



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

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L.B. Reddy Nagar, Mylavaram, NTR District, Andhra Pradesh - 521230



Department of Mechanical Engineering Publications details in the A.Y 2024-25

S.No.	Names of all the Authors (Bold all our faculty)	Title of the Paper	Name of the Journal	Published Month & Year	E-ISSN/ Print ISSN	Article Link in Elsevier/Scopus/ other Database	SCI/SCIE /ESCI/ Scopus/ Other
1.	Jayashri N. Nair T. Nagadurga , V. Dhana Raju , Harish Venu, Sameer Algburi, Sarfaraz Kamangar, Amir Ibrahim Ali Arabi, Abdul Razak, Narasimha Marakala	Impact of fuel additives on the performance, combustion and emission characteristics of diesel engine charged by waste plastic bio-diesel	Case Studies in Thermal Engineering	Jan 2025	2214-157X	https://doi.org/10.1016/j.csite.2025.105755	SCIE
2.	Harish Venu, Manzoore Elahi M Soudagar, TiongSiehKiong, NM Razali, Hua-Rong Wei, Armin Rajabi, V Dhana Raju , TM Yunus Khan, NaifAlmakayeel, ErdemCuce, HuseyinSeker	Nanotechnology and LSTM machine learning algorithms in advanced fuel spray dynamics in CI engines with different bowl geometries	Scientific Reports	Jan 2025	2045-2322	https://doi.org/10.1038/s41598-024-83211-y	SCIE
3.	Jayashri N Nair, V. Dhana Raju T. Nagadurga	Solar Ddryers for Food Preservation: An In-Depth Review of Design, Fabrication and Barriers	Food Engineering Reviews	Nov 2024	1866-7929 1866-7910	https://doi.org/10.1007/s12393-024-09389-z	SCIE



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4.	Dhanunjay Kumar Ammisetti , Bharat Kumar Chigilipalli, Baburao Gaddala, Ravi Kumar Kottala, Radhamanohar Aepuru, T. Srinivasa Rao, Seepana Praveen kumar, Ravinder Kumar	Experimental Investigation and Machine Learning Modeling of Tribological Characteristics of AZ31/B4C/GNPs Hybrid Composites	Crystals	Nov 2024	2073-4352	https://doi.org/10.3390/cryst14121007	SCIE
5.	C.Balakrishna Moorthy, K. Dilip kumar , R. Vijaya kumar, P. Madhu	Enhancing thermal performance of solar air heater using graphene nano coatings: A comparative study with and without baffles	Thermal Science and Engineering Progress	April 2025	2451-9049	https://doi.org/10.1016/j.tsep.2025.103498	SCIE
6.	T. Nagadurga, V. Dhana Raju , Abdulwasa Bakr Barnawi, Javed Khan Bhutto, Abdul Razak, Anteneh WogassoWodajo	Global MPPT optimization for partially shaded photovoltaic systems	Scientific Reports	March 2025	2045-2322	https://doi.org/10.1038/s41598-025-89694-7	SCIE
7.	Harish Venu V, Dhana Raju, Jayashri N. Nair, Sameer Algburi, Ali E. Anqi, Ali A. Rajhi, Mohammed Kareemullah	Exergy and energy-based sustainability evaluation of diesel-biodiesel-ethanol blends with emission forecasting using advanced machine learning models	Case Studies in Thermal Engineering	June 2025	2214-157X	https://doi.org/10.1016/j.csite.2025.106516	SCIE



