

DEPARTMENT OF MECHANICAL ENGINEERING

**PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU,
VIJAYAWADA**

Academic Year: 2023-24

Faculty Publications

Web of Science			Scopus	Referred	Total Journals	International Conference		Book Chapters (Scopus)	Total Conference Publications	Total Publications
						(Scopus)	(Others)			
SCI	ESCI	SCI/Scopus								
1	2	11	16	8	38	6	25	7	38	76

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1. Ramakrishna Kolluru, **Phani Prasanthi**, A. Swarna Kumari, Mechanical characterization of natural hybrid composites for automotive applications, Journal of the Brazilian Society of Mechanical Sciences and Engineering, ISSN: 1678-5878, September-2023, Volume-45, Issue-511, Springer Publications.
<https://doi.org/10.1007/s40430-023-04442-0>,

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2. **Prasanthi Phani**, Raghavendra Gujjala, Shakuntala Ojha & Aswani Kumar Bandaru, Micromechanics and finite element approaches on the influence of fibre irregular surface and debonding on the elastic properties of jute/epoxy composites, Composite Interfaces, ISSN: 1568-5543, October-2023,
<https://doi.org/10.1080/09276440.2023.2264038>

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3. **Balakrishna Gogulamudi**, Raghu Kumar Bandlamudi, Balakrishna Bhanavathu, Venkata Sarath Kumar Guttula, Effect of welding speed on butt joint quality of laser powder bed fusion AlSi10Mg parts welded using Nd:YAG laser, De Gruyter academic publishing, International Journal of Materials Research-2023, ISSN: 2195-8556, November-2023, <https://doi.org/10.1515/ijmr-2022-0230>

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4. P. Siva Nagasree, **K.I. Vishnu Vandana**, Ch. Hima Gireesh, M.K. Naidu, Ch. Prasad, Integrated MCDM techniques for the selection of hybrid MWCNT/Ni–Zn–Fe nanocomposites for X-band radar absorption applications, *Inorganic Chemistry Communications*, Volume-161, March-2024, <https://doi.org/10.1016/j.inoche.2024.112139>, (SCIE/Scopus Indexed)

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6. L. Natrayan, Neelima Devi Chinta, **Balakrishna Gogulamudi**, V. Swamy Nadh, G. Muthu,S. Kaliappan, Chidurala Srinivas, Investigation on mechanical properties of the green synthesis bamboo fiber/eggshell/coconut shell powder-based hybrid bio-composites under NaOH conditions, *Green Processing and Synthesis*, Volume-13, Issue-1, ISSN: 2191-9542, Pg:1-11, February-2024, <https://doi.org/10.1515/gps-2023-0185>, (SCI/Scopus Indexed)

7. **P. Phani Prasanthi**, U. Koteswara Rao, V. V. Venu Madhav, B. Kiran Kumar , V. Raghavender, Vijilius Helena Raj, Ashish Kumar, Gandikota Ramu, Shukhratovich Abdullaev, Effect of tapered natural fiber on elastic properties of sisal fiber-reinforced composite: An experimental and micromechanics approach, *Innovation and Emerging Technologies*, World Scientific Publishing Co., Volume-11, Pp: 2440006-1 - 2440006-9, ISSN: 2737-5994, doi:10.1142/S2737599424400061, (ESCI Indexed)

8. **Phani Prasanthi**, M. S. R. Niranjan Kumar, V. V. Venu Madhav, Nakul Gupta, V. Revathi, A. Somaiah, Kuldeep K. Saxena, Dipali Bhole, Fabrication of natural fiber-mixed natural matrix composite-infused indoor air purifier with health impact simulation, *Innovation and Emerging Technologies*, World Scientific Publishing Co., Volume-11, Pp: 2440005-1 - 2440005-11, ISSN: 2737-5994, doi:10.1142/S273759942440005X, (ESCI Indexed)

