Muhammad Umair Ali

List of Publications by Year
in descending order

41 papers	1,132 citations	567281	395702
		15 h-index	33 g-index

41 all docs	41 docs citations	41 times ranked	888 citing authors

#	Article	IF	Citations
1	Towards a Smarter Battery Management System for Electric Vehicle Applications: A Critical Review of Lithium-Ion Battery State of Charge Estimation. Energies, 2019, 12, 446.	3.1	255
2	A comprehensive review on inverter topologies and control strategies for grid connected photovoltaic system. Renewable and Sustainable Energy Reviews, 2018, 94, 1120-1141.	16.4	197
3	Brain Tumor/Mass Classification Framework Using Magnetic-Resonance-Imaging-Based Isolated and Developed Transfer Deep-Learning Model. Sensors, 2022, 22, 372.	3.8	84
4	A machine learning framework to identify the hotspot in photovoltaic module using infrared thermography. Solar Energy, 2020, 208, 643-651.	6.1	80
5	A Real-Time Bi-Adaptive Controller-Based Energy Management System for Battery–Supercapacitor Hybrid Electric Vehicles. Energies, 2019, 12, 4662.	3.1	44
6	A Novel Supercapacitor/Lithium-Ion Hybrid Energy System with a Fuzzy Logic-Controlled Fast Charging and Intelligent Energy Management System. Electronics (Switzerland), 2018, 7, 63.	3.1	39
7	A Real-Time Simulink Interfaced Fast-Charging Methodology of Lithium-Ion Batteries under Temperature Feedback with Fuzzy Logic Control. Energies, 2018, 11, 1122.	3.1	38
8	Early hotspot detection in photovoltaic modules using color image descriptors: An infrared thermography study. International Journal of Energy Research, 2022, 46, 774-785.	4.5	36
9	Online Remaining Useful Life Prediction for Lithium-Ion Batteries Using Partial Discharge Data Features. Energies, 2019, 12, 4366.	3.1	33
10	Dual Battery Storage System: An Optimized Strategy for the Utilization of Renewable Photovoltaic Energy in the United Kingdom. Electronics (Switzerland), 2018, 7, 177.	3.1	31
11	A Lagrange multiplier and sigma point Kalman filter based fused methodology for online state of charge estimation of lithium-ion batteries. Journal of Energy Storage, 2021, 41, 102843.	8.1	29
12	Photovoltaic Panels Classification Using Isolated and Transfer Learned Deep Neural Models Using Infrared Thermographic Images. Sensors, 2021, 21, 5668.	3.8	28
13	An Online Data-Driven Model Identification and Adaptive State of Charge Estimation Approach for Lithium-ion-Batteries Using the Lagrange Multiplier Method. Energies, 2018, 11, 2940.	3.1	25
14	An Optimized Methodology for a Hybrid Photo-Voltaic and Energy Storage System Connected to a Low-Voltage Grid. Electronics (Switzerland), 2019, 8, 176.	3.1	24
15	An Optimization-Based Strategy for Solving Optimal Power Flow Problems in a Power System Integrated with Stochastic Solar and Wind Power Energy. Applied Sciences (Switzerland), 2021, 11, 6883.	2.5	23
16	Effect of Sensors Sensitivity on Lithium-Ion Battery Modeled Parameters and State of Charge: A Comparative Study. Electronics (Switzerland), 2019, 8, 709.	3.1	15
17	Detection of Exceptional Malware Variants Using Deep Boosted Feature Spaces and Machine Learning. Applied Sciences (Switzerland), 2021, 11, 10464.	2.5	15
18	Design of a Building-Integrated Photovoltaic System with a Novel Bi-Reflector PV System (BRPVS) and Optimal Control Mechanism: An Experimental Study. Electronics (Switzerland), 2018, 7, 119.	3.1	13

