



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, Andhra Pradesh, INDIA.
Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.
Accredited by NAAC, NBA Tier-I for CSE, IT, ECE, EEE & ME and “CPE” status

DEPARTMENT OF MECHANICAL ENGINEERING

JOURNAL PUBLICATIONS for the A.Y: 2020-21

SCI Papers - 25

- 1. Parametric optimisation of Tribological Characteristics of Novel Al7010/B4C/BN Hybrid Metal Matrix Nanocomposites Using Taguchi Technique**, Gopichand Dirisenapu, Lingaraju Dumpala, Seelam Pichi Reddy, Australian Journal of Mechanical Engineering, (June 2021), 2204-2253 (Online), 1448-4846 (Print), 10.1080/14484846.2021.1938940.
- 2. Dry Sliding Tribological Behavior of Al7010/B4C/BN Hybrid Metal Matrix nano composites Prepared by Ultrasonic-Assisted Stir Casting**, Gopichand Dirisenapu, Lingaraju Dumpala & Seelam Pichi Reddy, Transactions of the Indian Institute of Metals, 74:149-158, (Nov 2020), 0975-1645 (Online) 0972-2815 (Print), 10.1007/s12666-020-02128-y.
- 3. Characterisation of zinc oxide nanoparticles–herbal synthesised coated with Ocimum tenuiflorum**, M. Bala Chennaiah, K. Dilip Kumar, B. Sudheer Kumar & Srinivasa Rao Tanneeru, Advances in Materials and Processing Technologies, (June 2021), 2374-0698 (Online), 2374-068X (Print), 10.1080/2374068X.2021.1934642
- 4. Influence of rock dust reinforcement on mechanical properties of Al composite using friction stir processing**, Murahari kolli , Sai Naresh Dasari ,Nithin Sai Potluri, A.V.S Ramprasad, Australian Journal of Mechanical Engineering, (Nov 2020), 2204-2253 (Online), 1448-4846 (Print), 10.1080/14484846.2020.1842299.
- 5. Multi-objective optimization of AAJM process parameters for cutting of B4C/Gr particles reinforced Al 7075 composites using RSM-TOPSIS approach**, Murahari Kolli, A.V.S Ram Prasad, Dasari Sai Naresh, SN Applied Sciences,3: 711, (June 2021), 2523-3971 (Online), 2523-3963 (Print), 10.1007/s42452-021-04699-x.
- 6. Enhancement in combustion, performance and Emission characteristics of a Diesel engine fueled with Ce-zno Nano particle additive added to soybean biodiesel blends**, FayazHussain, Manzoore Elahi M. Soudagar, Asif Afzal , M.A. Mujtaba, I.M. Rizwanul Fattah, Bharat Naik, Mohammed Huzaifa Mulla, Irfan Anjum Badruddin, T. M. Yunus Khan,

Vallapudi Dhana Raju, Rakhamaji S. Gavhane and S.M. Ashrafur Rahman, *Energies*, 13(17), 4578, (Sep 2020), 1996-1073 (Online)/ (Print), 10.3390/en13174578.

7. Effect of Sr@ZnO nanoparticles and Ricinus communis biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics, Manzoore Elahi M. Soudagar, M.A. Mujtaba, Mohammad Reza Safaei, Asif Afzal, Dhana Raju V, Waqar Ahmed, N.R. Banapurmath, Nazia Hossain, Shahid Bashir, Irfan Anjum Badruddin, Marjan Goodarzi, Kiran Shahapurkar, Syed Noeman Taqui, *Energy* 215, Part A, (Jan 2021), 119094, 0360-5442 (Online), 1873-6785 (Print), 10.1016/j.energy.2020.119094.

8. An experimental assessment of prospective oxygenated additives on the diverse characteristics of diesel engine powered with waste tamarind biodiesel, V. Dhana Raju, Harish Venu, Lingesan Subramani, P.S. Kishore, P.L. Prasanna, D. Vinay Kumar, *Energy*, 203, (July 2020), 117821, 0360-5442 (Online), 1873-6785 (Print), 10.1016/j.energy.2020.117821.

