

DEPARTMENT OF MECHANICAL ENGINEERING
PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY,
KANURU, VIJAYAWADA
Academic Year: 2024-25
Faculty Publications

Web of Science			Scopus	Referred	Total Journals	International Conference		Book Chapters (Scopus)	Total Conference Publications	Total Publications
						(Scopus)	(Others)			
SCI	ESCI	SCIE/Scopus								
		10	14	8	32	4	16	1	21	53

SCIE/SCOPUS INDEXED

1. **Prasanna Kumar T J**, Sivajibabu K, Durga Prasad B, Thermo-elastic vibration analysis and optimization of a nanoresonator composed of a coupled nanotube system for acoustic liner application using the hybrid deep neural network-based white shark algorithm. Journal of Vibration and Control. 2024; 0(0), ISSN: 1077-5463, August-2024 <https://doi.org/10.1177/10775463241272934> (SCIE/Scopus Indexed)
2. **E. Kavitha**, Ismail Kakaravada, Sumanth Ratna Kandavali, S.Prabakaran, Sea urchin testa chitin and its reinforcement effect on pineapple fiber-vinyl ester composite, Biomass Conversion and Biorefinery, ISSN:2190-6815, September-2024, <https://doi.org/10.1007/s13399-024-06078-z> (SCIE/Scopus Indexed)
3. André McGlashan, Peter N. Nelson, P. Syam Prasad, M. Iezid, F. Goumeidane,**P. Phani Prasanth P. Venkateswara Rao**, Introducing Nickel Ions into a Bismuth Boro Tellurite Glass System and Its Effect on Physical and Material Properties, ECS Journal of Solid State Science and Technology, Volume-13 Issue- 11, ISSN: 2162-8769 , November-2024 (SCIE/Scopus Indexed)
4. Madugula Naveen Srinivas, Parthiban Krishnan, Veerappan Selvam, Itha Veeranjanyulu, Nidamanuri Srinivasa Rao, **Anusha Peyyala**, Nagari Sateesh, Ram Subbiah, An investigation on the mechanical and corrosion characteristics of magnesium-zinc alloy nanocomposites manufactured via ultrasound-assisted stir squeeze casting, Metallurgical Research and Technology, Volume 121, Number 6, 2024, ISSN: 2271-3646, November-2024, <https://doi.org/10.1051/metal/2024094> (SCIE/Scopus Indexed)
5. A P, Rao V, **Anusha P**, Naga Swapna Sri M, M V, G A. Statistical analysis on influence of groove patterns on the mechanical strength of friction-welded SAE1018 steel. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering.

6. Desikan Sriram, Vittel Rao, Sivasundar Vijayakumar, **Anusha Peyyala**, Movva Naga Swapna Sri, Nidamanuri Srinivasa Rao,, Nageswararao Cheepurupalli,, Ram Subbiah“Microstructure, mechanical properties of dissimilar friction stir welded AA6063/AA5052 alloys, and optimization of process parameters using Box Behnken-TOPSIS approach,” Kovove Materialy-Metallic Materials, ISSN: 0023-432X, Pg: 363-375, December-2024, doi: 10.31577/km.2024.6.363. (SCIE/Scopus Indexed)
7. **Prasanna Kumar T J**, Sivajibabu K, Durga Prasad B, Thermo-Elastic Vibration Analysis of Acoustic Liners Using Polymer-Metal Nanocomposites: Prediction and Optimization of Hybrid Deep Neural Network and Cuckoo Search Algorithm. Journal of Vibration Engineering and Technologies 2024; Volume-13, Issue-49 ISSN: 2523-3920, January-2025 <https://doi.org/10.1007/s42417-024-01550-6> (SCIE/Scopus Indexed)
8. **Phani Prasanthi**, Haritha Akkineni, U. Koteswara Rao, V. V. Venu Madhav, Kuldeep K Saxena, Rakesh C, Lakshita Sehgal, Mushtaq Ahmad Ansari, Predictive analysis of natural fiber-reinforced composite printed circuit boards using experimental, finite element, and machine learning approaches, Journal of Mechanical Science and Technology, Volume 39, Issue-8, May 2025, ISSN: 1976-3824, <http://doi.org/10.1007/s12206-025-04-y> (SCIE/Scopus Indexed)
9. Venugopal Palaniswamy, Anusha Peyyala, Prabhu Paramasivam, Itha Veeranjanyulu, Performance Analysis Of Electrochemical Micromachining Using Simple Additive Weighting,Criteria Importance Through Inter Criteria Correlation, And Artificial Neural Network Methods, Chemical Industry & Chemical Engineering Quarterly ISSN: 2217-7434, Volume- 2, Pg: 123–130 May-(2025), <https://doi.org/10.2298/CICEQ240220020P> (SCIE/Scopus Indexed)
10. Parthapratim Barman, Paladugu Rakesh, **Somaiah Chowdary Mallampati**, Ujendra Kumar Komal, Recent advances in lignocellulosic fibers for developing sustainable composites: extraction, surface modification and characterization- A review, International Journal of Biological Macromolecules, Volume 310, Part 3, May-2025, 143360, ISSN 0141-8130, <https://doi.org/10.1016/j.ijbiomac.2025.143360> (SCIE/Scopus Indexed)

