



University of Central Punjab, Lahore

Faculty of Engineering (FOE) - 2024

▪ Journal Publications (January-December, 2024)

Sr. No.	Faculty Member's Name	Publication Title	Journal	Category	Impact Factor	Year
1.	Dr Muhammad Awais Shafique	Signal control for overflow prevention at intersections using partial connected vehicle data	Transportmetrica A: Transport Science	W	3.6	2024
2.	Dr Muhammad Awais Shafique	Improving ridership by predicting train occupancy levels	Journal of Public Transportation	W	2	2024
3.	Dr Muhammad Awais Shafique	Collision-free Merging Control via Trajectory Optimization for Connected and Autonomous Vehicles	Transportation Research Record	W	1.6	2024

4.	Dr Muhammad Awais Shafique	Comparative analysis of alternative fuels and powertrains for goods transport vehicles: A case study of Catalonia, Spain	Pakistan Journal of Engineering and Applied Sciences	Y	Non-Impact Factor	2024
5.	Dr Muhammad Awais Shafique	Developing a Vehicle Selection Procedure for Logistic Operators of Catalonia, Spain	Pakistan Journal of Engineering and Applied Sciences	Y	Non-Impact Factor	2024
6.	Dr Riaz Ahmad Rana	A novel proactive frequency control based on -DoF-TMPC-1+PI-FOPI for a high order power system with communication delays and uncertainties	Computers and Electrical Engineering	W	4	2024
7.	Dr Sadaf Zeeshan	A review of major trends, opportunities, and technical challenges in biodiesel production from waste sources	Energy Conversion and Management: X	W	7.1	2024
8.	Dr Sadaf Zeeshan	In-Depth Evaluation of Automated Fruit Harvesting in Unstructured Environment for Improved Robot Design	Machines	W	2.1	2024
9.	Dr Muhammad Babur	Divergent Path: Isolating Land Use and Climate Change Impact on River Runoff	Frontiers in Environmental Science	W	3.3	2024

10.	Dr Muhammad Babur	Impact of microplastics on soil (physical and chemical) properties, soil biological properties/soil biota, and response of plants to it: a review	International Journal of Environmental Science and Technology	W	3	2024
11.	Dr Muhammad Babur	Boosting-based ensemble machine learning models for predicting unconfined compressive strength of geopolymer stabilized clayey soil	Scientific Reports	W	3.8	2024
12.	Dr. Muhammad Kashif	BPNN model-based AI for the estimation of soot data from flame luminosity emissions in H ₂ /N ₂ diluted ethylene laminar diffusion flames	Experimental Thermal and Fluid Science	W	3.2	2024
13.	Dr. Ali Faisal Murtaza	State-Space Modeling, Design, and Analysis of the DC-DC Converters for PV Application: A Review	Sustainability	W	3.9	2024
14.	Dr. Muhammad Kashif	Simultaneous soot parameters fields predictions accuracy improvements in laminar sooting flames from soot radiation measurements — a multi-task learning approach	Measurement	X	5.2	2024
15.	Dr. Ali Faisal Murtaza	An improved 0.8VOC model based global maximum power point tracking algorithm for photovoltaic system	International Journal of Circuit Theory and Applications	X	2.3	2024

16.	Nabeel Khalid	Critical analysis of Parkinson's disease detection using EEG sub-bands and gated recurrent unit	Engineering Science and Technology, an International Journal	W	5.1	2024
17.	Dr Rizwan Shad	Techno-economic analysis and optimization of 50 MWe linear fresnel reflector solar thermal power plant for different climatic conditions	Case Studies in Thermal Engineering	W	6.4	2024

▪ Conference & Miscellaneous Publications

Sr. No.	Faculty Member's Name	Paper Title/Book Chapter	Conference Title/Book	Year
1.	Engr. Burhan Ahmad	Structural Engineering Applications Using Artificial Intelligence and Machine Learning: A Review	International Journal of Advanced Natural Sciences and Engineering Researches	2024
2.	Engr. Burhan Ahmad	Introduction to Artificial Intelligence and Machine Learning Algorithms: A Review. International Journal of Advanced Natural Sciences and Engineering Researches	International Journal of Advanced Natural Sciences and Engineering Researches	2024
3.	Engr. Burhan Ahmad	Structural Insulated Panels (SIPs) in Construction; Energy Efficiency, Seismic Performance and Sustainability: A Review	International Journal of Advanced Natural Sciences and Engineering Researches	2024
4.	Engr. Burhan Ahmad	Enhancing Energy Efficiency of Existing High-Rise Buildings: A Comprehensive Review	International Journal of Advanced Natural Sciences and Engineering Researches	2024
5.	Engr. Burhan Ahmad	Promoting Energy Efficiency and Sustainability in High-Rise Buildings: A Critical Review	International Journal of Advanced Natural Sciences and Engineering Researches	2024