#	Article	IF	Citations
19	Tracking of a Fixed-Shape Moving Object Based on the Gradient Descent Method. Sensors, 2022, 22, 1098.	3.8	13
20	High Frequency Transformer's Parasitic Capacitance Minimization for Photovoltaic (PV) High-Frequency Link-Based Medium Voltage (MV) Inverter. Electronics (Switzerland), 2018, 7, 142.	3.1	12
21	Semiactive Hybrid Energy Management System: A Solution for Electric Wheelchairs. Electronics (Switzerland), 2019, 8, 345.	3.1	11
22	Recognition and Tracking of Objects in a Clustered Remote Scene Environment. Computers, Materials and Continua, 2022, 70, 1699-1719.	1.9	9
23	Indoor and Outdoor Performance Study of Metallic Zinc Particles in Black Paint to Improve Solar Absorption for Solar Still Application. Coatings, 2021, 11, 536.	2.6	8
24	Improved Ablative Properties of Nanodiamond-Reinforced Carbon Fiber–Epoxy Matrix Composites. Polymers, 2021, 13, 2035.	4.5	8
25	Kernel recursive least square tracker and long-short term memory ensemble based battery health prognostic model. IScience, 2021, 24, 103286.	4.1	8
26	A Hybrid Data-Driven Approach for Multistep Ahead Prediction of State of Health and Remaining Useful Life of Lithium-Ion Batteries. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	8
27	Chaotic-based particle swarm optimization algorithm for optimal PID tuning in automatic voltage regulator systems. Electrical Engineering & Electromechanics, 2021, , 50-59.	0.6	7
28	Quintessential strategy to operate photovoltaic system coupled with dual battery storage and grid connection. International Journal of Energy Research, 2021, 45, 21140.	4.5	7
29	A Systematic Indoor and Outdoor Study of the Effect of Particle Size and Concentration of TiO2 in Improving Solar Absorption for Solar Still Application. Frontiers in Materials, 2021, 8, .	2.4	6
30	An adaptive state of charge estimator for lithium‐ion batteries. Energy Science and Engineering, 2022, 10, 2333-2347.	4.0	6
31	Visual Vocabulary Based Photovoltaic Health Monitoring System Using Infrared Thermography. IEEE Access, 2022, 10, 14409-14417.	4.2	4
32	A Game-Theoretic Approach for Electric Power Distribution during Power Shortage: A Case Study in Pakistan. Applied Sciences (Switzerland), 2021, 11, 5084.	2.5	3
33	Prediction of the Ultimate Strength of Notched and Unnotched IM7/977-3 Laminated Composites Using a Micromechanics Approach. Polymers, 2021, 13, 3491.	4.5	3
34	Addressing Social Inequality and Improper Water Distribution in Cities: A Case Study of Karachi, Pakistan. Land, 2021, 10, 1278.	2.9	3
35	Experimental and Numerical Investigation of Effect of Static and Fatigue Loading on Behavior of Different Double Strap Adhesive Joint Configurations in Fiber Metal Laminates. Materials, 2022, 15, 1840.	2.9	2
36	Robust Controller for Pursuing Trajectory and Force Estimations of a Bilateral Tele-Operated Hydraulic Manipulator. Remote Sensing, 2021, 13, 1648.	4.0	1

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37	Optimization of Correlation Filters Using Extended Particle Swarm Optimization Technique. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	1.3	1
38	Influence of load-shedding and night on SiR insulator environmental aging under AC test voltages. SN Applied Sciences, 2021, 3, 1.	2.9	1
39	Lag Synchronization of Noisy and Nonnoisy Multiple Neurobiological Coupled FitzHughâ€"Nagumo Networks with and without Delayed Coupling. Computational Intelligence and Neuroscience, 2022, 2022, 1-23.	1.7	1
40	Synchronization Analysis of Multiple FitzHugh-Nagumo Noisy and Nonnoisy Neurobiological Networks. Mathematical Problems in Engineering, 2022, 2022, 1-23.	1.1	1
41	An Asymmetric Bargaining Model for Natural-Gas Distribution. Applied Sciences (Switzerland), 2022, 12, 5677.	2.5	0