9. **Papabathina Mastan Rao**, Sneha Haresh Dhoria, S Gopal Krishna Patro, Radha Krishna Gopidesi, Meshel Q. Alkahtani, Saiful Islam, Murkonda Vijaya, Juturi Lakshmi Jayanthi, Mohammad Amir Khan, Abdul Razak, Raman Kumari, Achmad Rizal, Muhammad Imam Ammarullah, “Artificial intelligence based modelling and hybrid optimization of linseed oil biodiesel with graphene nanoparticles to stringent biomedical safety and environmental standards”, *Case Studies in Thermal Engineering* 51 (2023) 103554, September-2023, DOI: <https://doi.org/10.1016/j.csite.2023.103554> (SCI/Scopus Indexed)

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11. P. Venkataramana, V. Mani Kumar, **N. Raghu ram**, Siva Sankara Babu Chinka, Experimental investigation of air jet impingement cooling in car radiator with hollow cone nozzle plate spacing using nanofluids ,*Heat and Mass Transfer*, ISSN: 0947-7411, <https://doi.org/10.1007/s00231-024-03493-w>, June-2024. (SCI/Scopus Indexed)

12. Somaiah Chowdary Mallampati, Raghavendra Gujjala, Anupama Ammulu Manne, M. S. R. Niranjan Kumar, Indran Suyambulinagm, Suchart Siengchin, Aswani Kumar Bandaru, Influence of various environments on the mechanical properties of nanoclay reinforced S-glass/sisal hybrid polyester composites, Polymer Composites, June-2024, Pg: 1-12, **(SCI/ Scopus Indexed)**

13. T. Yuvaraj, S. K. Tamang, R. Arivazhagan, **M. Naga Swapna Sri**, Enhancing EDM performance on TiN-Si3N4 using a hybrid computation intelligence algorithm (Grey-ANFIS), Journal of the Australian Ceramic Society, ISSN: 2510-1560, February-2024, DOI:<https://doi.org/10.1007/s41779-024-00994-z>, **(SCI/ Scopus Indexed)**

14. Jeyakrishnan Sundararaj, **Movva Naga Swapna Sri**, Anusha Peyyala, Vijayakumar Sivasundar, Grey-Taguchi Approach for Optimizing FSW Parameters in Joining AA6262 and AA5083 Alloys, Chiang Mai Journal of Science, ISSN: 0125-2526, November-2023, DOI: <https://doi.org/10.12982/CMJS.2024.003>, **(SCI/Scopus Indexed)**

15. S. Jeyakrishnan, S. Vijayakumar, **M. Naga Swapna Sri**, P. Anusha, An integration of RSM and ANN modelling approach for prediction of FSW joint properties in AA7178/AA5456 alloys, Canadian Metallurgical Quarterly The Canadian Journal of Metallurgy and Materials Science, Taylor & Francis publishers, ISSN: 1879-1395, January-2024, <https://doi.org/10.1080/00084433.2024.2310344>, **(SCI/Scopus Indexed)**

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- 1. Kode Srividya**, S. Ravichandran, M. Kumarasamy, Balachandra Pattanaik, Manjula Pattnaik, Ram Subbiah, P. Satishkumar, Design and analysis of wear parameters for epoxy based composite using RSM-box behnken optimization tool, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 1955-2505, July-2023, **(Scopus Indexed/ESCI)**, <https://doi.org/10.1007/s12008-023-01449-8>
- 2.** Srikanth Karumuri, Barun Haldar, A. Pradeep, Sai Ashish Kumar Karanam, **M. Naga Swapna Sri**, P. Anusha, N. Sateesh, Ram Subbiah, S. Vijayakumar, Multi-objective optimization using Taguchi based grey relational analysis in friction stir welding for dissimilar aluminium alloy, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-18, Issue-3, ISSN: 1955-2505, October-2023, pp.1627–1644, <https://doi.org/10.1007/s12008-023-01529-9>, **(Scopus Indexed/ESCI)**
- 3. T. Srinag**, R. Suresh Kumar, CH. Lakshmi Srinivas, Bharat Singh, P. Phani Prasanthi, V. V. Venu Madhav, Din Bandhu, Ashish Saxena, Sherzod Shukhratovich Abdullaev, Flexural and impact response of bamboo and pineapple leaf fiber reinforced composites using experimental and numerical techniques, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-17, Issue-6, ISSN: 1955-2513, Pg:1-13, October-2023, <https://doi.org/10.1007/s12008-023-01564-6>, **(Scopus Indexed/ESCI)**

