KPR Institute of Engineering and Technology

Department of Electrical and Electronics Engineering

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ACADEMIC YEAR 2025-2026

Publications details-Journals

S.No	Author Name	Title of the Paper	Name of the Journal	Volume No, Issue No, Month & Year	Indexing	Online Link of the paper
1.	Revathi R	Multi-objective optimization framework for enhancing efficiency and sustainability in smart grids	Energy Conversion and Management	Volume 341, 120079 October 2025	SCI	https://doi.org/10.1016/j.enconman.2025.120079
2.	Lalitha B	Carbon-based and metal hydride materials for advanced hydrogen storage: progress, challenges and future directions	Sustainable Energy & Fuels	Volume 9, 5199 - 5217 July 2025	SCI	https://doi.org/10.1039/D5SE00916B
3.	Lalitha B	Design and Performance Analysis of New Seventeen Level Reduced Switch Count Multilevel Inverter	Engineering Journal	Volume 29, Issue 6 July 2025	WoS	https://doi.org/10.4186/ej.2025.29.6.29
4.	Baranilingesan I	Enhanced Energy Utilization Efficiency and Speed Control in Autonomous Electric Vehicles: A Velocity Reinforcement Based Hybrid Approach	International Journal of Control, Automation and Systems	Volume 23, pages 2257–2266, (2025) July 2025	SCI	https://doi.org/10.1007/s12555-024-0713-7
5.	Ravindran S	Modelling, implementation and analysis of double-side slotted axial flux PMGs suitable to small-scale wind energy conversion systems	Scientific Reports	volume:15, pp.20384 July 2025	SCI	https://doi.org/10.1038/s41598-025-08716-6
6.	Chandrika V S	Optimizing photovoltaic performance: a tripartite investigation of phase change material integration	Journal of Materials Science: Materials in Electronics	Volume 36 Issue 25 Pages 1-22 September 2025	SCI	https://link.springer.com/article/10.1007/s10854-025-15730-x

7.	Kamalkumar V	Pioneering Solar-to-Fuel Innovations: Harnessing Artificial Photosynthesis	Journal of the Balkan Tribological Association	Vol. 31, No 5, 878–889 November 2025	Scopus	https://scibulcom.net/en/article/1310-4772_2025_31_5_878-889
8.	Chandrika V S	Design and implementation of solar-grid based charging station for electric vehicle with fault detection method using R-Pi and IoT processor	International Journal of Applied Power Engineering	Vol 14, No 4 December 2025	Scopus	https://ijape.iaescore.com/index.php/IJAPE/article/view/21577
9.	Mohana Sundaram K	Detection of voice and lung pathological signal using Acoustic spectrogram transformers	Journal of Innovative Image Processing	Volume - 7 | Issue - 4 December 2025	Scopus	https://irojournals.com/iroiip/article/pdf/7/4/12
10.	M.Mohanasundaram	The AI-powered soft skills renaissance:cultivating human abilities in the digital era	AI and Ethics	Volume 6, article number 42 (2026) December 2025	Scopus	https://link.springer.com/article/10.1007/s43681-025-00912-4
11.	Ravindran S	Modeling performance and emission factors of diesel engines using biogas from food waste: Experimental analysis and statistical evaluation	Environmental Progress & Sustainable Energy, Wiley	e70245 December 2025	SCI	https://doi.org/10.1002/ep.70245
12.	Chandrika V S	Performance enhancement of solar photovoltaic modules using graphene-enhanced Glauber's salt eutectic phase change material for advanced thermal management	Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy	Volume 2025 December 2025	SCI	https://journals.sagepub.com/doi/abs/10.1177/09576509251410980
13.	Chandrika V S	Performance comparison of synergistic graphene and alumina nanocomposites in Glauber's salt and paraffin PCMs	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Vol 48, No 4 April 2026	SCI	https://link.springer.com/article/10.1007/s40430-025-06278-2
14.	Chandrika V S	Performance enhancement of solar photovoltaic panels using a nano-enhanced phase change material composite under real-time conditions	Journal of Mechanical Science and Technology	Volume 40 April 2026	SCI	https://link.springer.com/article/10.1007/s12206-026-0163-7

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