



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(Autonomous)

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Accredited by NAAC, NBA Tier-I for CSE, IT, ECE, EEE & ME

DEPARTMENT OF MECHANICAL ENGINEERING

JOURNAL PUBLICATIONS for the A.Y: 2022-23

SCI / SCIE Journals - 06

1. P.Venkataramana, **P.Vijaya Kumar**, B.Balakrishna, Experimental Investigation of Aluminum oxide Nanofluid on Closed loop Pulsating Heat Pipe Performance, Journal of Applied Fluid Mechanics, July 2022. ISSN: 1947-1955, https://www.jafmonline.net/article_2116.html.
2. **Vallapudi Dhana Raju**, Jayashri N Nair, Harish Venu, Lingesan Subramani, Manzoore Elahi M. Soudagar, MA Mujtaba, T.M. Yunus Khan, Khadiga Ahmed, Ismail, Ashraf Elfasakhany, Abdulfatah Abdu Yusuf, Badr A Mohamed & Islam M. R. Fattah, Combined assessment of injection timing and exhaust gas recirculation strategy on the performance, emission and combustion characteristics of algae biodiesel powered diesel engine, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Sep 2022, ISSN: 1556-7036, <https://doi.org/10.1080/15567036.2022.2123068>.
3. **Murahari Kolli**, Satyanarayana Kosaraju , Devaraju Aruri, & Medikondur Nageswararao, Influence of Rotary Assisted Electrical Discharge Machining of 17-4PH Stainless Steel Using Taguchi Technique, Indian Journal of Engineering & Materials Sciences, Vol. 29, pp. 799-806, January 2023, ISSN: 1955-2513 DOI: 10.56042/ijems.v29i6.70267.
4. P. Karthikeyan, K. Kalaiselvi, M. Pachamuthu, **Kanulla Karthik**, A. Johnson Santhosh, An Optimisation Method of Construction for Warping Copper Plates and Engines Using Complete Block Designs with Some Special Types of Graphs, Advances in Materials Science and Engineering, Jan 2023, ISSN: 1687-8434, Special Issue : Article ID 9002743, [Doi.org/10.1155/2023/9002743](https://doi.org/10.1155/2023/9002743).
5. **S. Rami Reddy**, Saroj Kumar Sarangi, Hybrid controller for battery operation in photovoltaic assisted EV charging station, International Journal of Electronics, DOI: 10.1080/00207217.2023.2173806, Feb, 2023
6. C.Sumaltha, **P.V. Chandra sekhar Rao**, V.V.Subba Rao, Synthesis of nickel coated graphene and analysis of the efficacy of its reinforcement on the hyper eutectic AlSi alloys that are grain modified and refined, Diamond & Related material, 10.1016/j.diamond.2022.109519, ISSN: 0925-9635, Nov 2022.

ESCI Journals - 06

1. Harish Venu, Prabhu Appavu, **Dhana Raju V**, Influence of Zr₂O₃ nano additives on particle size diameter (PSD), mass fraction burnt (MFB) and engine characteristics of Jatropa biodiesel fuelled DI diesel engine, Australian Journal of Mechanical Engineering, July 2022, ISSN 1448-4846, <https://doi.org/10.1080/14484846.2022.2100042>,
2. Ravi prakash babu Kocharla, Raghu Bandlamudi, Devarau Aruri, **Murahari kolli**, Satyanarayana Kosaraju, Finite Element modeling aspects in the factre assement of a low pressure steam turbine blade, International ournal of Intractive Design and Manufacturing, Oct 2022, ISSN: 1955-2513, <https://doi.org/10.1007/s12008-022-01045-2>.
3. Kode Srividya, **Seelam Pichi Reddy**, Kurra Hari Prasad, Naga Sai Rama Krishna Thati, Kilari Snehita, Unnam Sai Pranay, Naga Venkata Sairam Yellapragada, Optimization of Process Parameters for Preparation of Lanthanum Hexa-Aluminate Powders Using Combinatorial Approach of Taguchi-GRA and ACO Methods, Annales de Chimie - Science des Matériaux, Vol. 47, No. 1, February, 2023, pp. 43-50. ISSN: 0151-9107.
4. Srinivasa Reddy Kunduru¹, Hanumantha Rao Yarrapathruni Venkata, **Dhanaraju Vallapudi**, Narmatha Deenadayalan, Arul Raj Kumaravel, prediction of recital characteristics of a ci diesel engine operated by bio-fuel extracts from cotton seed oil, linseed oil and mahua seed oil using ann method, Journal of Thermal Engineering, Vol. 9, No. 2, 1-15, March, 2023, ISSN: 2148-7847.
5. Naga Venkata Sai Ram Yellapragada, Venkata Sai Kumar Madala, Sameer Kumar Devarakonda, Raqheeb Sadiq Mahaboob Ali Shaik, **Nageswara Rao Annamdasu**, Kondala Rao Dasari, Hasheer Shaik Mohammad, Application of Taguchi – PCA/GRA Method to Optimize the Wear Behaviour of Polyester / Carbon Fibre Composites, Revue des Composites et des Matériaux Avancés-Journal of Composite and Advanced Materials, Vol. 33, No. 2, April, 2023, pp. 65-73, 1169-7954 / 1958-5799 (May 2023)
6. Mastan Rao Papabathina; **Siva Sankara Babu Chinka**; Nageswara Rao Putta; Murkonda Vijaya; Dhoria, Sneha, Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites, Annales de Chimie - Science des Matériaux, Vol. 47, No. 3, June, 2023, pp. 125-132. ISSN: 0151-9107.