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2. Abdul Arif, Vallapureddy Siva Nagi Reddy, **Kode Srividya**, Ujwal Teja Mallampalli, Utilizing multilayer perceptron for machine learning diagnosis in phase change material based thermal management systems, Heat Transfer, 2024; Volume-1, Issue-26, August-2024, doi:10.1002/htj.23163, (ESCI/Scopus Indexed)
3. **P. Phani Prasanthi**, D. Atchuta Ramacharyulu, K. Sivaji Babu, V. V. Venu Madhav, Ch. Sri Chaitanya, Kuldeep K. Saxena, V. Revathi, Dilsora Abduvalieva, Din Bandhu, Role of fiber orientation and design on thermal and mechanical properties of natural composite, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN:1955-2513,August-2024 <https://doi.org/10.1007/s12008-024-02042-3> (ESCI/Scopus Indexed)

4. **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, ISSN: 2504-477X, Publisher:Multidisciplinary Digital Publishing Institute (MDPI), Volume-8, Issue- 296. August-2024, DOI: <https://doi.org/10.3390/jcs8080296> (ESCI/Scopus Indexed)
5. Shanthala Kollur, ShivaPrakash S, **Jasti Surendra**, G.S. Pradeep Kumar, R. Suresh Kumar, C. Durga Prasad, Pavan Kumar B K, Sandeep Kore, Nusrathulla M, Investigation of corrosion behavior of Cenosphere reinforced iron based composite coatings, Results in Surfaces and Interfaces, Volume-17 (2024), Issue-100300, E-ISSN:2666-8459, September-2024, <https://doi.org/10.1016/j.rsufi.2024.100300> (ESCI/Scopus Indexed)
6. **Vidya Chaparala**, G Ravi Kiran Sastry, P Phani Prasanthi, Enhancing heat transfer performance in forced convective systems using experimental study with crystalline nano cellulose-dispersed H₂O/C₂H₆O₂ nanofluids, Engineering Research Express, Volume-6 (2024) Issue- 035576, ISSN: 2631-8695, September-2024, DOI: <https://doi.org/10.1088/2631-8695/ad78a4>. (ESCI/ Scopus Indexed)
7. Venkatesh, B., Sivakumar, R., Vijayakumar, S. P. S. Satheesh kumar, **M. Naga Swapna Sri**, A. Pradeep, Predict the modelling of cement concrete strength using Taguchi and ANOVA method. Interactions 245, 290 September-2024. E-ISSN:3005-0731, <https://doi.org/10.1007/s10751-024-02133-3> (Scopus Indexed)
8. Rama Krishna Kolluru, **P Phani Prasanthi**, A Swarna Kumari, Moisture-induced mechanical property changes in natural hybrid composites with MWCNT fillers, Advances in Materials and Processing Technologies, Volume-1, Issue-24, November-2024,DOI: <https://doi.org/10.1080/2374068X.2024.2423533> (ESCI/Scopus Indexed)
9. **Somaiah Chowdary Mallampati**, Raghavendra Gujjala, Anupama Ammulu Manne, M. S. R. Niranjana Kumar, Rakesh Kanakam, V. Suresh Babu, Mariana D. Banea, A study on the effect of nanoclay addition on the erosion wear characteristics of S-glass/sisal reinforced hybrid polymer composites, Discover Materials, Volume-4 Issue-82, ISSN:2730-7727, November-2024, <https://doi.org/10.1007/s43939-024-00149-8>, (ESCI/Scopus Indexed)
10. L. Natrayan, **Sd. Abdul Kalam**, Santha SheelaPrabhu Paramasivam Kirubanandan Shanmugam, Bio-synthesis of nano-zero-valent iron using barberry leaf extract: classification and utilization in the processing of methylene blue-polluted water, Discover Applied Sciences,ISSN:3004-9261,December-2024. <https://link.springer.com/article/10.1007/s42452-024-06327-w> (ESCI/Scopus Indexed)
11. Pydi, H. P., **Peyyala, A.**, Naga Swapna Sri, M., Rao, N. S. ., Vijayakumar, S., & Devarajan, D. (2024). Comparative Studies on Micro-Fins Geometry for Fin Efficiency and Effectiveness. Journal of Studies in Science and Engineering, Volume-4 Issue-2, ISSN: 2789-634X, Page:94–104. <https://doi.org/10.53898/josse2024425> (Scopus Indexed)
12. T. Venkateswara Rao; Adina Srinivasa Vara Prasad ; **M. Naga Swapna Sri**; P. Anusha; Deepak Gupta ; S. Vijayakumar ; Hari Prasadarao Pydi ; Nageswararao Cheepurupalli, Multi-response optimization of FSW parameters for Al–Mg–Zn alloys using Box–Behnken design and gray

