



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

Department of Mechanical Engineering

Publication for the year July 2023-Jun 2024

Science Citation Indexed – 16

Scopus - 10

Others - 02

S. No	Authors	Title	Journal	DOI/Volume and Page	SCI/Scopus	Publisher	ISSN (Print)	Citations
1	G. Velmurugan1 · L. Natrayan · Jasgurpreet Singh Chohan · P. Vasanthi · S. Angalaeswari · P. Pravin · S. Kaliappan · D. Arunkumar	Investigation of mechanical and dynamic mechanical analysis of bamboo/olive tree leaves powder-based hybrid composites under cryogenic conditions	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-023-04591-1 11 th July 2023	SCI	Springer	-	-
2	Arunkumar D. · Latha A. · Suresh Kumar S. · Jasgurpreet Singh Chohan · Velmurugan G. · Nagaraj M.	Experimental Investigations of Flammability, Mechanical and Moisture Absorption Properties of Natural Flax/NanoSiO ₂ Based Hybrid Polypropylene Composites	Silicon	https://doi.org/10.1007/s12633-023-02611-3 1 st August 2023	SCI	Springer	-	-
3	P. Sivaiah, M. Sudheera, Muralidhar Singh M & C. Yuvaraj	Performance evaluation of developed new textured tools during turning of AISI 321	Materials And Manufacturing Processes	https://doi.org/10.1080/10426914.2023.2260460 5 th Septemeber 2023	SCI			

		material							
4	Yuvarajan Devarajan DineshBabu Munuswamy D Arunkumar T Raja · Ruby Mishra	Application of potential green algal for power generation as a likely and fractional alternative	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-023-04870-x 25 th September 2023	SCI	Springer	-	-	
5	Vijay Ramarao Khawale Ali Alshamrani Satishkumar Palanisamy Barun Haldar Sivakumar Ramamurthy Maria John Justin Suresh Krishnamoorthy Manish Sharma Nashmi H. Alrasheedi	Analysis Of Interfacial Heat Transfer Coefficients Insqueeze Casting Of Aa6061 Aluminum Alloy With H13steel Die: Impact Of Section Thickness On Thermal Behavior	THERMAL SCIENCE International Scientific Journal	https://doi.org/10.2298/TSCI230310272K 21 st October 2023	SCI	Thermal Science	-	-	
6	Lakshmi Narasimhamu Katta, Manikandan Natarajan, and Thejasree Pasupuleti, Narapureddy Siva Rami Reddy, Potta Sivaiah	Artificial Intelligence Model for Machinability Investigations on Drilling of AA6061 with Micro Textured Tool for Automobile Applications	SAE International	doi:10.4271/2023-28-0082. November 2023	Scopus	Springer			
7	M. Lakshmana Rao B. Raghukumar G. Harinath Gowd N. Gangi Setty	Optimization Of Transportation Cost Through Data Science Using	Industrial Engineering Journal	NA November 2023	UGC Care 1	Indian Institute of Industrial Engineering	-		
8	Raghu Kumar Bandlamudra Lakshmana Rao Muppa Sasidhar Muttunenic Chirnajivi Paritalac	A machine learning based approach to study effect of various Parameters on tomoto	Industrial Engineering Journal	NA November 2023	UGC Care 1	Indian Institute of Industrial Engineering	-		


		crop yield						
9	M. H. Divakar S. Basavarajappa Ajith G. Joshi	Comparative Performance Analysis of Gr and MoS ₂ Solid Lubricants During High-Temperature Dry Sliding Wear Behavior of Al ₂ O ₃ -Based Hybrid MMCs	Journal of The Institution of Engineers (India): Series D	https://doi.org/10.1007/s40033-023-00585-5 7 th December 2023	Scopus	Springer	-	-
10	Dipankar Saha, Bidesh Royb, Satyajit Pattanayak , Laxman Mishra Patit Paban Kundu	Performance, emission, combustion, exergy, exergoeconomic and sustainability analyses of EGR incorporated CI engine fuelled with areca nut husk nano-additive dosed plastic oil–water–diesel emulsion blend	Thermal Science and Engineering Progress	https://doi.org/10.1016/j.tsep.2023.102317 7 th December 2023	SCI	ELSEVIER		
11	Shravan Khunti Prikshit Kumar M.Lakshman Rao T Vijay Muni Varun Sanjeev Singh Shaik Chand Mabhu Subhani	Application of Machine Learning and Deep Learning Algorithms to the Prediction of Stock Market Trends	IEEE	NA December 2023	Scopus	IEEE	-	-
12	Kalyanamanohar Veeramallu, Lakshman Rao Muppa , K. Krishna Bhaskar, A. Gopalakrishna	A Low-Cost Method To Improve The Thermal Stability Of Graphene Nanoplatelets	Tuijin Jishu/Journal of Propulsion Technology	NA December 2023	Scopus	Tuijin Jishu	-	-
13	Deepanraj Balakrishnan Prabhakar Sharma	AI-based Prognostic Analysis of NOx	IEEE-Explorer (Conference)	DOI: 10.1109/ICOTL5975	Scopus	IEEE-Explorer		

