-4323-0	31 July 2024
2	K.N. Bharath, Ajith G. Joshi, Amreen Taj, P.S. Shivakumar Gouda, M. Nagamadhu	Evolution and recent advancements of composite materials in sports applications	Applications of Composite Materials in Engineering	9	Elsevier	https://doi.org/10.1016/B978-0-443-13989-5.00009-7	Pages 219-228, ISBN : 9780443139895	2025


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