relational analysis and comparative study with ANFIS technique, AIP Advances 15, 025209 (2025), ISSN: 2158-3226, Volume-15, Issue-2, February-2025, <https://doi.org/10.1063/5.0255376> **(Scopus Indexed)**

13. Sriram Desikan, SP Kalaiselvan, S. Karthikeyan, R. Ramesh babu, Hari Prasadara Pydi, P Anusha and M. Naga Swapna Sri, Taguchi and Artificial Neural Network Approaches for Optimization of Wear Behaviour of AA7178/MOS2/TiB2 Hybrid Composites, ISSN:2212-7976, March-2025, DOI: 10.2174/0122127976357232250227111309. **(Scopus Indexed)**
14. S. Madhankumar, D. Arunkumar, **Ch Mohan Sumanth**, Akhilesh Kumar Singh, M.N.V.S.A. Sivaram Kotha, L. Feroz Ali, Drying kinetics, mathematical modelling and colour analysis of an indirect solar dryer with latent heat storage unit for cucumber drying, Solar Energy, Volume 292, 15 May 2025, 113431, Doi: <https://doi.org/10.1016/j.solener.2025.113431> **(Scopus Indexed)**

OTHER JOURNALS

1. Ch Raghavendra Siva Kumar , **B Raghu Kumar**, Design Of Parabolic Trough Collector And Comparison With Numerical Studies To Examine The Impact Of Nanofluids On The Thermal Performance, Journal of Emerging Technologies and Innovative Research (JETIR), July 2024, Volume 11, Issue 7, ISSN-2349-5162, Pg: i396-i407, DOI: 10.6084/m9.jetir.JETIR2407838 **(Others)**
2. Harsha Bandaru , **Dr. P Phani Prasanthi** , Dr. M.S.R Niranjan Kumar , N.Raghu Ram, Mechanical Characterization of Natural filler mixed polymer matrix Composites, Journal of Emerging Technologies and Innovative Research (JETIR), July 2024, Volume 11, Issue 7, ISSN-2349-5162, Pg:i408-i414, DOI: 10.6084/m9.jetir.JETIR2407839 **(Others)**
3. A. Naga Saikumar , **K. Venkata Rao** , CH. Lakshmi Kanth, Machine Learning Techniques For The Identification Of Machinery Faults Through Vibration Signals, International Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Vol.11, Issue 7, page no.i384-i395, July-2024, DOI :<http://www.jetir.org/papers/JETIR2407837.pdf> **(Others)**
4. **T J Prasanna Kumar**, R Rama Krishna, Sri Sathish, Vinay Vemuri, V Chakri, Wilson Y, Optimization of Angle of Attack for Maximum Aerodynamic Efficiency on Symmetrical Airfoil, International Journal of Research Publication and Reviews, Vol 6, no 2, pp 642-645 February 2025, ISSN 2582-7421. **(Others)**
5. **T J Prasanna Kumar**, V.Pradeep , B .Kiran, R.Sanjay, S.Hemanth, R.Benny, Computational Analysis of Material and Structural Component Effects on the Strength of Semi-Monocoque Structured Aircraft Fuselage, International Journal of Multidisciplinary Research in Science Engineering and technology, Volume 8, Issue 2, February 2025, ISSN: 2582-7219, pp: 645-650, DOI: 10.15680/IJMRSET.2025.0802006.**(Others)**
