

# Muhammad Umair Ali

## List of Publications by Year in descending order

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41  
papers

1,132  
citations

643344

15  
h-index

445137

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g-index

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41  
docs citations

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times ranked

1001  
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. <i>Energies</i> , 2019, 12, 446.	1.6	255
2	A comprehensive review on inverter topologies and control strategies for grid connected photovoltaic system. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 1120-1141.	8.2	197
3	Brain Tumor/Mass Classification Framework Using Magnetic-Resonance-Imaging-Based Isolated and Developed Transfer Deep-Learning Model. <i>Sensors</i> , 2022, 22, 372.	2.1	84
4	A machine learning framework to identify the hotspot in photovoltaic module using infrared thermography. <i>Solar Energy</i> , 2020, 208, 643-651.	2.9	80
5	A Real-Time Bi-Adaptive Controller-Based Energy Management System for Batteryâ€“Supercapacitor Hybrid Electric Vehicles. <i>Energies</i> , 2019, 12, 4662.	1.6	44
6	A Novel Supercapacitor/Lithium-Ion Hybrid Energy System with a Fuzzy Logic-Controlled Fast Charging and Intelligent Energy Management System. <i>Electronics (Switzerland)</i> , 2018, 7, 63.	1.8	39
7	A Real-Time Simulink Interfaced Fast-Charging Methodology of Lithium-Ion Batteries under Temperature Feedback with Fuzzy Logic Control. <i>Energies</i> , 2018, 11, 1122.	1.6	38
8	Early hotspot detection in photovoltaic modules using color image descriptors: An infrared thermography study. <i>International Journal of Energy Research</i> , 2022, 46, 774-785.	2.2	36
9	Online Remaining Useful Life Prediction for Lithium-Ion Batteries Using Partial Discharge Data Features. <i>Energies</i> , 2019, 12, 4366.	1.6	33
10	Dual Battery Storage System: An Optimized Strategy for the Utilization of Renewable Photovoltaic Energy in the United Kingdom. <i>Electronics (Switzerland)</i> , 2018, 7, 177.	1.8	31
11	A Lagrange multiplier and sigma point Kalman filter based fused methodology for online state of charge estimation of lithium-ion batteries. <i>Journal of Energy Storage</i> , 2021, 41, 102843.	3.9	29
12	Photovoltaic Panels Classification Using Isolated and Transfer Learned Deep Neural Models Using Infrared Thermographic Images. <i>Sensors</i> , 2021, 21, 5668.	2.1	28
13	An Online Data-Driven Model Identification and Adaptive State of Charge Estimation Approach for Lithium-ion-Batteries Using the Lagrange Multiplier Method. <i>Energies</i> , 2018, 11, 2940.	1.6	25
14	An Optimized Methodology for a Hybrid Photo-Voltaic and Energy Storage System Connected to a Low-Voltage Grid. <i>Electronics (Switzerland)</i> , 2019, 8, 176.	1.8	24
15	An Optimization-Based Strategy for Solving Optimal Power Flow Problems in a Power System Integrated with Stochastic Solar and Wind Power Energy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6883.	1.3	23
16	Effect of Sensors Sensitivity on Lithium-Ion Battery Modeled Parameters and State of Charge: A Comparative Study. <i>Electronics (Switzerland)</i> , 2019, 8, 709.	1.8	15
17	Detection of Exceptional Malware Variants Using Deep Boosted Feature Spaces and Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10464.	1.3	15
18	Design of a Building-Integrated Photovoltaic System with a Novel Bi-Reflector PV System (BRPVS) and Optimal Control Mechanism: An Experimental Study. <i>Electronics (Switzerland)</i> , 2018, 7, 119.	1.8	13

