



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

DEPARTMENT OF MECHANICAL ENGINEERING

JOURNAL PUBLICATIONS for the A.Y: 2021-22

SCI Journals - 07

1. Development of empirical correlations for density and viscosity estimation of ternary biodiesel blends, M.A.Mujtaba, M.A.Kalam, H.H.Masjuki, Luqman Razzaq, HarisMehmood Khan, Manzoore ElahiM. Soudagar, M.Gul, Waqar Ahmed, **V. DhanaRaju**, Ravinder Kumar, Hwai Chyuan Ong, Renewable Energy, doi.org/10.1016/j.renene.2021.07.121, Nov- 2021, ISSN: 0960-1481
2. Computational comparison and experimental performance analysis on heat pipes using concentrating solar parabolic trough collector, **Ravindra Kumar Pasupuleti**, Nelakuditi N Babu, **K. Lakshmi Prasad**, ProcIMEchE Part A: J Power and Energy, DOI: 10.1177/09576509211070118, Feb: 2022, ISSN: 0957-6509.
3. Analysis of particle size diameter (PSD), mass fraction burnt (MFB) and particulate number (PN) emissions in a diesel engine powered by diesel/biodiesel/n-amyl alcohol blends, Harish Venu, IbhamaVeza, LokeshSelvam, PrabhuAppavu, **V. Dhana Raju**, LingesanSubramani, Jayashri N. Nair, Energy, DoI:10.1016/j.energy.2022.123806, March-2022, ISSN: 0360-5443.
4. Evaluation of performance, emissions and combustion attributes of CI engine using palmyra biodiesel blend with distinct compression ratios, EGR rates and nano-particles, **Perumalla Vijaya Kumar**, B.Ashok, M. Senthilkumar, R. Vignesh, J. Pradeep Bhasker, A. Naresh Kumar, FUEL, doi.org/10.1016/j.fuel.2022.124092, April-2022, ISSN: 0016-2361.
5. Mechanical Behaviour and Thermal Properties of Pine Apple Leaf Fiber Reinforced Vinyl Ester Composites, Mohamad Reda A. Refaai, U. Tamilarasan, **K. Dilip Kumar**, M. Karthe , C. Anbu, and Simon Yishak, Advances in Polymer Technology, Doi.org/10.1155/2022/4386650, April 2022, ISSN: 1098-2329
6. Experimental assessment of diverse diesel engine characteristics fueled with an oxygenated fuel added lemon peel biodiesel blends, **V.Dhana Raju**, ManzooreElahi, M.Soudagari, Harish Venu, JayashriN Nair, **M.B.S.Sreekar Reddy**, **J.Subba Reddy**, T.Srinivasa Rao, T.M.Yunus Khan, Khadiga Ahmed Ismail, Ashraf Elfakhany, [Fuel](https://doi.org/10.1016/j.fuel.2022.124529), doi.org/10.1016/j.fuel.2022.124529, May-2022, ISSN: 0016-2361.
7. Mechanical Properties of Arecanut and GFR Hybrid Polypropylene Composites, Yarrapragada K. S. S. Rao, Ayaz Ahmad, **Sudheer Kumar Battula**, Reem Mohammed Alharbi, Neveen Abdel-Raouf, Ibraheem Borie M. Ibraheem, EssamNagehSholkamy, B. M. Bala, I. Jenish, Advances in Polymer Technology, doi.org/10.1155/2022/9633829, May 2022, ISSN: **0730-6679**.