6. **T J Prasanna Kumar**, SK Gowsi, U Yedukondalu, V Hemanth, T Sriram, T Hari Durga Sri Sai, Computational Study of Airfoil Aerodynamics in Subsonic Flow Using ANSYS Fluent, International Journal of Research Publication and Reviews, Vol 6, no 2, pp 1171-1178 February 2025, ISSN 2582-7421. **(Others)**
7. **T J Prasanna Kumar**, S. Yogendra, Sk. Meera Shareef Y.Rakesh V. Kalyan Sai Ram, V. Bhanu Nagendra, Finite Element Analysis of Wing Rib Structure under Aerodynamic and

Structural Loads, International Journal of Research Publication and Reviews, Vol 6, no 2, pp 1616-1621, February 2025, ISSN 2582-7421. **(Others)**

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CONFERENCE PUBLICATIONS

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1. S. Sathees kumar, S. Seenivasan, I. J. Isaac Premkumar, S. Vijayakumar, **P. Anusha**, A. Pradeep, Analysis of wear mechanisms in AA2024/TiB2 composites under different loads. Interactions ICSIMMA 2024 , from 17th to 18th April-2024- Materials interaction on physical, chemical and mechanical science organized by Kalasalingam Academy of Research and Education Anand Nagar, Krishnankovi, *Conference Proceedings*, Volume-245, Issue-257 (2024), August-2024, E-ISSN:3005-0731, <https://doi.org/10.1007/s10751-024-02102-w> **(Scopus Indexed)**
2. Ch. Nagalakshmi, B. Sriyutha, K. Yamineswari, M. Sriram, A. T. N. V. Prasad, **P. Phani Prasanthi**, Haritha Akkineni, Integrating ANSYS Simulation and Machine Learning Techniques for Thermo-Mechanical Analysis of PCBs. In: Nanda, U., Tripathy, A.K., Sahoo, J.P., Sarkar, M., Li, K.C. (eds) *Advances in Distributed Computing and Machine Learning. ICADCML 2024*. From 5th to 6th January-2024, organized by VIT-AP, Lecture Notes in Networks and Systems, vol 1015, Print ISBN:978-981-97-3522-8, Springer, Singapore. https://doi.org/10.1007/978-981-97-3523-5_24 **(Scopus Indexed)**
3. Seenivasan M, **T J Prasanna Kumar**, Gobikrishnan Udhayakumar, S. Rajesh, M. Bhuvaneswari, L. Feroz Ali, "Forecasting the Material Removal Rate of Inconel 718 Alloy in Electrochemical Machining through Machine Learning Approaches," ICIRIAC 2024, organized by Sri Krishna College of Engineering & Technology, Coimbatore, published in SAE Technical Paper-2024-01-5253, ISSN:2688-3627, January 2025, <https://doi.org/10.4271/2024-01-5253>. **(Scopus Indexed)**
4. **T. J. Prasanna Kumar**; D. Antony Prabu; Gobikrishnan Udhayakumar; S. Rajesh; Shanthi Palaniappan; Aruna Subramanian, "Forecasting the material extraction rate of inconel 625 alloy in micro electrochemical drilling through machine learning approaches", International Conference on Innovations in Robotics, Intelligent Automation and Control

(ICIRIAC-2024) *AIP Conf. Proc.* Volume-3204, Issue-1, 040011 (2025), 28-February-2025, <https://doi.org/10.1063/5.0246162>. **(Scopus Indexed)**

