



Papers published by Faculty in Journals/Conferences

Academic Year - 2024-25

International Journals (With Impact Factor)	59
International Journals (Scopus)	45
International Journals (WOS)	01
Scopus Indexed International Conferences	20
International Journals (UGC)	04
National Conferences	-
Total	129

International Journal: (With Impact Factor)

1. S. Rama Sree, "Framework for automation of short answer grading based on domain-specific pre-training", Engineering Applications of Artificial Intelligence, Vol.137, Part-A, Nov 2024.

[IF 7.5, SJR 1.75, H- Index 137]Q1

<https://www.sciencedirect.com/science/article/abs/pii/S0952197624013216#:~:text=Our%20framework%20involves%20three%20main,limited%20labeled%20domain%20Dspecific%20data.>

2. Abhishek Kumar Tripathi, "Advancing solar PV panel power prediction: A comparative machine learning approach in fluctuating environmental conditions", Case Studies in Thermal Engineering, Vol.59, July 2024.

[IF 6.8, SJR 1.04, H- Index 72]

<https://www.sciencedirect.com/science/article/pii/S2214157X24004908>

3. Elumalai P.V, "Optimizing Closed Loop Pulsating Heat Pipes (CL-PHPs) using Taguchi method enhancing thermal performance and operational parameters", Case Studies in Thermal Engineering, Vol.58, June 2024.

[IF 6.4, SJR 1.04, H- Index 72]

<https://www.sciencedirect.com/science/article/pii/S2214157X24004568#:~:text=Closed%20Loop%20Pulsating%20Heat%20Pipes,to%20optimization%20enhance%20the%20performance.>

4. Elumalai P.V, “Parameter fine tuning on CRDI engine operated with blends of grape biodiesel and diesel”, Case Studies in Thermal Engineering, Vol.60, Aug 2024.
[IF 6.4, SJR 1.04, H- Index 72] Q1
<https://www.sciencedirect.com/science/article/pii/S2214157X24007329>
5. S.N.S Maruthy Vijay, “Thermal and exergy analysis of solar air heater enhanced with sodium carbonate decahydrate and Magnesium sulfate heptahydrate PCM: Performance evaluation”, Applied Thermal Engineering, Vol.258, Par-A, Jan 2025.
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<https://www.sciencedirect.com/science/article/abs/pii/S1359431124022245>
6. Elumalai P.V, “Split injection timing optimization in ammonia/biodiesel powered by RCCI engine”, Results in Engineering, Vol.23, Sep 2024.
[IF 6.0, SJR 0.79, H- Index 36]Q1
<https://www.sciencedirect.com/science/article/pii/S2590123024008624>
7. Elumalai P.V, “Energy-efficient Vienna rectifier for electric vehicle battery charging stations”, Results in Engineering, Vol.23, Sep 2024.
[IF 6.0, SJR 0.79, H- Index 36] Q1
<https://www.sciencedirect.com/science/article/pii/S2590123024009265>
8. B.S.S. Ganesh Pardhu, “A novel HRMO-AOA approach for a grid integrated wind-solar PV system with a 5-level NPC inverter”, Results in Engineering, Vol.23, Sep 2024
[IF 6.0, SJR 0.79, H- Index 36]Q1
<https://www.sciencedirect.com/science/article/pii/S2590123024008375>
9. N. Nagabhooshanam, “Organic municipal solid waste derived hydrogen production through supercritical water gasification process configured with K₂CO₃/SiO₂: Performance study”, Biomass and Bioenergy, Vol.190, Nov 2024.
[IF 5.8, SJR 1.11, H- Index 207] Q1
<https://www.sciencedirect.com/science/article/abs/pii/S0961953424003325>
10. G. Rama Naidu, “Graph neural network-based multiscale thermal modeling for heterogeneous materials with complex structures”, Thermal Science and Engineering Progress, Vol.55, Oct 2024.
[IF 5.1, SJR 0.94, H- Index 56] Q1
<https://www.sciencedirect.com/science/article/abs/pii/S2451904924006012>

11. V. Ravi Kishore, “Ai-enhanced thermal modeling for integrated process-product-system optimization in zero-defect manufacturing chains”, Thermal Science and Engineering Progress, Vol.55, Oct 2024.

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12. M. Masthan Siva Krishna, “Enhanced efficiency in smart grid energy systems through advanced AI-based thermal modeling”, Thermal Science and Engineering Progress, Vol.55, Aug 2024.

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13. N. Nagabhooshanam, “Optimization of Dissimilar AA5052 and AA2219 Alloy Joints in Friction Stir Welding Using Taguchi Grey Relational Analysis”, Journal of Inorganic and Organometallic Polymers and Materials, Aug 2024

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14. Elumalai P.V, “Improved solar still productivity using PCM and nano- PCM composites integrated energy storage”, Scientific Reports, Vol.14, No.1, July 2024.