9. Effect of split fuel injection strategies on the diverse characteristics of CRDI diesel engine operated with tamarind biodiesel, katuri, bala Prasad, olive Meduri, Vallapudi, Dhanaraju, Arunakumari, Azmeera, Harish venu, Lingesan Subramani, Manzoore Elahi M Soudagar, *Energy, Sources, Part A: Recovery, Utilization, and Environment Effects*, (Dec 2020), 1556-7230 (online), 1556-7036, 10.1080/15567036.2020.1856973.

10. Influence of Al₂O₃ nano additives in ternary fuel (diesel-biodiesel-ethanol) blends operated in a single cylinder diesel engine: Performance, combustion and emission characteristics, Harish Venu, V. Dhana Raju, S. Lingesan and Manzoore Elahi M Soudagar, *Energy*, 215, 119091, (Jan 2021), 0360-5442 (Online), 1873-6785 (Print), 10.1016/j.energy.2020.119091.

11. Effect of alcoholic and nano-particles additives on tribological properties of diesel-palm-sesame biodiesel blends, MA Majtaba, Haeng Muk Cho, HH Masjuki, MA Kalam, M. Farroq, Manzoore Elahi M. Soudagar, M Gul, Waqar Ahmed, Asif Afzal, Shahid Bashir, V. Dhanaraju, HAseeb Yaqoob and A.Z. Syahir, *Energy Reports*, 2352-4847 (Print), (Dec 2020), 10.1016/j.egy.2020.12.009.

12. Experimental assessment of performance, combustion and emission characteristics of diesel fuelled with lemon peel oil, A. Aruna Kumari, G. Sivaji, Syed Arifa, O. Sai Mahesh, T. Raja Rao, S. Venkata Kalyan, V. Dhana Raju, K. Bhargava and K. Lakshman Reddy,

International Journal of Ambient Energy, (Dec 2020), 0143-0750 (Online), 2162-8246 (Print), [10.1080/01430750.2020.1861089](https://doi.org/10.1080/01430750.2020.1861089)

13. Mitigation of harmful exhaust pollutants of DI diesel engine using emulsified fuel and hythane gas in a dual-fuel mode, Radha Krishna Gopidesi , Premkartikkumar Sr & Vallapudi Dhana Raju, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (Jan 2021), 1556-7230 (Online), 1556-7036 (Print), [10.1080/15567036.2020.1861131](https://doi.org/10.1080/15567036.2020.1861131)

14. Impact of Injection timings and exhaust gas recirculation rates on the characteristics of diesel engine operated with neat tamarind biodiesel, K.Bala Prasad, V.Dhana Raju, Areef Ahamad Shaik, Radha Krishna Gopidesi, M.Bala Satya Sreekara Reddy, Manzoore Elahi M Soudagar, and Muhammad Abbas Mujtaba, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (June 2021), 1556-7230 (Online), 1556-7036 (Print), [10.1080/15567036.2021.1924314](https://doi.org/10.1080/15567036.2021.1924314)

15. Damage Assessment on Beam-Like Structures through Mode Shapes and its Curvatures, Siva Sankara Babu Chinka, Srinivasa Rao Putti, Balakrishna Adavi, International Journal of Disaster Recovery and Business Continuity, 11(3), 2363- 2375, (Nov 2020), 2207-8363 (Online), 2005-4289 (Print).

16. Modal testing and evaluation of cracks on cantilever beam using mode shape curvatures and natural frequencies, Siva Sankara Babu Chinka, Srinivasa Rao Putti and Bala Krishna Adavi, Structures, 32, 1386-1397, (Aug 2021), 2352-0124(Print), <https://doi.org/10.1016/j.istruc.2021.03.049>.

17. Design Optimization and Computational Flow Analysis of Annular Type Combustion Chamber, T J Prasanna Kumar , P Gopala Krishnaiah, Siva Sankara Babu Chinka, Kanulla Karthik, Kolahalam Sai Babu, International Journal of Disaster Recovery and Business Continuity, 12 (1), 1195-1206, (Nov 2020), 2207-8363 (Online), 2005-4289 (Print).