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19	Tracking of a Fixed-Shape Moving Object Based on the Gradient Descent Method. <i>Sensors</i> , 2022, 22, 1098.	2.1	13
20	High Frequency Transformer's Parasitic Capacitance Minimization for Photovoltaic (PV) High-Frequency Link-Based Medium Voltage (MV) Inverter. <i>Electronics (Switzerland)</i> , 2018, 7, 142.	1.8	12
21	Semiactive Hybrid Energy Management System: A Solution for Electric Wheelchairs. <i>Electronics (Switzerland)</i> , 2019, 8, 345.	1.8	11
22	Recognition and Tracking of Objects in a Clustered Remote Scene Environment. <i>Computers, Materials and Continua</i> , 2022, 70, 1699-1719.	1.5	9
23	Indoor and Outdoor Performance Study of Metallic Zinc Particles in Black Paint to Improve Solar Absorption for Solar Still Application. <i>Coatings</i> , 2021, 11, 536.	1.2	8
24	Improved Ablative Properties of Nanodiamond-Reinforced Carbon Fiber-Epoxy Matrix Composites. <i>Polymers</i> , 2021, 13, 2035.	2.0	8
25	Kernel recursive least square tracker and long-short term memory ensemble based battery health prognostic model. <i>IScience</i> , 2021, 24, 103286.	1.9	8
26	A Hybrid Data-Driven Approach for Multistep Ahead Prediction of State of Health and Remaining Useful Life of Lithium-Ion Batteries. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-14.	1.1	8
27	Chaotic-based particle swarm optimization algorithm for optimal PID tuning in automatic voltage regulator systems. <i>Electrical Engineering &amp; Electromechanics</i> , 2021, , 50-59.	0.4	7
28	Quintessential strategy to operate photovoltaic system coupled with dual battery storage and grid connection. <i>International Journal of Energy Research</i> , 2021, 45, 21140.	2.2	7
29	A Systematic Indoor and Outdoor Study of the Effect of Particle Size and Concentration of TiO <sub>2</sub> in Improving Solar Absorption for Solar Still Application. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	6
30	An adaptive state of charge estimator for lithium-ion batteries. <i>Energy Science and Engineering</i> , 2022, 10, 2333-2347.	1.9	6
31	Visual Vocabulary Based Photovoltaic Health Monitoring System Using Infrared Thermography. <i>IEEE Access</i> , 2022, 10, 14409-14417.	2.6	4
32	A Game-Theoretic Approach for Electric Power Distribution during Power Shortage: A Case Study in Pakistan. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5084.	1.3	3
33	Prediction of the Ultimate Strength of Notched and Unnotched IM7/977-3 Laminated Composites Using a Micromechanics Approach. <i>Polymers</i> , 2021, 13, 3491.	2.0	3
34	Addressing Social Inequality and Improper Water Distribution in Cities: A Case Study of Karachi, Pakistan. <i>Land</i> , 2021, 10, 1278.	1.2	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. <i>Materials</i> , 2022, 15, 1840.	1.3	2
36	Robust Controller for Pursuing Trajectory and Force Estimations of a Bilateral Tele-Operated Hydraulic Manipulator. <i>Remote Sensing</i> , 2021, 13, 1648.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Optimization of Correlation Filters Using Extended Particle Swarm Optimization Technique. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	0.7	1
38	Influence of load-shedding and night on SiR insulator environmental aging under AC test voltages. SN Applied Sciences, 2021, 3, 1.	1.5	1
39	Lag Synchronization of Noisy and Nonnoisy Multiple Neurobiological Coupled FitzHugh-Nagumo Networks with and without Delayed Coupling. Computational Intelligence and Neuroscience, 2022, 2022, 1-23.	1.1	1
40	Synchronization Analysis of Multiple FitzHugh-Nagumo Noisy and Nonnoisy Neurobiological Networks. Mathematical Problems in Engineering, 2022, 2022, 1-23.	0.6	1
41	An Asymmetric Bargaining Model for Natural-Gas Distribution. Applied Sciences (Switzerland), 2022, 12, 5677.	1.3	0