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5. **Phani Prasanthi P**, Ch. Mohan Sumanth, V. V. Venu Madhav, Bharat Singh, Kuldeep K. Saxena, C. Labesh Kumar, Vinayak Malik, Ch. Sri Chaitanya, Sherzod Shukhratovich Abdullaev, Modelling and mechanical properties evaluation for lap joint of natural composites using finite element method, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 1955-2513, Pg:1-13 November-2023, <https://doi.org/10.1007/s12008-023-01627-8>, (**Scopus Indexed/ESCI**)
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8. **T J Prasanna Kumar**, Jasti Surendra, Ponnuru Anusha, Dr M. Babu Prasad, Manasa Bandlamudi, K. Praveen Kumar, Anil Kumar Pallikonda, Engendering Finest Test Cases by Using G-genetic Algorithm Variant SSGA, Journal of Theoretical and Applied Information Technology, Volume.101. Issue- No 24, ISSN: 1992-8645, Little Lion Scientific Publishers, Pg: 8328-8337, December 2023, (**Scopus Indexed**)
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11. **E. Kavitha**, Dr. Hemlata M. Jadhav, Vishal Goyal, A. Deepak, Hemant Singh Pokhariya, Dr. Brijesh Dutt Sharma, Dr. Anurag Shrivastava, Utilizing Convolutional Neural Networks for

Image-Based Crop Classification System, International Journal of Intelligent Systems And Applications In Engineering, ISSN: 2147-6799, 2024, 12(3s), Pg: 685–694, **(Scopus Indexed)**

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13. **K. Srividya**, S. Ravichandran, M. Thirunavukkarasu, Itha Veeranjanyulu, P. Satishkumar, K. Bharadwaja, N. Srinivasa Rao, Ram Subbiah, Javvadi Eswara Manikanta, Examination of electrochemical machining parameters for AA6082/ZrSiO4/SiC composite using Taguchi-ANN approach, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 1955-2513, Pg:1-15, DOI: <https://doi.org/10.1007/s12008-024-01761-x> **(Scopus Indexed)**
14. Kothuri Chenchu Kishore Kumar, **Bandlamudi Raghu Kumar**, Nalluri Mohan Rao, Artificial Neural Network Modeling Of Tribological Parameters Optimization Of Az31-Sic Metal Matrix Composite, Applied Engineering Letters, Vol.8, No.3, 111-120 (2023), e-ISSN: 2466-4847, September-2023, Pg:111-120, DOI: <https://doi.org/10.18485/aeletters.2023.8.3.3>, **(Scopus Indexed)**
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2. Lakshmana Rao Muppa, **Raghu Kumar Bandlamudi**, G. Harinath Gowd, P Gangisetty, Optimization Of Transportation Cost Through Data Science Using Python, Industrial Engineering Journal ISSN: 0970-2555 Volume: 52, Issue 11, No. 2, Pg: 105-112, November : 2023**(Others)**
3. Srinivas Prasad Sanaka, **Sravani Vemuri**, K.Durga Rao, Transient acoustic analysis on ship propeller using CFD, Mukta Shabd Journal, Volume XII, Issue XI, NOVEMBER/2023, ISSN NO : 2347-3150, Pg: 719-733 **(Others)**
4. Srinivas Prasad Sanaka, K.Durga Rao, **Sravani Vemuri**, Computational Analysis Of Combustion In Scramjet Engine, Mukta Shabd Journal, Volume XII, Issue XI, NOVEMBER/2023, ISSN NO : 2347-3150, Pg: 734-741**(Others)**
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on Influence of various Core Materials and their Cell Geometry on Strength to Stiffness of Honeycomb Sandwich Structure, International Journal of Research Publication and Reviews, Vol 5, no 2, ISSN 2582-7421, pp: 3142-3152 February 2024, DOI: <https://doi.org/10.55248/gengpi.5.0224.0571>(**Others**)