ESCI Journals - 10

1. Study on the effect of machining characteristics of B4C powder mixed EDM of inconel X-750 alloy, Shaik Khadar Basha, M.V.Jagannadha Raju, **Murahari Kolli**, Advances in Materials and Processing Technologies, Sep-2021, doi.org/10.1080/2374068X.2021.1970984, 2374-068X (ISSN)
2. Computational Analysis of Conventional and Helical Finned Shell and Tube Heat Exchanger Using ANSYS-CFD, **Ravindra Kumar Pasupuleti**, Manindra Bedhapudi, **Subba Reddy Jonnala**, **Appa Rao Kandimalla**, International Journal of Heat and Technology, Dec- 2021, doi.org/10.18280/ijht.390608, ISSN: 0392-8764.
3. An Experimental Investigation on emission characteristics and vibration analysis of a diesel engine, M.BalaChennaiah, **K Dilip Kumar**, G Dilli Babu, Srinivasa Rao Tanneru, **B Kamala Priya**, Advances in Materials and Processing Technologies, Jan 2022, doi.org/10.1080/2374068X.2022.2033002, ISSN: 2374-068X
4. Dynamic mechanical properties of magnetohelical polyurethane elastomer in compression to existing antivibration rubber, **Batulla Sudheer Kumar**, P.Rama Murthy Raju, Ch. Ratnam, Advances in Materials and Processing Technologies, Feb 2022, doi.org/10.1080/2374068X.2022.2036449, ISSN: 2374-068X.
5. RSM-TOPSIS multi optimization of EDM factors for rotary stir casting hybrid (Al7075/B4C/Gr) composites, Devaraju Aruri, **Murahari Kolli**, Satyanarayana Kosaraju, G. Sai Kumar, International Journal on Interactive Design and Manufacturing, doi.org. 10.1007/s12008-022-00893-2, May 2022, ISSN: 1955-2513.
6. Study on machinability of Ti6Al4V with coated inserts—cutting force, surface finish and material removal rate prediction using ANN, Satyanarayana Kosaraju, Devaraju Aruri **Murahari Kolli**, G. Sai Kumar, Phaneendrababu Bobba, International Journal on Interactive Design and Manufacturing, doi.org. [10.1007/s12008-022-00874-5](https://doi.org/10.1007/s12008-022-00874-5), May 2022, ISSN: 1955-2513.
7. Influence of grain refiner, modifier and grapheme on the Dry sliding Wear of Hypereutectic Al-Si Alloys, C.Sumalatha, **P.V.ChndraSekhar Rao**, V.V.Subba Rao, M.S.K.Deepak, Metallography Microstructure and Analysis, May 2022, doi.org. 10.1007/s13632-022-00849-8, ISSN: 2192-9270.
8. Effectiveness of Shannon Entropy Weight Method on Wear Behaviour of Polyester/Carbon Fibre Composites Using GRA, Naga Venkata Saira, Yellapragada Sameer Kumar, Devarakonda Kondala Rao, Dasari Naga Sai Rama Krishna Thati, **Jaya Sai Abhaya Veeranjaneya Vara Prasad Alapati**, Annales de Chimie - Science des Matériaux, 46(1): 9-17, March 2022, ISSN: 0151-9107.
9. Investigation on mechanical and tribological properties of AA6061/ Gr composites for solar header pipes, R Ranjith, V P Pradeep, B R Senthil Kumar, K Somasundaram, **K Lakshmi Prasad**, Journal name: Engineering Research Express, 4, 025018, 1-15, May 2022, ISSN: 2631-8695.
10. Investigation on material removal rate and taper angle in abrasive aqua jet machining of Al 7075/SiC/Gr composites using RSM approach, **Murahari Kolli**, Ravi Prakash Babu, Sai Naresh dasari, Devaraju Aruri Satyanarayana Kosaraju, International Journal on Interactive Design and Manufacturing, Doi: [10.1007/s12008-022-00898-x](https://doi.org/10.1007/s12008-022-00898-x), June 2022, ISSN: 1955-2513.

Scopus Journals – 7

1. Multi objective optimization of process parameters for powder mixed electrical discharge machining of Inconel X-750 alloy using Taguchi -TOPSIS approach, Shaik Khadar Basha, M.V.Jagannadha Raju, **Murahari Kolli**, Journal of Mechanical Engineering, Oct- 2021, DoI: 10.2478/scjme-2021-0001, ISSN: 2450-5471
2. Assessment of Mechanical Properties of Kenaf - Kevlar Composites made by Hand Lay-up Technique, D.S.Jenaris, N.Ramanan, **M.B.S.Sreekara Reddy**, A.Bobas Herbert Bejaxhin, E.VetreSelvan, International Journal of Mechanical Engineering, Vol.7 No1, Jan- 2022, ISSN: 0974-5823
3. Properties of Magnesium Alloy Az91d With Tic Reinforced Composite Material Based On Tensile And Wear Tests, Sd.AbdulKalam, **Siva Sankara Babu Chinka**, Seshaiiah.T, Degala Rajendra, International Journal of Mechanical Engineering, Vol.7 No2, March-2022, ISSN: 0974-5823.
4. Combined influence of injection pressure and exhaust gas recirculation on the characteristics of the diesel engine fueled with juliflora biodiesel, Satish Kumar, asavaraju Alenahally Ningegowda, **Vallapudi Dhana Raju**, International Journal of Ambient Energy, Doi/org. 10.1080/01430750.2022.2075929, May 2022, ISSN: 0143-0750.
5. Experimental assessment of dibutyl ether on the performance, combustion and emission characteristics of the diesel engine fuelled with Indian black berry biodiesel, Nitin Kamitkar, asavaraju AlenahallyNingegowda, **Vallapudi Dhana Rau**, International Journal of Ambient Energy, Doi/org. 10.1080/01430750.2022.2075926, May 2022, ISSN: 0143-0750.
6. Assessment of Indian black berry biodiesel characterization and its suitability for the diesel engine applications with oxygenated fuel additives, Nitin Kamitkar, asavaraju AlenahallyNingegowda, **Vallapudi Dhana Rau**, International Journal of Ambient Energy, Doi/org. 10.1080/01430750.2022.2075930, May 2022, ISSN: 0143-0750.
7. Energetic and Exergetic performances of a parabolic solar trough collector working with TiO₂ & Al₂O₃ nanofluids for variable temperature applications, **K. Dilip Kumar**, T. Srinivasa Rao, S. Kiran Kumar, S.K. Smadhil, G. Subhash, International Journal of Ambient Energy, Doi: 10.1080/01430750.2022.2083677, May 2022, ISSN: 0143-0750.