	Feroz Shaik Anantha Raman Lakshmipathi	Emission from Industrial Diesel Engine for Feedback Control System		8.2023.10435308 December 2023				
14	Vinothkumar Sivalingam· Haochen Liu· Baskaran Selvam Guo Kai · Poongavanam Ganesh Kumar · Munish Kumar Gupta · Mehmet Erdi Korkmaz, Jie Sun	Towards sustainability assessment, energy consumption, and carbon emissions in cryogenic drilling of Alloy 20: a new approach towards sustainable future and challenges	The International Journal of Advanced Manufacturing Technology	https://doi.org/10.1007/s00170-024-13144-3 28 January 2024	SCI	Springer	-	-
15	Vinothkumar Sivalingam, Qian Zhou, Nimel Sworna Ross, Saurabh Tiwari, Baskaran Selvam , Jie Sun, Munish Kumar Gupta	Identification of tool wear and surface morphology measurements in sustainable milling of AI6082 hybrid metal matrix composite	Journal of Material Research and Technology	https://doi.org/10.1016/j.jmrt.2023.11.109 13 November 2023	SCI	Elsevier		
16	S. Somasundaram · S. Manoj Kumar · S. Hanish Anand · A. Muthulakshmanan	Mechanical, wear, hydrophobic, and thermal behavior of waste cassava root cellulose and twill-weaved banana fiber-reinforced unsaturated polyester composites	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-024-05349-z 20 January 2024	SCI	Springer	-	-
17	N.Nithyanandan, G.Gokilakrishnan, S.Manoj Kumar, S.Hanish Anand	Characterization of heat-treated biosilica from biomass waste fox tail millet husks and banana fiber reinforced	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-024-05411-w	SCI	Springer		

		epoxy composite						
18	P. Sivaiah, N. Siva Balaji, K. Lakshmi Narasimhamu & V. Chengal Reddy	Comparative analysis and experimental exploration of the milling process in the machining of Inconel 825 material under MQL	Materials and Manufacturing Processes	https://doi.org/10.1080/10426914.2024.2311387 23 rd Jan 2024	SCI	Taylor & Francis		
19	G. Velmurugan , G. Kumar , Jasgurpreet Singh Chohan , S. Nithya Sree , J. Akash , J.B. Deepthi	Experimental investigation of mechanical and erosion properties of twill E-glass/sisal fiber reinforced hybrid polymer composite	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2024.03.032 16 th March 2024	Scopus	Elsevier		
20	Ilangovan Arun, Igor Velkavrh, Uma Rani. R Sivakumar Annamalai, Yuvaraj. C	Electrical discharge shape memory alloying of Ti-6Al-4V: Mechanisms and Mechanical properties	Journal of Process Mechanical Engineering	https://doi.org/10.1177/09544089241259665 16 th May 2024	SCI	Sage		
21	Mr.Jagannath Pattar Dr.D Ramesh	Study of the Mechanical Properties of Composite Materials AA6063 Reinforced with B4C &TiO2 for Engineering Application	Tuijin Jishu/Journal of Propulsion Technology	https://doi.org/10.52783/tjjpt.v44.i3.687	Scopus	Tuijin Jishu/Journal of Propulsion Technology	1001-4055	
22	P. Shirley, Jagannath Pattar,C.	Microgrids with day-ahead energy forecasting for efficient energy management in smart grids: hybrid CS-RERNN	Australian Journal of Electrical and Electronics Engineering	https://doi.org/10.1080/1448837X.2024.2312488 14 th Jan 2024	SCI	Taylor & Francis		
23	Jagannath Pattar,C.	Investigation of	Frontiers in	doi:10.3389/fmech.2024.2312488	Scopus	Frontiers	-	-

