Akhtar Hussain

List of Publications by Year in Descending Order

63 papers	1,688 citations	20 h-index	40 g-index
70 ext. papers	2,188 ext. citations	5 avg, IF	5.96 L-index

#	Paper	IF	Citations
63	Reliability-as-a-Service Usage of Electric Vehicles: Suitability Analysis for Different Types of Buildings. *Energies*, **2022**, 15, 665	3.1	2
62	Fairness and Utilitarianism in Allocating Energy to EVs during Power Contingencies Using Modified Division Rules. *IEEE Transactions on Sustainable Energy*, **2022**, 1-1	8.2	1
61	Resilience Enhancement Strategies For and Through Electric Vehicles. *Sustainable Cities and Society*, **2022**, 80, 103788	10.1	4
60	A Dynamic Internal Trading Price Strategy for Networked Microgrids: A Deep Reinforcement Learning Based Game-Theoretic Approach. *IEEE Transactions on Smart Grid*, **2022**, 1-1	10.7	1
59	Deep reinforcement learning-based operation of fast charging stations coupled with energy storage system. *Electric Power Systems Research*, **2022**, 210, 108087	3.5	1
58	Evaluation of Multi-Objective Optimization Techniques for Resilience Enhancement of Electric Vehicles. *Electronics (Switzerland)*, **2021**, 10, 3030	2.6	2
57	Optimal Operation of Networked Microgrids for Enhancing Resilience Using Mobile Electric Vehicles. *Energies*, **2021**, 14, 142	3.1	8
56	Harmonic Analysis of Grid-Connected Solar PV Systems with Nonlinear Household Loads in Low-Voltage Distribution Networks. *Sustainability*, **2021**, 13, 3709	3.6	8
55	Optimal Sizing of Energy Storage System for Operation of Wind Farms Considering Grid-Code Constraints. *Energies*, **2021**, 14, 5478	3.1	0
54	EV Prioritization and Power Allocation During Outages: A Lexicographic Method-Based Multiobjective Optimization Approach. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2474-2487	7.6	10
53	Multi-Objective Stochastic Optimization for Determining Set-Point of Wind Farm System. *Sustainability*, **2021**, 13, 624	3.6	3
52	Optimal Sizing of Battery Energy Storage System in a Fast EV Charging Station Considering Power Outages. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 453-463	7.6	37
51	Consensus Algorithm-Based Distributed Operation of Microgrids During Grid-Connected and Islanded Modes. *IEEE Access*, **2020**, 8, 78151-78165	3.5	6
50	Stationary Energy Storage System for Fast EV Charging Stations: Optimality Analysis and Results Validation. *Energies*, **2020**, 13, 230	3.1	7
49	Goal-Programming-Based Multi-Objective Optimization in Off-Grid Microgrids. *Sustainability*, **2020**, 12, 8119	3.6	6
48	Analytical Hybrid Particle Swarm Optimization Algorithm for Optimal Siting and Sizing of Distributed Generation in Smart Grid. *Journal of Modern Power Systems and Clean Energy*, **2020**, 8, 1221-1230	4	6
47	. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2268-2279	11.9	17

46	. *IEEE Transactions on Smart Grid*, **2020**, 11, 457-469	10.7	64
45	Impact Analysis of Survivability-Oriented Demand Response on Islanded Operation of Networked Microgrids with High Penetration of Renewables. *Energies*, **2019**, 12, 452	3.1	12
44	Heuristic optimisation-based sizing and siting of DGs for enhancing resiliency of autonomous microgrid networks. *IET Smart Grid*, **2019**, 2, 269-282	2.7	6
43	Optimal Operation of Building Microgrids with Rooftop Greenhouse Under Component Outages in Islanded Mode. *Energies*, **2019**, 12, 1930	3.1	
42	Q-Learning-Based Operation Strategy for Community Battery Energy Storage System (CBESS) in Microgrid System. *Energies*, **2019**, 12, 1789	3.1	15
41	An Energy Management System With Optimum Reserve Power Procurement Function for Microgrid Resilience Improvement. *IEEE Access*, **2019**, 7, 42577-42585	3.5	23
40	An internal trading strategy for optimal energy management of combined cooling, heat and power in building microgrids. *Applied Energy*, **2019**, 239, 536-548	10.7	40
39	Optimal Operation of Wind Farm for Reducing Power Deviation Considering Grid-Code Constraints and Events. *IEEE Access*, **2019**, 7, 139058-139068	3.5	7
38	Microgrids as a resilience resource and strategies used by microgrids for enhancing resilience. *Applied Energy*, **2019**, 240, 56-72	10.7	171
37	Welfare Maximization-Based Distributed Demand Response for Islanded Multi-Microgrid Networks Using Diffusion Strategy. *Energies*, **2019**, 12, 3701	3.1	7
36	Multi-Objective Optimization for Determining Trade-Off between Output Power and Power Fluctuations in Wind Farm System. *Energies*, **2019**, 12, 4242	3.1	4
35	Hybrid Energy Management System for Operation of Wind Farm System Considering Grid-Code Constraints. *Energies*, **2019**, 12, 4672	3.1	2
34	Stationary Energy Storage System for Fast EV Charging Stations: Simultaneous Sizing of Battery and Converter. *Energies*, **2019**, 12, 4516	3.1	13
33	Limitations in Energy Management Systems: A Case Study for Resilient Interconnected Microgrids. *IEEE Transactions on Smart Grid*, **2019**, 10, 5675-5685	10.7	11
32	Impact of Uncertainties on Resilient Operation of Microgrids: A Data-Driven Approach. *IEEE Access*, **2019**, 7, 14924-14937	3.5	36
31	. *IEEE Transactions on Smart Grid*, **2019**, 10, 204-215	10.7	77
30	. *IEEE Transactions on Smart Grid*, **2019**, 10, 3474-3485	10.7	14
29	Robust Optimal Operation of AC/DC Hybrid Microgrids Under Market Price Uncertainties. *IEEE Access*, **2018**, 6, 2654-2667	3.5	55