Scopus Journals – 04

1. A Prabhu, V Harish, J Jayaprabakar, K Venkatesan, **V Dhana Raju**, Emission analysis in an EGR-equipped DI diesel engine fueled by butanol-diesel blends, Environmental Quality Management, Dec 2022, ISSN: 1520-6483.
2. Ravi Prakash Babu Kocharla, **Murahari Kolli**, Muralimohan Cheepu, Real-Time Detection of Faults in Rotating Blades Using Frequency Response Function Analysis, Applied Mechanics, March 2023, Vol 4 (1), 356-370, ISSN: 2673-3161.

3. Soundararajan S, E Srimathi, **Sudheer Kumar Battula**, R Malkiya Rasalin Prince, N Suresh, Neelam Rawat, V Jaiganesh, V Sharun, Optimizing wear of Al 6062 alloy using machine learning and tungsten carbide nanoparticles, European Chemical Bulletin, Vol. 12, Issue 6, March 2023, ISSN: 2063-5346.
4. K.Maheswari, Oluwadare Joshua OYEBODE, M. Priscilla, Vikas Maheshkar, **K. LAKSHMI PRASAD**, Ch. Venkata Krishna Reddy, Sandeep , Design of Green IoT for Sustainable Smart Cities and Eco-friendly Environment, European Chemical Bulletin, Vol. 12, Issue 4, March 2023, ISSN: 2063-5346.