Scopus Conf. Proceedings – 09

1. Electrical Discharge Machining of SIC Reinforced 6061 Aluminium Alloy Surface Composite Fabrication by Friction Stir Processing, **Murahari Kolli**, Devaraju Aruri, Saikumar Gadkary, Satyanarayana Kosaraju, E3S Web of Conferences 309, 01044, doi.org/10.1051/e3sconf/202130901044, Oct-2021, ISSN: 2267-1242.
2. Impact of Graphene Nanoparticles Addition to Jatropha Biodiesel Blend on the Performance and Emission Characteristics of a Diesel Engine, **D. Malikarjuna Rao**, Venkatasomi Reddy Janga, **V. Dhanaraju**, Syed Arifa, Lecture Notes in Mechanical Engineering, DoI: 10.1007/978-981-16-4222-7_90, Oct- 2021, ISSN: 2195-4364.
3. Effect of machining parameters on cutting forces during turning of EN 08, EN 36 & mild steel on high speed lathe by using Taguchi orthogonal array, K. BhaskarMutyalu, **V. Venkatrami Reddy**, **S. Uma Maheswara Reddy**, **K. Lakshmi Prasad**, Materials Today, [DoI.org/10.1016/j.matpr.2021.06.374](https://doi.org/10.1016/j.matpr.2021.06.374), July 2021, ISSN: 2214-7853.

4. Effect of addition of bio-additive clove oil to ternary fuel blends (Diesel-Biodiesel- Ethanol) on compression ignition engine, Jayashri N. Nair, Thokchom Subhaschandra Singh, **Vallapudi Dhana Raju**, Journal of Physics: Conference Series, DoI: 10.1088/1742-6596/2070/1/012212, Dec-2021, ISSN: 1742-6596.
5. Sound absorption characteristics of DL-MPP with non-circular perforations using electro-acoustical model, **M.B.S. Sreekar Reddy**, R.Kiran Kumar, Materials Today Proceedings, DoI: 10.1016/j.matpr.2021.12.069, Dec-2021, ISSN: 2214-7853.
6. Influence of diethylether on the diesel engine diverse characteristics fuelled with waste plastic biodiesel, kunduru Srinivasa Redy, Yarrapathruni venkata Hanumantha Rao, **Vallapudi Dhana Raju**, Materials Today Proceedings, Doi.org/10.1016/j.matpr.2022.01.446, Feb-2022, ISSN: 2214-7853.
7. Experimental analysis of azolla biodiesel blends in CI Engine, N. Sunil Naik, **Dhanunjay Kumar Ammisetti**, B. Kishan, and Suresh Chitturi, Lecture Notes in Mechanical Engineering, doi.org/10.1007/978-981-16-7282-8_27, March 2022, ISSN: 2195-4364
8. Impact of nano-filler WC on the fracture strength of epoxy resin, A.Sreenivasulu, S.Rajkumar, Sridhar Sathyanarayana, S.Suresh kumar, G.V.Gaurav, **Bandaru Dyva Isac Premkumar**, Materials today Proceedings, doi.org/10.1016/j.matpr.2021.12.112, 19, May 2022, ISSN: 2214-7853.
9. Effect of grain refiner, modifier and graphene on the mechanical properties of hyper eutectic Al-Si alloys by experimental and numerical investigation, C.Sumalatha, P.V.ChndraSekhar Rao, V.V.Subba Rao, M.S.K.Deepak, Materials today Proceedings, [10.1016/j.matpr.2022.04.544](https://doi.org/10.1016/j.matpr.2022.04.544), 14 May 2022, ISSN: 2214-7853.

Type of journal	SCI	ESCI	Scopus	Conf. Proceedings	Total
No. of publications	07	10	07	09	33