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RESEARCH PUBLICATIONS FOR THE ACADEMIC YEAR: 2024-25

DEPARTMENT OF MECHANICAL ENGINEERING

S.No.	Title	Journal	Authors	ISSN / ISBN No.	Volume & page no	Month & Year	DOI	Whether peer reviewed. Impact factor, if any	Indexed by SCI-E/SCOPUS/U GC
1	Optimizing the thermal performance of a double-pipe heat exchanger using twisted tapes with variable cuts and Fe3O4 nanofluid	Journal of Thermal Engineering	Dr. Satish Pujari	0040-6015	Volume: 10 Issue: 5	September & 2024	-	-	ESCI
2	Impact of Al and Cu elements on single phase high Entropy Alloys: A Review	Journal of Technology	Dr. Satish Pujari	1012-3407	-	2024	-	-	
3	An Advance Study of an Efficient CNN-Grounded Deep Learning Classification Technique for the Diagnosis of IoT based Cardiac Arrhythmias	Journal of Intelligent Systems and Internet of Things	Dr. K. Sridhar	2769-786X.		August 1, 2024	https://doi.org/10.54216/JISIoT.130113	-	SCOPUS
4	Machine learning and IoT based Predictive Maintenance for the industrial motors for sustained	J. Electrical Systems	Dr. K. Sridhar	1112-5209	Vol. 20 No. 2s (2024)	July 2024	https://doi.org/10.52783/j	-	SCOPUS

	Automation in the power plant Industry.						es.1690		
5	Enhancing Security in IoT Networks Through RDAD for Attack Detection in RPL-Enabled Environments	SN Computer Science	Dr. K. Sridhar	2661-8907	Volume 5, article number 864	September 2024	https://doi.org/10.1007/s42979-024-03200-w	-	SCOPUS
6	A Novel Internet of Things Assisted Accident Prevention System using Logical Sensors and Tracking Strategy	IEEE Xplore	Dr. K. Sridhar	2473-2001		October 2024	https://doi.org/10.1109/ICPECTS62210.2024.10780188		SCIE
7	Integration of nanomaterials in FDM for enhanced surface properties: Optimized manufacturing approaches	Applied Chemical Engineering	Dr. Raviteja Surakasi	25782010	Volume 7 Issue 3	October 2024	https://doi.org/10.59429/ace.v7i3.5534	-	SCOPUS
8	Energy-efficient FDM printing of sustainable polymers: Optimization strategies for material and process performance	Applied Chemical Engineering	Dr. Raviteja Surakasi	25782010	Volume 7 Issue 3	October 2024	https://doi.org/10.59429/ace.v7i3.5537	-	SCOPUS

9	The impact of nano additives in corn oil biodiesel used in combustion engines on the environment: an experimental approach	Journal of Engineering and Technology for Industrial Applications	Dr. Raviteja Surakasi	2447-0228	Volume 10 No 49	October 2024	https://doi.org/10.5935/jetia.v10i49.1298	-	SCOPUS
10	Environmental Effects of Biodiesel Engines fueled by waste cooking oil and metal nano additives	Journal of Engineering and Technology for Industrial Applications	Mr. K. Ch. Sekhar ,Mr. Balaji Mugada, Mrs. Anusha Kalluri and Dr. Raviteja Surakasi	2447-0228	Volume 10 No 48	August 2024	https://doi.org/10.5935/jetia.v10i48.1172	-	SCOPUS
11	The Mechanical, Thermal, and Electrical Properties of Nanographene-Aluminum Metal Matrix Composites are Exploited to Create Shielding Materials.	Journal of Propulsion Technology	Dr. M.V.Krishna Mohan	1001-4055	Vol. 45 No. 04	October 2024	-	-	SCOPUS
12	Optimization of combustion characteristics on a diesel engine fueled by Mahua biodiesel with dispersion of graphene oxide and zinc oxide nanoparticles as additives using	Transactions on Energy Systems and Engineering Applications	Mr. P Srinivas reddy, Dr. M.V. Krishna Mohan and Mr. M. Balaji	2745-0120	Vol. 5 No. 02	July 2024		-	SCOPUS

	design of experiment								
13	Mechanical and microstructural characteristics of Al-Li2099-graphene MMCs for aerospace applications	Advances in Materials and Processing Technologies	Mr. Ch. Polayya	2374-068X		November 2024	https://doi.org/10.1080/23740068X.2024.2424014	-	SCOPUS
14	Surface metamorphosis techniques for sustainable polymers: Optimizing material performance and environmental impact	Applied Chemical Engineering	Dr. Raviteja Surakasi	2578-2010	Vol 7, No 3	November 2024	https://doi.org/10.59429/ace.v7i3.5528	-	SCOPUS
15	Response Surface Methodology Investigation of the Viscosity of Propylene Glycol (100)/Graphene Nanofluid to Determine the Optimal Conditions	Engineering Reports	Dr. Raviteja Surakasi	2577-8196		November 2024	https://doi.org/10.1002/eng2.13032	1.8	SCIE
16	Enhanced tribological performance of transesterified corn oil biodiesel blends with CuO and TiO 2 nanoparticles: experimental analysis on wear and friction reduction using	International Journal of Chemical Reactor Engineering	Dr. Raviteja Surakasi	1542-6580		December 2024		1.2	SCIE

	environment-friendly lubricants								
17	Synthesis and characterization of high performance sustainable polymers for FDM applications	Applied Chemical Engineering	Dr. P. Thimothy	2578-2010		December 2024	https://doi.org/10.59429/ace.v7i4.5539	SCOPUS	-
18	Minimizing environmental footprint in FDM additive manufacturing: Analyzing process efficiency through advanced optimizationTechniques	Applied Chemical Engineering	Dr. P. Thimothy	2578-2010		December 2024	https://doi.org/10.59429/ace.v7i4.5533	SCOPUS	-