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8.	Murahari Kolli , K. Satyanarayana, Mechiri Sandeep Kumar, A. Varun, Solovev S. A., Oleg Igorevich Rozhdestvenskiy Anil Kumar Saxena	Experimental investigation on agriculture waste residue reinforcement in Al 7075 alloy through rotary stir casting	Cogent Engineering	Sep 2024	2331- 1916	https://doi.org/10.1080/23311916.2024.2410307	ESCI
9.	Ravi Prakash Babu Kocharla, Raghu Kumar Bandlamudi, Abdul Ahad Mirza, Murahari Kolli , Ragavanantham Shanmugam, Muralimohan Cheepu	Investigation on the Mechanical and Thermal Properties of Jute/Carbon Fiber Hybrid Composites with the Inclusion of Crab Shell Powder	Journal of Composites Science	Sep 2024	2504- 477X	https://doi.org/10.3390/jcs8080296	ESCI
10.	KPV Krishna Varma, NS Naveen, PS Kishore, Satish Pujari, Krishna Jogi, V Dhana Raju	Optimizing the thermal performance of a double-pipe heat exchanger using twisted tapes with variable cuts and Fe3O4 nanofluid	Journal of Thermal Engineering	Sep 2024	2148- 7847	DOI: 10.14744/thermal.000086 0	ESCI
11.	K. Lalith Narayan, G. V. Punna Rao, V. Sankararao , and S. B. R. Devireddy	Experimental and numerical investigations on elastic and thermal properties of banana- jute fiber-reinforced hybrid composites	International Journal of Computational Materials Science and Engineering	Aug 2024	2047- 6841 / 2047- 685X	https://doi.org/10.1142/S204768412450026X	ESCI
12.	Lakshmi Kanth Ch, P. Ravindra Kumar , Bypaneni Krishna Chaitanya, N. Venkata Sairam Kumar, Naga Sai Rama Krishna Thati, N.	Prediction of Mechanical and Tensile Properties of Self- Compacting Concrete Incorporating Fly Ash and Waste Copper Slag by Artificial Neural Network-ANN	Annales de Chimie - Science des Matériaux	Oct 2024	0151- 9107 / 1958- 5934	https://doi.org/10.18280/acsm.480506	ESCI



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	Satya Vijay Kumar, B. Ravi, Annamdasu Nagesawara Rao						
13.	Seelam Pichi Reddy , Yellapragada Naga Venkata Sairam, Mohammad Hasheer ShaikPalavalasa Rohini Kumar, Tamminana Yamini, Medikonduru Maithili Saisree, Nethala Raju	Preparation and Experimental Investigation of Lanthanum Hexa-Aluminate Calcinated Powders	Annales de Chimie - Science des Matériaux	Feb 2025	0151-9107 / 1958-5934	https://doi.org/10.18280/acsm.490109	ESCI
14.	Aravind Arasavilli, M Kishore Babu, A Nageswara Rao	Evaluating factors influencing students' decisions to pursue higher education abroad: a structural equation modelling study	International Journal of System Assurance Engineering and Management	Aug 2024	0976-4348/ 0975-6809	//doi.org/10.1007/s13198-024-02465-x	ESCI
15.	M. Bala Chennaiah, G. Dilli Babu, K. Dilip Kumar , Reddy Sreenivasulu, Tarunika Sharma, A. Somaiah, R. Meenakshi Reddy, Nishant Kumar	Effect of wear and frictional force on Al6063-T6 with magnesium and zinc oxide nanoparticles	Innovation and Emerging Technologies	May 2025	2737-5994 / 2810-9007	10.1142/S2737599424400164	ESCI



