

Research Paper Publication: Scopus & WoS (2024 onwards)

Publication in International Journals (APA Format)
[1] Pawar, K., et all. (2026). Optimization of Bamboo Fiber Reinforced Polymers for Sustainable Mechanical Applications: A Comparative Analysis of Bioplastics and Traditional Materials. <i>Journal of Composite Material</i> . (Sage Publisher, SCI, SSCI, Scopus Q2) DOI: https://doi.org/10.1177/00219983261472102
[2] Pawar, K., et all. (2026). Mitigation of protection issues arising due to solar PV connected systems: A comprehensive review. <i>Journal of Materials Science: Materials in Engineering</i> . https://doi.org/10.1186/s40712-026-00467-0 (Springer Publisher, Q2 Scopus and E-SCI)
[3] Pawar, K., et all. (2026). Development of Self-Healing Hybrid Natural Fiber Reinforced Polymer Composite for Sustainable Automotive Applications: A Comprehensive Review. <i>Journal of Materials Science: Materials in Engineering</i> . https://doi.org/10.1186/s40712-026-00545-3 (Springer Publisher, Q2 Scopus and E-SCI Index by Web of Science Journal)
[4] Pawar, K. P. et all. (2026). Experimental Investigation of Hybrid Natural Fiber Reinforced Epoxy Composites Using Banana and Sugar Palm Fibers. <i>Journal of Polymer and Composites</i> , 14(Special Issue 1). (E-SCI Index by Web of Science)
[5] Pawar, K. P. et all. (2026). AI-Driven Topology Optimization of Woven Fiber-Reinforced Composite Chassis Structures for Electric Vehicles Under Crash Loading. <i>Journal of Polymer and Composites</i> , 14(Special Issue 1). (E-SCI Index by Web of Science)
[6] Pawar, K. P. et all. (2026). Characterization of bamboo-fiber reinforced geopolymer composites. <i>Journal of Polymer and Composites</i> , 14(Special Issue 1). (E-SCI Index by Web of Science)
[7] Pawar, K. P. et all. (2027). Predictive Traffic Control in Multi-Modal Transportation Networks Using Deep Learning. Accepted for Publication in <i>Sigma Journal of Science & Technology</i> . (2027 Feb. Issue) (Q3 Scopus and E-SCI Index by Web of Science)
[8] Pawar, K. P. et all. (2027). Vision Zero 2.0: AI-Driven Strategies for the Minimization of Road Accidents in Urban Corridors. Accepted for Publication in <i>Sigma Journal of Science & Technology</i> . (2027 Feb. Issue) (Q3 Scopus and E-SCI Index by Web of Science)
[9] Pawar, K. P. et all. (2026). Eco-Efficient Skies: Life Cycle Assessment and Carbon Footprint Minimization of Fiber-Reinforced Polymer Composites in Aerospace Application. <i>Journal of Polymer and Composites</i> . 14(03):147-160 (E-SCI Index by Web of Science)
[10] Pawar, K. P. et all. (2026). Multi-objective Optimization in CNC Turning: A Systematic Review. <i>International Journal of Engineering Trends and Technology</i> (Q4 Scopus Index Journal) Accepted.
[11] Pawar, K. P. et all. (2026). Chlorophyll-Mimicking $\text{Ti}_3\text{C}_2\text{T}_x$ MXene-Conjugated Polymer Nanocomposites: Nature-Inspired Exciton Funneling Architecture for Ultrahigh Photon-to-Electron Conversion in Organic Solar Cells. <i>Journal of Polymer and Composites</i> , 14(Special Issue 1). (E-SCI Index by Web of Science)
[12] Pawar, K.P. et all. (2025). Multi-Criteria Decision Making in CNC Turning Operations: Current Practices and Future Prospects. <i>International Journal of Advanced Research in Science Communication and Technology</i> , Page240-240. DOI10.48175/ijarsct-30637 (Index by Web of Science)
[13] Pawar, K.P. et all. (2025). Analysis and Optimization of Hard Turning Process for AISI M2 Tool Steel to Minimize Residual Stresses: A Review. <i>Journal of Information Systems Engineering and Management</i> . 10(23s). pp.472-480. DOI10.52783/jisem.v10i23s.3719 (Index by Web of Science)
[14] Pawar, K.P. et all. (2025). Analysis and Optimization of Residual Stresses in Hard Turning of AISI M2 Tool Steel Using Taguchi Technique. <i>Journal of Information Systems Engineering</i>