18. Decanol proportion effect prediction model as additive in palm biodiesel using ANN and RSM technique for diesel engine, A.Naresh Kumar, P.S.Kishore, K.Brahma Raju, B.Ashok, R.Vignesh, A.K.Jeevanantham, K.Nanthagopal, A.Tamilvanan, Energy, 213, 1-16 (Dec2020), 0360-5442 (Online), 1873-6785(Print),

19. Experimental analysis of higher alcohol-based ternary biodiesel blends in CI engine parameters through multivariate and desirability approaches, A. Naresh Kumar, B. Ashok, K. Nanthagopal, H. C. Ong, M. J. Geca, John Victor, R. Vignesh, A. K. Jeevanantham,

C. Kannan, P. S. Kishore, Biomass Conversion and Biorefinery, 1-16, (Nov 2020), 2190-6823, <https://link.springer.com/article/10.1007/s13399-020-01134-w>.

20. Combined influence of compression ratio and EGR on diverse characteristics of a research diesel engine fueled with waste mango seed biodiesel blend, Areef Ahamad Shaik , Seelam Rami Reddy , Vallapudi Dhana Raju & Murali Govindarajan, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (Aug 2020), 1556-7036 (Print), <https://doi.org/10.1080/15567036.2020.1811809>.

21. Assessment of diethyl ether as a fuel additive on the diverse characteristics of diesel engine powered with waste mango seed biodiesel blend, S. Rami Reddy , G. Murali & V. Dhana Raju, International Journal of Ambient Energy, (Oct 2020), 0143-0750 (Online), 2162-8246 (Print), <https://doi.org/10.1080/01430750.2020.1824944>.

22. Experimental evaluation of diesel engine powered with waste mango seed biodiesel at different injection timings and EGR rates, S. Rami Reddy, G. Murali, Areef Ahamad Shaik, V. Dhana Raju, M.B.S. Sreekara Reddy, Fuel, 285, 119047, 1-12, (Feb 2021), 0016-2361.

23. Design And Analysis of Seed Sowing Mechanism for Agriculture ROBOT, A Nageswara Rao, B Chaitanya, Dr. S Pichi Reddy, N Raju, B Udaya Lakshmi, B D I Prem Kumar, International Journal of Modern Agriculture, 10 (2), 4014-4021, (June 2021), 2305-7246, <https://www.modern-journals.com/index.php/ijma/article/view/1285>.

24. Fabrication and Modal Analysis of Composite Leaf Spring, Sankararao Vinjavarapu, K. V. Viswanadh, B. Sudheer Kumar, P. Gopala Krishnaiah, Jaya Raju Gandepudi, International Journal of Disaster Recovery and Business Continuity, 12 (1), 1133-1145, (June 2021), 2207-8363 (Online), 2005-4289 (Print).

25. Design and Static Structural Analysis of Pressure Vessel Using Finite Element Technique., P. Mastan Rao, T J Prasanna Kumar, P Gopala Krishnaiah, K Anupama Francy, Kolagotla Venkateswara Reddy, International Journal of Disaster Recovery and Business Continuity, 12 (1), 1288-1299, (June 2021), 2207-8363 (Online), 2005-4289 (Print).

Scopus Journals – 03

1. Multi Response Optimization of Electro Discharge Machining of Ti-4V-6Al Alloy Using Taguchi based Grey Relational Analysis, Jonnala Subba Reddy, A. V. S. S. K. S. Gupta, Design Engineering (tornoto), 2021 (3), 799-823, (June 2021), 0011-9342, <http://www.thedesignengineering.com/index.php/DE/article/view/1644>.

2. **Modeling& Testing of 3D -Printer Specimens by Universal Testing Machine**, Snigdha Surapaneni, B. Lakshmana Swamy, Mohan Awasthy, Pankaj Kumar Mishra, Design Engineering, 2021 (6), 1084-1091, (June 2021), 0011-9342,<http://www.thedesignengineering.com/index.php/DE/article/view/2086>.

3. **Super charging of IC Engines with thermoelectric generator and run generator from the waste heat of IC engines**, K.Madhu Babu, K.Karthik, S. Uma Maheswara Reddy, Om Narendra, V. Nagaraju, Turkish Online Journal of Qualitative Inquiry, 12 (6), 508-520, 1309-6591, <https://www.tojqi.net/index.php/journal/article/view/1182/529>.

Scopus Conf. Proceedings – 03

1. **Machinability studies of lead induced Ti-6Al-4V alloy using Taguchi technique on WEDM process**, A.V.S Ramprasad, RamjiKoon, Murahari Kolli, Materials Today: Proceedings, 44 (1), 2593-2599, (Feb 2021), 2214-7853, <https://doi.org/10.1016/j.matpr.2020.12.652>.