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8. Sandip Kunar, **M. Naga Swapna Sri**, P. Anusha, P Satishkumar, Itha Veeranjanyulu, N. Srinivasa Rao and S. Vijayakumar, Development of Electrochemical Microtextured Cell for Fabrication of Complex Micropattern, Recent Patents on Mechanical Engineering, ISSN: 2212-7976, DOI: 10.2174/0122127976287865240326062010, April-2024. (**Yet to Scopus Indexed**)

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2. Thota Venkateswara Rao, S Jeyakrishnan, D R Rajkumar, Ram Subbiah, S Vijayakumar, **M. Naga Swapna Sri**, P Anusha, Fabrication and Tensile Impact and Hardness test of Al6061/SiC/Coconut Shell Ash Composites, Proceedings of 2nd International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023), Advances in Science, Technology & Innovation, organized by CARE college of Engineering, Thiruchirapally, Tamilnadu from 30th to 31st August-2023 at Trichy, India.Pg:31-37, DOI: https://doi.org/10.1007/978-3-031-49826-8_5 (**Scopus Indexed**)
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7. **T J Prasanna Kumar**, Grey relational optimization of the micro-electrochemical drilling response variables material extraction rate, overcut, and surface roughness of Inconel 718 alloy” 3rd International Conference on Materials Science and Engineering (ICMSE) held on November 23-25, 2023 and organized by the Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India, Proceeding to Materials Today
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9. M. Lava Kumar, G.S. Guru Dattatreya, S. Rajesh, **T.J. Prasanna Kumar**, R. Balamurugan, T.A. Selvan, S. Madhankumar, Optimization of the microelectrochemical drilling response variables of Inconel 718 alloy by grey relational analysis, 3rd International Conference on Materials Science and Engineering, Materials Today Proceedings, April-2024, <https://doi.org/10.1016/j.matpr.2024.04.075>
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13. **M. Rajyalakshmi** , K. I. V. Vandana, Hybrid Solar Distillation fabrication for water purification, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**

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15. **V.Sravani**, T.J.Prasannakumar, B. kamala Priya, E.Kavitha, .P.Phani Prasanthi, .P.Anusha, M. Kavya Sree, Design And Fabrication Of A Sieving Machine Using An Eccentric Mechanism For Efficient Separation Of Materials, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**
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17. **E. Kavitha**, M.Radha Devi, Shaik.Eijaj, P.Pardha Viswanadh, N.Dhanush Reddy, Shaik.Sirajuddin, Steel Surface Defects Detection Through Machine Learning, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**
18. **Vidya Chaparala**, G. Ravi Kiran Sastry , P. Phani Prasanthi, Analytical Optimization of Crystalline Nano Cellulose-Dispersed H₂O/C₂H₆O₂ Nano Fluids Using Response Surface Methodology, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**
19. **K. Venkatarao**, Ch. Lakshmi Kanth, V. Sravani, N. Manoj Kumar, V. Eswar Balaji, V. Veera Manikanta, Sk. Suhail, Heat Transfer Enhancement Of An Automobile Engine Radiator Using Al₂O₃/Cu₂O Water Base Nanofluids, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**
20. **K.Nithin**, J.Jathin, G.Hemanth Kumar, M.Virinchi, G.V.S.Ravi Teja, G.Bhargav, B.Prem sai, K.Raju, B. Sai Kausik , Dr.P.Anusha, Dr.M.Naga Swapna Sri, A Brief Overview Of Magnetic Refrigeration, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**
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22. **K. Venkatarao**, Ch. Lakshmi Kanth, V. Sravani, T. Hari Krishna, T. Kiran Kumar, V. Chandra Sekhar, V. Chinna Murali Krishna, Experimental And Cfd Analysis Of Thermal Performance Improvement Of Automobile Radiator Using Al₂O₃-TiO₂ Water Base Nanofluids, ICRAMIE-24 organized by Dept of ME, PVPSIT from 22 March to 23 March 2024, ISBN: 9789355660909. **(Others)**
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24. **T J Prasanna Kumar** , B Rajeev Kumar, Static and Transient Structural and Steady State Thermal Analysis on Automobile Wheel Varying Core Wall Material of Honeycomb Structure,

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