[IF 3.8, SJR 0.09, H- Index 315]Q1

<https://www.nature.com/articles/s41598-024-65418-1>

15. S. Rama Sree, “Optimal directed acyclic graph federated learning model for energy-efficient IoT communication networks”, Scientific Reports, Vol.14, No.1, Sep 2024.

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16. R. Uzwal Kiran, “Multi-step fabrication of bioactive Mg–Zn–Dy–AlO₃/HA composites: exploring the synergistic effects of plasma spray and friction stir processing”, Journal of Materials Science, Vol.59, June 2024,

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17. S. Rama sree, “Characterization of vinyl silane–treated areca nut woven fiber and bronze filler toughened polyester composite”, Biomass Conversion and Biorefinery, Sep 2024.

[IF 3.5, SJR 0.6, H- Index 45] Q2

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18. K. Mrudula Devi, & A. Lakshmi Lavanya “Biosynthesis of ZnO nanoparticle from orange fruit peel biomass and its PVA-based composite packaging material: a greener material for suitable packaging”, *Biomass Conversion and Biorefinery*, Sep 2024.
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19. B.S.S. Ganesh Pardhu, “A comprehensive study on energy management, sensitivity analysis, and inertia compliance of feed-in tariff in IEEE bus systems with grid-connected renewable energy sources”, *Heliyon*, Vol.10, No.17, Sep 2024.
[IF 3.4, SJR 0.62, H- Index 88] Q1
<https://www.sciencedirect.com/science/article/pii/S2405844024129581>
20. S Rama Sree, “SPRAG: building and benchmarking a Short Programming-Related Answer Grading dataset”, *International Journal of Data Science and Analytics*, June 2024
[IF 3.4, SJR 0.74, H- Index 31]
<https://link.springer.com/article/10.1007/s41060-024-00576-z#:~:text=While%20much%20research%20focuses%20on,keywords%2C%20and%20no%20explicit%20grammar.>
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[IF 3.1, SJR 0.81, H- Index 110] Q2
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23. A. Lakshmi Lavanya, “Swift and Cost-Effective Detection of Nitrite in Environmental Samples Using Ru@Pt Modified PGE”, *Journal of The Electrochemical Society*, Vol.171, No.10, Oct 2024.
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24. T. Srinivasa Rao, “Enhancing face recognition performance: a comprehensive evaluation of deep learning models and a novel ensemble approach with hyperparameter tuning”, *Soft Computing*, Vol.28, No.20, Oct 2024.

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25. S.N.S. Maruthy Vijay, “Performance investigation of silicon nitride (SiNx) layer doped with twin thin films of gallium and zinc oxide for solar cell”, *Optical and Quantum Electronics*, June 2024.

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26. Pritam Kumar Das, “An extensive review of preparation, stabilization, and application of single and hybrid nanofluids”, *Journal of Thermal Analysis and Calorimetry*, Aug 2024.

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27. S. Neelima, “AI-enhanced predictive maintenance in hybrid roll-to-roll manufacturing integrating multi-sensor data and self-supervised learning”, *The International Journal of Advanced Manufacturing Technology*, Aug 2024.

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31. Ch.S.V.S.S.N. Murthy, “A novel framework for entertainment robots in personalized elderly care using adaptive emotional resonance technologies”, Entertainment Computing, Vol.52, Jan 2025.

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34. Ch. V. Ravi Sankar, “RF MEMS switch optimization using ANN and design of antenna with frequency reconfigurability”, Microsystem Technologies, Aug 2024.

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35. V.V. Kamesh, “Comparative study of structural, opto-electronic properties of Cs₂TiX₆-based single halide double perovskite solar cells: computational and experimental approach”, Physica Scripta, Vol.99, No.10, Sep 2024

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36. J.D. Venkatesh, "Effect of multi-pass overlapping friction stir processing on fatigue behavior of Al-Cu alloy", Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Aug 2024.
[IF 2.5, SJR 0.49, H- Index 47]Q2
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37. Pritam Kumar Das, "Investigation on the adjusting compression ratio and injection timing for a DI diesel engine fueled with policy-recommended B20 fuel", Discover Applied Sciences, Vol.6, No.8, July 2024.
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38. S. Pachaiappan, "Free vibration analysis of FGM beam by numerical analysis", Innovative Infrastructure Solutions, Vol.9, No.8, Aug 2024.
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39. P.S. Ranjit, "Impact of injection pressure on the performance, emissions, and combustion of a common rail direct injection engine fueled with quaternary blends", Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, June 2024
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<https://link.springer.com/article/10.1007/s11277-024-11282-1>

42. P.S. Ranjit, “Experimental investigation of NO_x emission control using carbon nanotube additives and EGR configuration on CRDI engine fueled with ternary fuel”, Biofuels, July 2024.

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45. B. Ramamohana Reddy, “Influence of steel slag on strength and microstructural characteristics of fly ash-based geopolymer concrete”, Multiscale and Multidisciplinary Modeling, Experiments and Design, July 2024.

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