



## RESEARCH PUBLICATIONS FOR THE ACADEMIC YEAR: 2023-24

### 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/UGC
1	Fabrication and optimization of acoustic properties of natural fiber reinforced composites	International Journal on Interactive Design and Manufacturing (IJIDeM)	Dr. Satish Pujari	1955-2505	Volume 18	August 2023	<a href="https://doi.org/10.1007/s12008-023-01496-1">https://doi.org/10.1007/s12008-023-01496-1</a>	2.1	SCIE
2	Artificial Neural Network Performance Modeling and Evaluation of Additive Manufacturing 3D Printed Parts	Engineering, Technology & Applied Science Research	Dr. Satish Pujari	1792-8036	Vol. 13 No. 5	October 2023		-	SCOPUS
3	Advancements in Additive Manufacturing Innovations in Direct Ink Writing Materials and Their Transformative	Journal of Engineering Science and Technology	Dr. Satish Pujari	1823-4690		February & 2024		-	SCOPUS



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	Practical Applications								
4	Python programming predictions of thermal behavioral aspects of Orange peel and coconut –coir reinforced epoxy composites	Sharif University of Technology ScientiaIranica	Dr.Satish Pujari, Daniel Silas Kumar Mandruma ka	<u>1026-3098</u>	31(8)	May 2024	<a href="https://doi.org/10.24200/sci.2023.60206.665">https://doi.org/10.24200/sci.2023.60206.665</a>	-	-
5	Revolution Of Industry 5.0: The Human Focused Solutions For Sustainable Growth And Development	European Chemical Bulletin	Dr. K. Sridhar	2063-5346	12(4)	December 2023	<a href="https://doi.org/10.48047/e cb/2023.12.si4.1605">https://doi.org/10.48047/e cb/2023.12.si4.1605</a>	-	-
6	Decoding Digitalization Role In Higher Education- Opportunities And Challenges In Indian Institutions	Migration Letters	Dr. K. Sridhar	1741-8984		February 2024		-	-



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7	Design of automated braking system of vehicle using PLC ladder and simulated with WPL software	AIP Publishing	Dr. P. Timothy	0094-243X	Volume 2794, Issue 1	October 2023	<a href="https://doi.org/10.1063/5.0166076">https://doi.org/10.1063/5.0166076</a>	SCIE	3.5
8	Assessment on Effect of Thermal, Mechanical and Water Absorption Properties of Hybrid Hemp/Pine Apple/Palm Fiber Reinforced Epoxy Composite	Research Square	Dr. P. Timothy	NA		October 2023	<a href="https://doi.org/10.21203/rs.3.rs-3062539/v1">https://doi.org/10.21203/rs.3.rs-3062539/v1</a>	-	-
9	Graphene Nanopowder and Propylene Glycol Solutions, Thermal and Physical Properties	Arabian Journal for Science and Engineering	Dr. P. Timothy Dr. Raviteja Surakasi Gedela Chandra Sekhar	2193-567X	48:16039-16050	June 2023	<a href="https://doi.org/10.1007/s13369-023-07952-0">https://doi.org/10.1007/s13369-023-07952-0</a>	-	SCOPUS



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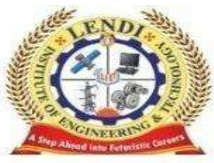
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10	The Combustion and Emission Characteristics of Corn Oil Biodiesel with Titanium Oxide (TiO <sub>2</sub> ) Nano-additive	Journal of Environmental Nanotechnology	Dr. Raviteja Surakasi, KCh.Sekhar, B.Ushaswini	2279-0748	Volume 13, No 1	Mar 2024	<a href="https://doi.org/10.13074/jent.2024.03.241512">https://doi.org/10.13074/jent.2024.03.241512</a>	-	SCOPUS
11	Tanning Wastewater Sterilization in the Dark and Sunlight Using Psidium guajava Leaf-Derived Copper Oxide Nanoparticles and Their Characteristics	ACS Omega	Dr. Raviteja Surakasi	0002-7863	Vol 8/Issue 42	October 2023		-	SCOPUS
12	Investigation on the influence of the MWCNT Al <sub>2</sub> O <sub>3</sub> and CuOnano fluid in the ETSC	Thermal Science	Dr. Raviteja Surakasi	0354-9836	Vol 27 issue 6	November 2023	<a href="https://doi.org/10.2298/TSCI220919246K">https://doi.org/10.2298/TSCI220919246K</a>	-	SCOPUS



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13	Examining the Effects of Load Variation on the Tribological Behavior of a Blended Lubricant Made from Corn Oil Biodiese	International journal of Vehicle Structures and Systems	Dr. Raviteja Surakasi, Manyala Gangadhar Rao, Ravi Ganivada, Ravikanth Yajjala	0975-3060	Vol. 15 No. 7	December 2023	<a href="https://doi.org/10.4273/ijvss.15.7.15">https://doi.org/10.4273/ijvss.15.7.15</a>	-	SCOPUS
14	Corn Oil Biodiesel Dispersed with Nanopowder as Cutting Fluid in Metal Cutting Process on CNC Milling Machine.	International journal of Vehicle Structures and Systems	Ravi Ganivada, Gangadhar Manyala, Dr. Raviteja Surakasi	0975-3060		December 2023		-	SCOPUS
15	Performance, Combustion, and Emission analysis of diesel engine fuelled with pyrolysis oil blends and n-propyl alcohol-RSM optimization and ML modelling	Journal of Cleaner Production	Dr. Raviteja Surakasi	0959-6526		January 2024		11.072	SCIE