	P. Shirley, Jay Kumar, Pawan Kumar, Vishwanatha H. M.	AA6063-based metal matrix composite reinforced with TiO2 dispersoids for its mechanical, tribological, and microstructural characteristics through digitally assisted techniques	Mechanical Engineering	024.1393959 13 th May 2024				
24	Mr.Jagannath Pattar Dr.D Ramesh, Bhaskar HB, Manjunatha T S	Investigating the Multifaceted Applications of Nanotechnology in Wireless Sensor Networks for Environmental Monitoring: Advancing Monitoring Capabilities for a Sustainable Future	IEEE-Explorer (Conference)	I: 10.1109/ICSEIET58 677.2023.10303440	Scopus	IEEE- Explorer	-	-
25	R. Suresh, Ajith G. Joshi , M.Manjaiah, Satish Kumar, K.N. Bharath	Mechanical Behaviour and Sliding Wear Assessment of Al2024/TiC Metal Matrix Composite using Taguchi and Spotted Hyena Optimization	Scientia Iranica		SCIE	Sharif University of Technology		
26	Velmurugan. G, Jasgurpreet Singh Chohan, Siva Balaji. N , Nagaraj. M, Karuppasamy. S, Praveen Barmavatu, P.	Exploring the Synergy: Nano SiO ₂ Reinforcement in Basalt Fiber Epoxy Composites for Improved Tribological	Journal of Balkan Tribological Association		Scopus	SciBulCom Ltd.		2024

	Gururama Senthilvel	and Mechanical Properties						
27	S. Godavarthi, Sunil Singh Kushvaha, D. Saha, Mohammad Altaf, Nanda Kumar Reddy Nallabala, C. Yuvaraj , M. Ramprasad Reddy, Mohan Kumar Kesarla, K. Rahim Bakash, G. Gopi Krishna, P. Rosaiah, T.V.K. Karthik, Vasudeva Reddy Minnam Reddy	Realization of CO ₂ gas sensors and broadband photodetectors using metal/high- <i>k</i> CeO ₂ /p-Si heterojunction	Ceramic International	https://doi.org/10.1016/j.ceramint.2024.05.482	SCI	Elsevier		June 2024
28	Kummara Venkata Krishnaiah, P. Venkatalakshamma, K. Upenra Kumar, P. Haritha, V. Lavin, I.R. Martin, N. Ravi, H. Satish Kumar Reddy, V. Venkatramu, Nanda Kumar Reddy Nallabala, C. Yuvaraj	Structure, morphology, photonconversion and energy transfer characteristics of Er ³⁺ /Yb ³⁺ :BaYF ₅ nanocrystals synthesized by hydrothermal method for photovoltaics	Ceramic International	https://doi.org/10.1016/j.ceramint.2023.05.225	SCI	Elsevier		August 2023

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Book Chapters for the year 2023-2024								
Total - 04								
Scopus-02, Non Scopus-02								
S. No	Authors	Title	BOOK	Chapter	Publisher	Press	ISSN	Date

							(Print)	
1	V. R. Lenin, V. Suresh Kannan, R. Muthukumar, Ayaz Ahmad, Shubhajit Halder, Rama Krishna Yellapragada, S. Vijayalakshmi	Nanotechnology for Sustainable Energy Storage Devices in Medical Applications		31 https://doi.org/10.1201/9781003355755	Taylor & Francis	CRC	9781003355755. (ISBN)	21 July 2023
2	Dr. L. Anantha Raman, Dr. K. Visagavel, Dr. L. Amol Mangrulkar, Mr. V.K. Nithin, Mr. Vinjamuri Sree Naga Chidambara Dattu	Thermodynamics Field Formulation And Turbulent Modeling	Thermodynamics Field Formulation And Turbulent Modeling	All	Cosmas Scientific Publications		978-81-962332-7-3	
3	Pankaj Kaushik, Ranjan Kumar, Manjiaiah M., and Ajith G. Joshi	Studies on Cold Metal Transfer Welding of Aluminum 5083 Alloy to Pure Titanium	Advance Joining Process	https://doi.org/10.1201/9781003327769	Taylor & Francis	CRC	9781003327769	13 March 2024
4	Dr. L. Anantha Raman, Dr. D. Sendil Kumar	Introduction to Heat Transfer	Introduction to Heat Transfer		Cosmas Scientific Publications		978-93-6096-435-1	June 2024