Scopus Conf. Proceedings – 15

1. P. Venkataramana, **P. Vijaya Kumar**, B. Bala Krishna, Thermal and flow performance in a CLPHP with Al₂O₃/copper nanofluids: Application in microelectronics and power generation, Materials Today Processings, <https://doi.org/10.1016/j.matpr.2023.03.110>, March 2023, ISSN: 2214-7853.
2. A. V. R. Surya Prasad, N. R. Medikodu, **M. B. S. Sreekara Reddy** , Rakesh K., K. S. Raghuram, Tribhuvan Kishor Mishra, Task scheduling in cloud computing environment, AIP Conference Proceedings 2707, 020028 (May 2023).
3. A. V. R. Surya Prasad, N. R. Medikodu, **M. B. S. Sreekara Reddy**, K. Rakesh, A. Shanthi Swaroopini, Preetam Kumar Sahu, Mathematical model for vehicle scheduling, AIP Conference Proceedings 2707, 020021 (May 2023).
4. G Deepika Reddy, NR Medikodu, T Vijaya Kumar, **MBS Reddy**, P Harisha, M Murali Krishna, Soft computing technique for jobs scheduling, AIP Conference Proceedings 2707, 020030 (May 2023).
5. G Deepika Reddy, T Vijaya Kumar, NR Medikodu, **MBS Reddy**, K.harish Kumar,G.Vivek, Machine utilisation algorithms through numerical model, AIP Conference Proceedings 2707, 020029 (May 2023).
6. S. Narayana Padhi, M. Nageswara Rao, **M. Bala Satya Sreekara Reddy**, K. Rakesh, V. Savitri, D. Sandeep Kumar, Flexible manufacturing systems with industry 4.0, AIP Conference Proceedings 2707, 040008 (May 2023).
7. Gopichand Dirisenapu, Laxmanaraju salavaravu, **Murahari Kolli**, Rajyalakshmi Bandi, Ashish kumar sahu and Kosaraju Satyanarayana, Optimization of process variables on Electrical Discharge Machining of novel Al7010/B4C/BN hybrid metal matrix nanocomposite, E3S Web of Conferences 391, 01170, June 2023, ISSN: 2267-1242.
8. Laxmanaraju salavaravu, Gopichand Dirisenapu, Lingaraju Dumpala, **Murahari Kolli**, Rajyalakshmi Bandi and Kosaraju Satyanarayana, Effects Of Submerged Friction Stir Welding On Mechanical Properties Of AA6061 In Seawater, E3S Web of Conferences 391, 01169 (June 2023), ISSN: 2267-1242.
9. **Mallikarjuna Rao Dandu**, **K. Sai Babu**, Nelakuditi Naresh Babu, **A. Dhanunjay Kumar**, **K. Venkateswara Reddy**, **B. Sai Rama Krishna** and **V. Dhana Raju**, Experimental Investigation on Water Cooler Test Rig With And Without Diffusers, E3S Web of Conferences 391, 01101 (June 2023), ISSN: 2267-1242.

10. **Vinjavarapu Sankararao**, P. Nageswara Rao, Siva Sankara Babu Ch., Medikonda Nageswararao and Kosaraju Satyanarayana, Enactment of Fiber Reinforced Hybrid Epoxy Composite for Passenger Car Bumper Beam, E3S Web of Conferences 391, 01171 (June 2023), ISSN: 2267-1242.
11. T Srinivasa Rao, **K Dilip Kumar**, Sk Abdul Saleem, N Kishan, Ch Raghavendra, M Avinash, Effect of Heat Transfer Performance of Shell and Tube Heat Exchanger Equipped With VCR System Using Different Baffle Angles and Operated With Different Graphene Oxide Nanoparticle Shapes, AIP Conference Proceedings 2810, 120005 (May2023). ISSN: 0094-243X
12. M.Chandra Sekhara Reddy, G.Rajesh, G.Anbuechezhiyan, J.Anichai, **Siva Sankara Babu**, B.Nagaraju Goud, Synthesis and characterization of silicon dioxide reinforced AZ91D magnesium composites, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2023.05.626> , June 2023. ISSN: 2214-7853
13. **Sai Babu, K.**, Sai Rama Krishna, B., **Djana Raju, V.**, Rama Krishna, N., Comparative Analysis for Performance Characteristics of a Compression Ignition Engine Running on Microalgae Methyl Ester and Diesel Blends with Base Engine and Coated Engine, Green Energy and Technology, May 2023, https://doi.org/10.1007/978-981-99-2279-6_19. ISSN: 1865-3529.
14. **Pratyush, A., Dhana Raju, V., Sai Babu, K., Oliva, M.**, Liquid Suction Heat Exchanger Used with Vapour Compression Refrigeration System by the Application of Twisted Strip Inserted Condenser, Green Energy and Technology, May 2023, https://doi.org/10.1007/978-981-99-2279-6_21, ISSN: 1865-3529.
15. Aruna Nayudu, Rama Krishna Yajjala, Vengal Rao Pachava, Meharaj Shaik, **Pratyush Aginipathi**, Vayu Nandana Kishore Pabbiseti, Detection of chromium using polymer coated etched FBG, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2023.04.412>, May 2023. ISSN: 2214-7853.

No. of Open Access Journals - 01

1. **Kamala Priya B**, Sravani V, **Dilip kumar K** Investigation of elliptical and square unit cell for the prediction of effective thermal conductivity, International journal for Innovative engineering and management research, Vol 11 Issue 09, Sep 2022, ISSN: 2456-5083.

Type of journal	SCI / SCIE	ESCI	Scopus	Conf. Proceedings	Open Access	Total
No. of publications	06	06	04	15	01	32