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16	Effectiveness of natural dye adsorption on ILSS and optical properties of bio synthesised TiO <sub>2</sub> nano particles and reinforced with flax seed fiber/epoxy-based hybrid composites	Discover Applied Sciences	Dr. Raviteja Surakasi	3004-9261	Volume 6, article number 125	March 2024	<a href="https://doi.org/10.1007/s42452-024-05758-9">https://doi.org/10.1007/s42452-024-05758-9</a>	-	SCOPUS
17	Nano-dispersed Corn Oil Biodiesel: An Analysis of its Potential for usage in Hybrid Electric Vehicles	International journal of Vehicle Structures and Systems	Dr Raviteja Surakasi	0975-3060		March 2024	<a href="https://doi.org/10.4273/ijvss.16.1.17">https://doi.org/10.4273/ijvss.16.1.17</a>	-	SCOPUS
18	Evaluation of Dielectric Properties of Peanut Oil Biodiesel Mixed with Nano-additives	Journal of Environmental Nanotechnology	Dr. Raviteja Surakasi	2279-0748	Volume 13, No 1	March 2024	<a href="https://doi.org/10.13074/jent.2024.03.241514">https://doi.org/10.13074/jent.2024.03.241514</a>	-	SCOPUS
19	Emerging trends and global challenges to predict drop in thermal	Journal of Thermal Engineering	Dr. Raviteja Surakasi	2148-7847	Volume: 10 Issue: 3	May 2024		-	ESCI



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	performance of WTG gearbox								
20	Deep NNet 15 for the prediction of biological waste to energy conversion and nutrient level detection in treated sewage water	Process Safety and Environmental Protection	Dr. Raviteja Surakasi	0957-5820	Volume 189	June 24	<a href="https://doi.org/10.1016/j.psep.2024.06.119">https://doi.org/10.1016/j.psep.2024.06.119</a>	9.29	SCIE
21	Evaluation of electrical properties of graphene nano powder dispersed propylene glycol-water solutions	Engineering Research Express	Dr Raviteja Surakasi, Gedela Chandra Sekhar	2631-8695	5(3)	July 2023	<a href="https://doi.org/10.1088/2631-8695/ace58e">https://doi.org/10.1088/2631-8695/ace58e</a>		ESCI



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22	Characterization and Evaluation of Electrical Properties of Corn Oil Biodiesel mixed with Nano Additive	International Journal of Renewable Energy Research	Dr Raviteja Surakasi	1309-0127		July 2023		-	ESCI
23	Explore the elimination of toxic dye using Bio-Synthesized cerium oxide nanoparticles derived from Morindacitrifolia leaf extracts	Surfaces and Interfaces	Dr. Raviteja Surakasi	2468-0230	Volume 41	October 2023	<a href="https://doi.org/10.1016/j.surfin.2023.103151">https://doi.org/10.1016/j.surfin.2023.103151</a>	6.60	SCIE
24	Predicting combustion, performance, and emission characteristics of a compression ignition engine utilising coconut oil methyl ester and MoO <sub>3</sub> nanoparticles	International Journal of Ambient Energy	P.Srinivasa Reddy,M. V. Krishna Mohanan,	2162-8246		May 2024		-	ESCI





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25	Mechanical characterization of aluminum-boron carbide composites	Materials Today Proceedings	R. Ramakrishna, D. Srinivasa Rao	2214-7853		July 2023	<a href="https://doi.org/10.1080/01430750.2024.2353863">https://doi.org/10.1080/01430750.2024.2353863</a>	-	SCOPUS
26	Improving the properties of aluminum-lithium composites in aerospace applications	Engineering Research Express	Ch..Polayya	2631-8695	Volume 6, Number 2	May 2024		-	ESCI
27	Dynamic Mechanical And Thermogravimetric Analysis Of Natural Fiber Composites Reinforced With Montmorillonite Nano Clay Particles As Fillers At Different Orientations	Rasayan Journal of Chemistry	R Jagadeesh Kumar Pala Srinivasa Reddy Dr MV Krishna Mohan r, Roopa.S	0974-1496		December 2023.	<a href="https://doi.org/10.1088/2631-8695/ad3a37">https://doi.org/10.1088/2631-8695/ad3a37</a>	-	SCIE
28	Suction Effect On Porous Shrinking	Journal of Porous Media	Manyala Gangadhar Rao,	1091-028X	Volume 27	January 2024	<a href="https://doi.org/10.1088/2631-8695/ad3a37">https://doi.org/10.1088/2631-8695/ad3a37</a>	-	SCIE



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	Cylinder In MhdCasson Fluid With The Impact Of Heat Generation And Radiation						<a href="https://doi.org/10.1080/024050282">615/JP orMedia.2024050282</a>		
29	Impact of titanium and silicon metal oxide nanoparticles on surface coatings for marine vehicles to mitigate biofouling	Particulate Science And Technology	M. V. Krishna Mohan ,P. SrinivasaR eddy	0272-6351.	Volume 42, 2024 - Issue 6	December 2023	<a href="https://doi.org/10.1080/02726351.2023.2295978">https://doi.org/10.1080/02726351.2023.2295978</a>	2.56	SCIE
30	Copper Slag-Sustainable Mold Material for Non-ferrous Foundries	International Journal of Metal Casting	Dr. Y. Ravi Kanth	1939-5981	Volume 18	October 2023	<a href="https://doi.org/10.1007/s40962-023-01166-8">https://doi.org/10.1007/s40962-023-01166-8</a>	2.6	SCIE
31	Optimal Component Sizing and Performance of Fuel Cell - Battery Powered Vehicle over	Energy Conversion and Management	Dr. Venkata Koteswara Rao K	0196-8904	Volume 300	January 2024	<a href="https://doi.org/10.1016/j.enconman.2024">https://doi.org/10.1016/j.enconman.2024</a>	-	SCIE



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	World Harmonized and New European Driving Cycles						<a href="#">3.117992</a>		