5. **Kode Srividya**, Surendra Karagana, Rihal Dondapati, Rajesh Cherukunedi, Shaik Arshad Ali, Design and Fabrication of Total Emissivity Measuring Apparatus, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
6. Kona Bhavani, V.S.N. Venkata Ramana, **N. Raghu ram**, K. Sri Ram Vikas, Evaluation of Hardness and Wear Characteristics of AA6061-T651 Friction Stir Welded Joints, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
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9. **K. I. Vishnu Vandana**, M.Rajyalakshmi, P.B.Suresh Babu, Dr. P. Siva Nagasree, Performance Study of Alumina Ceramic Tool Inserts During Dry Turning of hardened EN36 Steel Samples, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
10. **E. Kavitha**, LMN. Pavan kalyan, N. Prabhu prakash, L. Sanyu meghna, M. Vamsi Krishna, Topology Optimization for Prosthetic Foot: Enhancing Performance and Comfort, Two-day International Conference on Recent Advances in Mechanical Engineering

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11. **E. Kavitha**, M. Kavya Sree, Ch.Manikanta, J. Satish Babu, B. Prince Prakash, Modelling and Analysis of Cellular Structure Using 3d Printing, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
12. Srinivas Prasad Sanaka, Pulipaka Vanni, **Vemuri Sravani**, Akula Yagna Vijay Kumar, Kakarlamudi Sujin Kumar, Radhik Daram, Experimental Investigation of Temperature Effects on the Performance of PEM Fuel Cells, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
13. **Sravani Vemuri**, Srinivas Prasad Sanaka, Sudhakar Mogili, Durga Prasanna Mannava, CFD Investigation of Ship Propeller Noise Using Large Eddy Simulation, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
14. **P. Anusha**, Sangeeth Meruga, Intelligent Air Conditioning Control Using Real-Time Sensor Data, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
15. **M. Naga Swapna Sri**, P. Anusha, R. Haranath, Evaluation of Carbon Phthalonitrile Composites Made by Resin Transfer Molding, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
16. **P. Anusha**, M. Naga Swapna Sri, Review on Elastocaloric Refrigeration, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6

17. **K. Venkatarao**, Ch. Lakshmi Kanth, T. J. Prasanna Kumar, G. Pavan Kumar, J. Dhanush, P. Sreenivas, K. Kiran Kumar, A. Manoj Kumar, Heat Transfer Enhancement of an Automobile Engine Radiator Using TiO₂/CuO Water Base Nanofluids, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
18. **Ch. Mohan Sumanth**, M. Somaiah Chowdary, T.J. Prasanna Kumar, T. Srinag, N. Raghu Ram, Rajesh.T, Finite Element Analysis (FEA) of Friction Stir Welding (FSW) Using ANSYS, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
19. **T J Prasanna Kumar**, V Kalyan Manohar, I Rohith Sanjay, G Manohar, J Kranthi Kumar, Design Optimization and Fabrication of Two-Wheeler Wind and Rain Shield through Design Thinking Approach, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6
20. **T J Prasanna Kumar**, K Venkata Rao, Ch Lakshmi kanth, SK Chand Mohiddien, B Kiran, Integrated Manufacturing and Testing with Predictive Analytics Using Machine Learning: A Data-Driven Approach to Process Optimization, Two-day International Conference on Recent Advances in Mechanical Engineering –(ICRAMIE-2025), Organized by Dept of Mechanical Engineering, PVPSIT, in association with NIT Warangal from 8th to 9th May 2025, Conference Proceedings ISBN: 978-93-342-1172-6

BOOKS/BOOK CHAPTERS

1. **Somaiah Chowdary Mallampati**, Gujjala Raghavendra, **Niranjan Kumar M. S. R.**, Manne Anupama Ammulu, V. Suresh Babu, 16 - Hybrid composites: a promising approach for potential polymeric composite design, In Woodhead Series in Composites Science and Engineering, Sustainable Fillers /Plasticizers for Polymer Composites, Elsevier Science.Ltd,2025,Pages:415-435,ISBN:9780443156304,
<https://doi.org/10.1016/B978-0-443-15630-4.00016-6>.