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16.	Ravi Prakash Babu Kocharla, Siva Sankara Babu Ch Murahari Kolli , Satyanarayana Kosaraju, Oleg Igorevich Rozhdestvenskiy, Ankita Joshi, Muntather Almusawi	Evaluation of mechanical and thermal characteristics of e-glass/epoxy composites with the inclusion of graphene nanoparticles	Cogent Engineering	Nov 2024	2331-1916	https://doi.org/10.1080/23311916.2024.2419429	ESCI
17.	K. Yamini, P. S. Kishore, V. Dhana raj	Effect of diethyl ether and isobutanol as fuel additives on the diesel engine attributes fueled with subabul seed biodiesel	Journal of Thermal Engineering	Jan 2025	2148-7847	10.14744/thermal.0000914	ESCI
18.	Murahari Kolli , Chendrasekhar Sunnapu, Nageswara Rao Medikondur	Multi-response optimization of friction stir welding process parameter of AA 5083 with Taguchi-VIKOR approach	Journal of Engineering and Applied Science	Jan 2025	2536-9512/ 1110-1903	https://doi.org/10.1186/s44147-024-00572-x	Scopus
19.	R Kiran Kumar Reddy, M B S Sreekara Reddy , Vinod S Bhagat	Vibration and acoustic characteristics of aluminium-silicon carbide metal matrix composite plate under thermal environment	Noise & Vibration Worldwide	July 2024	0957-4565	https://journals.sagepub.com/doi/abs/10.1177/09574565241270248	Scopus
20.	Harikrishna Chirala, Varun Chandra C, Murahari Kolli , Srinivasaraju Pericherla, N Malleswararao Battina, Srinivasarao Gajula	Some aspects of friction and anisotropic ratios on the work hardening behaviour in the upsetting tests	Proceedings Engineering Sciences	Dec 2024	2620-2832/ 683-4111	doi:10.24874/PES.SI.24.03.020	Scopus



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21.	P. Venkataramana, P Vijaya Kumar B. Balakrishna	Numerical Investigation of a Pulsating Heat Pipe Using Different Nanofluids for Electronic Cooling	Journal of The Institution of Engineers (India): Series C	Dec 2024	2250-0545	https://link.springer.com/article/10.1007/s40032-024-01133-0	Scopus
22.	B Nikhil Chakravarthy, P Vijay Kumar, V Dhana Raju, K Appa Rao, Ramalingam Senthil	Evaluation of performance, emissions and combustion attributes of diesel engines powered by Palmyra biodiesel blends with distinct injection pressures and EGR rates	International Journal of Ambient Energy	Oct 2024	0143-0750	https://doi.org/10.1080/01430750.2024.2388167	Scopus
23.	Trivikama Raju Jakeer Husan S Murahari Kolli	An effective investigation of chatter predication system on Al 6061 alloy in an end milling process	Journal of Engineering and Applied Science	July 2024	2536-9512/ 1110-1903	https://doi.org/10.1186/s44147-024-00489-5	Scopus
24.	Satish Kumar, A. N. Basavaraju and V. Dhana Raju	Effect of Injection Timing and EGR on the Diverse Attributes of Diesel Engine Powered with Juliflora Methyl Ester Blend	Journal of Environmental Research Article Nanotechnology	Jan 2025	2279-0748/ 2319-5541	https://doi.org/10.13074/jent.2024.12.2441048	Scopus
25.	Murahari Kolli, Siva Sankara Babu Ch Sankararao Vinjavarapu, K.Satyanarayana, K. Kalpana	Experimental Analysis on Turning of Super Duplex UNS 32750 Steel Using Minimum Quantity Lubrication Process	E3S Web of Conferences	July 2024	2267-1242	https://doi.org/10.1051/e3sconf/202455201076	Scopus Proc.
26.	Dakshina Murthy Inturi, Pinnam Lovaraju, Ravindra Kumar Pasupuleti	Effect of Truncation and Axial Location of Plug Geometry on the Performance of Aerospike Nozzle	Proceedings of Fluid Mechanics and Fluid Power	May 2025	978-981-97-6782-3	https://doi.org/10.1007/978-981-97-6783-0_19	Scopus Proc.