and Management .10(23s). pp.651-662 DOI10.52783/jisem.v10i23s.3762 (Index by Web of Science)
[15] Pawar, K.P. et all. (2025). Comparative Analysis on Developed Optimization Techniques for Reducing Energy Consumption in AI Training and Inference. <i>Journal of Information Systems Engineering and Management</i> . 10(14s). DOI10.52783/jisem.v10i14s.2166 (Index by Web of Science)
[16] Pawar, K.P. et all. (2025). Engineering Hydroponic Farming System using Household Waste Material: A Mini Farming Plant Approach. <i>International Journal of Advanced Research in Science Communication and Technology</i> , pp.322-326. DOI10.48175/ijarsct-23349 (Index by Web of Science)
[17] Sandip Gath et all (2024). <i>Optimizing Distributed Generation Placement in Distribution Systems: A Comparative Study of AI, Machine Learning, And Deep Learning Algorithms. Nanotechnology Perceptions</i> . 20 No. S13 (2024) 200-214. https://doi.org/10.62441/nano-ntp.vi.2472 (Scopus Indexed)
[18] Sandip Gath et all (2024). Advanced Machine Learning Solutions for Optimizing Distributed Generation Placement in Distribution Systems. <i>Nanotechnology Perceptions</i> 20 No. S12 (2024) 727-744. ISSN 1660-6795 https://doi.org/10.62441/nano-ntp.vi.2384 (Scopus Indexed)
Paper Presented at International Conferences
[1] Paper Presented on, "ResNLS: A High-Precision Hybrid Deep Learning Model Leveraging Residual Networks and LSTM for Stock Price Prediction," 2026 <i>IEEE 6th International Conference on Computing, Power, and Communication Technologies (IC2PCT)</i> , Greater Noida, India, 2026, pp. 775-778, doi: 10.1109/IC2PCT68894.2026.11584288. IEEE Conference (Scopus Index)
[2] Paper Presented on, "Sen T-In: A Deep Sentiment-Aware Transformer Model for High-Precision Stock Trend Analysis," 2026 <i>IEEE 6th International Conference on Computing, Power, and Communication Technologies (IC2PCT)</i> , Greater Noida, India, 2026, pp. 796-800, doi: 10.1109/IC2PCT68894.2026.11584490. IEEE Conference (Scopus Index)
[3] Paper Presented on, "Intelligent Battery Management in Electrical Vehicle using NN", at International Conference on Grid and Parallel Computing (ICGPC-2025) organized by St. Peter's Institute for Higher Education and Research, Tamilnadu. Springer Conference (Scopus Index)
[4] Paper Presented on, "Fossa Optimization Technique based MPPT of PV System under Partial Shading Conditions" 2025 <i>IEEE International Conference on Power Electronics and Energy(ICPEE)</i> DOI: 10.1109/ICPEE65973.2025.11410877 Electronic ISBN:979-8-3315-6637-1 ISBN: 979-8-3315-6638-8 IEEE Conference (Scopus Index)
[5] Paper Presented on "Osprey Optimization Algorithm for MPPT of PV System with SEPIC Converter under Partial Shading Conditions". 2025 <i>IEEE 2nd International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST)</i> DOI: 10.1109/GIEST66547.2025.11387425 Electronic ISBN:979-8-3315-7436-9 ISBN:979-8-3315-7437-6 IEEE Conference (Scopus Index)
[6] Paper Presented on" Adaptive Switched - Inductor - Capacitor Based Boost Converter for Enabling High - Gain PV Microgrids"2026 3 rd International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC) DOI: 10.1109/AKGEC68790.2026.11485866 Electronic ISBN: 979-8-3315-8094-0 ISBN:979-8-3315-8095-7 IEEE Conference (Scopus Index)
[7] Paper Presented on "Intelligent Threat Detection and Response Framework for Smart Grid Infrastructure Using Advanced Language Models" 2026 3rd International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC) DOI: 10.1109/AKGEC68790.2026.11485667 Electronic ISBN: 979-8-3315-8094-0 ISBN: 979-8-3315-8095-7 IEEE Conference (Scopus Index)
Book Publications

[1] Krupal Pawar, “ <i>Fundamentals of Composite Materials</i> ”, Scholar Press Publication, Germany, 2023. ISBN: 978-620-5-52468-8.
[2] Krupal Pawar, Vasudha Patil, Puja Gholap, “ <i>Mastering Research: A Comprehensive Guide for Beginners and Experts</i> ”, Grin International Publication, Munch, Germany, 2025. ISBN: 978-338-911-5268.
[3] Vasudha Patil, Krupal Pawar, “ <i>A Textbook on Universal Human Values and Professional Ethics</i> ” as per Savitribai Phule Pune University Syllabus, VT International Press Publication, India, 2025. ISBN: 978-620-0-69601-4.
[4] Vasudha Patil, Krupal Pawar, “ <i>A Textbook on Digital Marketing</i> ”, as per Savitribai Phule Pune University Syllabus, VT International Press Publication, India, 2025. ISBN: 978-620-069-6762.
[5] Vasudha Patil, Krupal Pawar, “ <i>A Textbook on Project Management</i> ”, as per Savitribai Phule Pune University Syllabus, VT International Press Publication, India, 2026. ISBN: 978-81-994691-9-8.
[6] Rajeshkumar Sambhe, K Rama Narasimha, Krupal Pawar, “Sensing the Future: AI and IoT-Driven Predictive Maintenance for Electric Vehicle”, VT International Press Publication, India, 2026. ISBN: 978-81-994691-6-7
Book Chapter Publication
[1] Vasudha Patil, Krupal Pawar, “ <i>Introduction to Value Education</i> ”, Grin International Publication, Munch, Germany, 2025. ISBN:978-338-915-2195
[2] Vasudha Patil, Krupal Pawar, “ <i>Harmony in the Human Being</i> ”, Grin International Publication, Munch, Germany, 2025. ISBN:978-338-915-2225
[3] Vasudha Patil, Krupal Pawar, “ <i>Harmony in the Family and Society</i> ”, Grin International Publication, Munch, Germany, 2025. ISBN:978-338-915-2249
[4] Vasudha Patil, Krupal Pawar, “ <i>Harmony in the Nature (Existence)</i> ”, Grin International Publication, Munch, Germany, 2025. ISBN: 978-338-915-2263
[5] Nanda Wagh, Pallavi Rahinj, “Towards secure and privacy preserving neuroimaging: A federated deep learning framework”, in IIP book series, advanced medical image processing and secure authentication of NIFTI Nueroimaging data,2026. ISBN: 978-93-7020-529-1