2. **Simulation of PV And WECS Using CUK and Sepic Converter**, M Sivaramkrishna, AVGAMarthanda, K Lakshmi Prasad, Syed Abdul Mujeer, Udaya Kumar Durairaj, Mohammad Salim, IEEE xplore, (May 2021), <https://ieeexplore.ieee.org/document/9432225/authors#authors>.

3. **Recent trends on titanium metal matrix composites: A review**, Dhanunjay Kumar Ammisetti, S S Harish Kruthiventi, Materials today: Proceedings, (Nov 2020), <https://www.sciencedirect.com/science/article/pii/S2214785320366153>.

Open Access Journals – 10

1. **Experimental and Cfd Analysis of Heat Transfer Rate in Multi Air Jet Impingement Over A Flat Plate and Pin-Fin Heat Sink**, Syed.Unees Babu, Perumalla Vijay Kumar, K. Lakshmi Prasad, International Journal of Innovative Technology and Exploring Engineering, 9 (12), 329-337, (Oct 2020), 2278-3075, L79831091220.pdf (ijitee.org).

2. **Fatigue and wear behaviuor of Ti-6Al-4V implant Alloy**, K.G. Basava Kumar, P.V. Chandra sekhar Rao, Pichi Reddy Seelam, Indian Foundry Journal, 66 (11), (June 2021), 0379-5446.

3. **Computational Performance Analysis of an Indirect Evaporative Cooler (IDEC) Unit**, Tanneeru Sai Ganesh, P. Ravindra Kumar, K. V.Viswanadh, Test Engineering and Management, 83 (12), 1-10, (Aug 2020), 0193-4120.

4. **Experimental investigation on performance of vapour compression refrigeration system with integrated sub-cooling**, K.Dilip Kumar, Ch. Chandra Sekhar Reddy, T.Srinivasa Rao, B.PrasannaNagasai, Test Engineering and Management, 83 (12), 1-10, (Aug 2020), 5104-5111.
5. **Experimental Study of Heat Transfer Rate in Single and Series Cross Flow Heat Exchanger using Matlab Coding**, P.ParabrahmaSai, K.Lakshmi Prasad, P.Ravindra Kumar, K. Srinivasa Rao, International Journal of Engineering and Advanced Technology, 12 (3), 273-280, (Oct 2020), 2249-8958.
6. **Modeling and Manufacturing of Progressive Die for Mechanical Press Operations**, V.Venkatrami Reddy, K.BhaskarMutyalu, S.Srinivasa Reddy, M.RajaNaik, Turkish Journal of Computer and Mathematics Education, 12 (3), 3662-3671, (April 2021), 1309-4653.
7. **Super charging of IC Engines with thermoelectric generator and run generator from the waste heat of IC engines**, K.Madhu Babu, K.Karthik, S. Uma Maheswara Reddy, OmNarendra, V. Nagaraju, Turkish Online Journal of Qualitative Inquiry, 12 (6), 508-520, (June 2021), 1309-6591.
8. **Improvement of weld joint strength by applying random vibrations along with external Magnetic field**, Suresh Chitturi, Mohana Krishna Chowdary K, MummunBhaumik, Dhanunjay Kumar Ammisetti, IOP Conference series: Materials science and Engineering, 998, 012035, 1-7, (Aug 2020), 17578981, 1757899X, <https://iopscience.iop.org/article/10.1088/1757-899X/998/1/012035>.
9. **Optimization of productivity of seats using time study and assembly line balancing**, Muddineni Naresh, Dhanunjay kumar Ammisetti, Ch.Suresh & Pakanati Anil Kumar, International Journal of Mechanical and Production Engineering Research and Development, 10 (3), 3829-3838, (June 2020), ISSN (P): 2249-6890; ISSN (E): 2249-8001,
10. **Experimental Investigation of Diesel Engine with Novel Juliflora Biodiesel**, Dasari Akhil, K. Appa Rao, International Journal of Innovative Technology and Exploring Engineering 10(1), (Nov-2020) 2278-3075,(Online).

Type of journal	SCI	Scopus	UGC	Total
No. of publications	25	06	10	41