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27.	Mallapuram Bala Chennaiah, G. Dilli Babu, K. Dilip Kumar , P. Nanda Kumar, and M. Sivarama Krishnaiah	Pre-detection of Fire Accidents in Locomotive with Microcontroller	Recent Advances in Mechanical Engineering	2024	978-981-97-2248-8	https://doi.org/10.1007/978-981-97-2249-5_27	Scopus Proc.
28.	Dhivakar Poosapadi, Arigela Sri Harsha, Sudheer Kumar Battula , V. Choudri, Annie T A, S. Gayathri Priya	Collision-Aware Autonomous Vehicle Motion Planning using Spiking Convolutional Neural Networks and Parrot Optimization Algorithm	Proceedings of the International Conference on Intelligent Computing and Control Systems (ICICCS-2025)	May 2025	979-8-3315-1208-8	10.1109/ICICCS65191.2025.10985079	Scopus Proc.
29.	Jayashri Narayanan Nair, Vallapudi Dhana Raju , Devunuri Suresh, Puntikura Shashi Kumar, Siddhant Kulkarni, Uday Kumar Reddy, Goriparthi Ajay	Evaluation of the race car chassis's modal, dynamic, and static analyses using various materials for optimization	AIP Conference Proceedings	May 2025	0094-243X	https://doi.org/10.1063/5.0269604	Scopus Proc.
30.	P.Sreenivas, Divakar Harekal, T.K.S.Rathish Babu, Sudheer Kumar Battula , J.Ramya	Innovations in Device to Device Communication for Mechanical Tool Optimisation	Information Resources Management Journal	April 2025	1040-1628	10.4018/979-8-3693-7974-5.ch022	Scopus Proc.



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31.	P.Selvakumar, Siva Sankar Babu Chinka , M.Prabakaran, Santosh Kumar Nathsharma, J. Suhashini, Manjunath	Green and Sustainable Manufacturing of Advanced Materials: Progress and Prospects	IGI Global Scientific Publishing	April 2025		10.4018/979-8-3693- 7974-5.ch001	
32.	Karthik , P.Dinkar, Nikita Mishra, Myasar Mundher Adnan, Amruta A Mahajan, Jonnala Subba Reddy	Smart Water System Framework Utilizing Artificial Intelligence: Improving Water Efficiency and Crop Yield Through Data-Driven Decision- Making	First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	May 2025	979833 151857 8	10.1109/CE2CT64011.2 025.10939513	Scopus Proc.
33.	S. Mohamed Rabeek, Ningaraj Belagalla, Kanchan Khare, Shirish Kumar Kodadi, Jonnala Subba Reddy , Mohsina Bano Shaik	Computational Approaches to Molecular Dynamics Simulation for Drug Design and Discovery	First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	May 2025	97983 31518 578	10.1109/CE2CT64011.2 025.10940022	Scopus Proc.



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34.	Santhosh Goudm, Hiral D. Trivedi, Javedkhan Mohammad Firozkhan Pathan, J Subba Reddy , Renuka Viswanathan, Subhasmita Pattnaik	The Role of Mosquito Behavior in the Transmission of Vector-Borne Diseases	African Journal of Biomedical Research	Dec 2024	1119-5096	https://doi.org/10.53555/AJBR.v27i4S.6041	Open Access
35.	Chinmaya Choudhury, Debasmita Biswal Deepa V.H. Amruta Pasarkar J Subba Reddy Sagar Salunkhe	Evaluating the Effectiveness of Mobile Health (mHealth) Interventions in Managing Type 2 Diabetes	African Journal of Biomedical Research	Dec 2024	1119-5096	https://doi.org/10.53555/AJBR.v27i3.5654	Open Access
36.	G. Ramya, K. Dilip Kumar , S. Arunprasad, N. P. Subiramaniam, B. Senthil Kumar, Raviteja Surakasi, M. Rajendiran, K. Rajchandar	Thermal performance enhancement of a flat plate collector using SiO ₂ -CuO/water hybrid nanofluids: An exergetic and economic perspective	AIP Conference Proceedings	June 2025	0094-243X	https://doi.org/10.1063/5.0265084	Open Access

Publication Type	SCI/SCIE	ESCI	Scopus	Scopus Proceedings	Other/open	Total
Number of publications	7	10	7	9	3	36

R&D coordinator

HoD



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