28	. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1636-1647	8.2	15
27	A Multiagent-Based Hierarchical Energy Management Strategy for Multi-Microgrids Considering Adjustable Power and Demand Response. *IEEE Transactions on Smart Grid*, **2018**, 9, 1323-1333	10.7	177
26	A Resilient and Privacy-Preserving Energy Management Strategy for Networked Microgrids. *IEEE Transactions on Smart Grid*, **2018**, 9, 2127-2139	10.7	115
25	Impact of Demand Response Programs on Optimal Operation of Multi-Microgrid System. *Energies*, **2018**, 11, 1452	3.1	24
24	A standards-based approach for Auto-drawing single line diagram of multivendor smart distribution systems. *International Journal of Electrical Power and Energy Systems*, **2018**, 96, 357-367	5.1	5
23	Optimal Energy Management of Building Microgrid Networks in Islanded Mode Considering Adjustable Power and Component Outages. *Energies*, **2018**, 11, 2351	3.1	7
22	Adaptive Robust Optimization-Based Optimal Operation of Microgrids Considering Uncertainties in Arrival and Departure Times of Electric Vehicles. *Energies*, **2018**, 11, 2646	3.1	12
21	A Proactive and Survivability-Constrained Operation Strategy for Enhancing Resilience of Microgrids Using Energy Storage System. *IEEE Access*, **2018**, 6, 75495-75507	3.5	42
20	A Multi-Agent System-Based Approach for Optimal Operation of Building Microgrids with Rooftop Greenhouse. *Energies*, **2018**, 11, 1876	3.1	6
19	Emerging renewable and sustainable energy technologies: State of the art. *Renewable and Sustainable Energy Reviews*, **2017**, 71, 12-28	16.2	261
18	Optimal siting and sizing of tri-generation equipment for developing an autonomous community microgrid considering uncertainties. *Sustainable Cities and Society*, **2017**, 32, 318-330	10.1	35
17	Optimal operation of hybrid microgrids for enhancing resiliency considering feasible islanding and survivability. *IET Renewable Power Generation*, **2017**, 11, 846-857	2.9	60
16	Optimal Operation of Microgrids Considering Auto-Configuration Function Using Multiagent System. *Energies*, **2017**, 10, 1484	3.1	23
15	Fuzzy Logic-Based Operation of Battery Energy Storage Systems (BESSs) for Enhancing the Resiliency of Hybrid Microgrids. *Energies*, **2017**, 10, 271	3.1	27
14	Optimal Energy Management of Combined Cooling, Heat and Power in Different Demand Type Buildings Considering Seasonal Demand Variations. *Energies*, **2017**, 10, 789	3.1	20
13	Impact Analysis of Demand Response Intensity and Energy Storage Size on Operation of Networked Microgrids. *Energies*, **2017**, 10, 882	3.1	12
12	Diffusion Strategy-Based Distributed Operation of Microgrids Using Multiagent System. *Energies*, **2017**, 10, 903	3.1	16
11	Optimal Operation of Tri-Generation Microgrids Considering Demand Uncertainties. *International Journal of Smart Home*, **2016**, 10, 131-144	0	9

10	An Optimal Energy Management Strategy for Thermally Networked Microgrids in Grid-Connected Mode. *International Journal of Smart Home*, **2016**, 10, 239-258	0	5
9	Demand Bidding and Real-Time Pricing-Based Optimal Operation of Multi-Microgrids. *International Journal of Smart Home*, **2016**, 10, 193-208	0	6
8	A Hybrid Framework for Adaptive Protection of Microgrids Based on IEC 61850. *International Journal of Smart Home*, **2016**, 10, 285-296	0	13
7	Robust Optimization-Based Scheduling of Multi-Microgrids Considering Uncertainties. *Energies*, **2016**, 9, 278	3.1	63
6	A Survey on Particle Swarm Optimization for Use in Distributed Generation Placement and Sizing. *MATEC Web of Conferences*, **2016**, 70, 10013	0.3	1
5	N-version programming-based protection scheme for microgrids: A multi-agent system based approach. *Sustainable Energy, Grids and Networks*, **2016**, 6, 35-45	3.6	13
4	An expert system for acoustic diagnosis of power circuit breakers and on-load tap changers. *Expert Systems With Applications*, **2015**, 42, 9426-9433	7.8	32
3	A Novel Algorithm for Reducing Restoration Time in Smart Distribution Systems Utilizing Reclosing Dead Time. *Journal of Electrical Engineering and Technology*, **2014**, 9, 1805-1811	1.4	6
2	Line Security Evaluation of WANS Considering Protectability of Relays and Vulnerability of Lines. *Journal of Electrical Engineering and Technology*, **2014**, 9, 1864-1872	1.4	3
1	An Algorithm to Enhance the Profit Margin of Electric Vehicle Owners and Resilience of Multi-microgrid Using EV. *Journal of Electrical Engineering and Technology*,1	1.4	1