Mohammad Saad Alam

List of Publications by Year
in descending order

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57 papers	2,291 citations	361045 20 h-index	276539 41 g-index
59 all docs	59 docs citations	59 times ranked	1576 citing authors

#	Article	IF	Citations
1	A <scp>stateâ€ofâ€theâ€art</scp> review on the impact of fast <scp>EV</scp> charging on the utility sector. Energy Storage, 2022, 4, e300.	2.3	8
2	A comprehensive review of standards and best practices for utility grid integration with electric vehicle charging stations. Wiley Interdisciplinary Reviews: Energy and Environment, 2022, 11, e424.	1.9	6
3	A Review on Power Pad, Topologies and Standards of Wireless Charging of Electric Vehicles. , 2022, , .		7
4	Electric Vehicle Charging Stations and their Impact on the Power Quality of Utility Grid. , 2022, , .		10
5	Experimental validation of <scp>offâ€board EV</scp> charging station with reduced active switch count. International Journal of Energy Research, 2022, 46, 16929-16948.	2.2	1
6	Smart grid and Indian experience: A review. Resources Policy, 2021, 74, 101499.	4.2	27
7	Multi-Pulse Converter based Rectification Scheme for Improving Power-Quality of EVs Charging Station. , 2021, , .		2
8	System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. IEEE Systems Journal, 2020, 14, 2748-2758.	2.9	117
9	Comparison of common DC and AC bus architectures for EV fast charging stations and impact on power quality. ETransportation, 2020, 5, 100066.	6.8	48
10	Fog Computing for Big Data Analytics in IoT Aided Smart Grid Networks. Wireless Personal Communications, 2020, 114, 3395-3418.	1.8	14
11	Battery swapping station for electric vehicles: opportunities and challenges. IET Smart Grid, 2020, 3, 280-286.	1.5	114
12	Designing and demonstration of misalignment reduction for wireless charging of autonomous electric vehicle. ETransportation, 2020, 4, 100052.	6.8	13
13	Vehicular Fog Computing-Planning and Design. Procedia Computer Science, 2020, 167, 2570-2580.	1.2	14
14	Towards minimizing delay and energy consumption in vehicular fog computing (VFC). Journal of Intelligent and Fuzzy Systems, 2020, 38, 6549-6560.	0.8	7
15	Big Data Analytics Platforms for Electric Vehicle Integration in Transport Oriented Smart Cities. , 2020, , 833-854.		2
16	Economic Approach to Design of a Level 2 Residential Electric Vehicle Supply Equipment. Lecture Notes in Electrical Engineering, 2020, , 25-40.	0.3	7
17	Design and Optimization of Microgrid as EV Charging Source. Lecture Notes in Electrical Engineering, 2020, , 1139-1150.	0.3	0
18	Feasibility Analysis of Human to Nanogrid (H2N) Model for Backup Power System. , 2020, , .		0

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19	A State-of-the-Art Review on xEVs and Charging Infrastructure. , 2020, , .		5
20	Profit Maximization of Microgrid Aggregator Under Power Market Environment. IEEE Systems Journal, 2019, 13, 3388-3399.	2.9	18
21	Fast EV charging station integration with grid ensuring optimal and quality power exchange. Engineering Science and Technology, an International Journal, 2019, 22, 143-152.	2.0	101
22	Adaptive Neuro-Fuzzy Inference System (ANFIS) for Optimization of Solar Based Electric Vehicle-to-Home (V2H) Fuzzy Inference System (FIS) Controller. , 2019, , .		6
23	Design and Interoperability Analysis of Quadruple Pad Structure for Electric Vehicle Wireless Charging Application. IEEE Transactions on Transportation Electrification, 2019, 5, 934-945.	5.3	75
24	Design and technoâ€economic analysis of plugâ€in electric vehicleâ€integrated solar PV charging system for India. IET Smart Grid, 2019, 2, 224-232.	1.5	18
25	A Comprehensive review on electric vehicles charging infrastructures and their impacts on power-quality of the utility grid. ETransportation, 2019, 1, 100006.	6.8	176
26	A Cost-Efficient Approach to EV Charging Station Integrated Community Microgrid: A Case Study of Indian Power Market. IEEE Transactions on Transportation Electrification, 2019, 5, 200-214.	5.3	88
27	Assessment of power exchange based electricity market in India. Energy Strategy Reviews, 2019, 23, 163-177.	3.3	21
28	Big Data Analytics Platforms for Electric Vehicle Integration in Transport Oriented Smart Cities. International Journal of Digital Crime and Forensics, 2019, 11, 23-42.	0.5	5
29	A Cost-Efficient Energy Management System for Battery Swapping Station. IEEE Systems Journal, 2019, 13, 4355-4364.	2.9	56
30	Feasibility of Fog Computing in Smart Grid Architectures. Lecture Notes in Networks and Systems, 2019, , 999-1010.	0.5	9
31	Magnetic Analysis of Copper Coil Power Pad with Ferrite Core for Wireless Charging Application. Transactions on Electrical and Electronic Materials, 2019, 20, 165-173.	1.0	21
32	Fog-Assisted Cloud Platforms for Big Data Analytics in Cyber Physical Systems. , 2019, , 289-318.		3
33	Electric Vehicle Charging Infrastructure in India: Viability Analysis. Lecture Notes in Electrical Engineering, 2018, , 193-206.	0.3	12
34	Optimal Sizing and Analysis of Solar PV, Wind, and Energy Storage Hybrid System for Campus Microgrid. Smart Science, 2018, 6, 150-157.	1.9	25
35	Fuzzy Control Assisted Vehicle-to-Home (V2H) Energy Management System. Smart Science, 2018, 6, 173-187.	1.9	9
36	A Comprehensive Review on Solar Powered Electric Vehicle Charging System. Smart Science, 2018, 6, 54-79.	1.9	151

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37	A Review of the Electric Vehicle Charging Techniques, Standards, Progression and Evolution of EV Technologies in Germany. Smart Science, 2018, 6, 36-53.	1.9	91
38	IoT Enabled Monitoring of an Optimized Electric Vehicleâ€™s Battery System. Mobile Networks and Applications, 2018, 23, 994-1005.	2.2	30
39	A Comprehensive Review of Wireless Charging Technologies for Electric Vehicles. IEEE Transactions on Transportation Electrification, 2018, 4, 38-63.	5.3	580
40	Economic and ecological aspects for microgrids deployment in India. Sustainable Cities and Society, 2018, 37, 407-419.	5.1	38
41	Low cost residential microgrid system based home to grid (H2G) back up power management. Sustainable Cities and Society, 2018, 36, 204-214.	5.1	40
42	A Review on Sustainable xEV charging System in Sun Rich Nations. , 2018, , .		1
43	Reliable and Economy Modes of Operation for Electric Vehicle-to-Home (V2H) System. , 2018, , .		6
44	A Bibliographical Review of Electrical Vehicles (xEVs) Standards. SAE International Journal of Alternative Powertrains, 2018, 7, 63-98.	0.8	28
45	Reliable Residential Backup Power Control System Through Home to Plug-In Electric Vehicle (H2V). Technology and Economics of Smart Grids and Sustainable Energy, 2018, 3, 1.	1.8	13
46	Feasibility study, design and implementation of smart polygeneration microgrid at AMU. Sustainable Cities and Society, 2017, 35, 309-322.	5.1	38
47	Developments in xEVs charging infrastructure and energy management system for smart microgrids including xEVs. Sustainable Cities and Society, 2017, 35, 552-564.	5.1	94
48	Smart Electric Vehicle Charging Through Cloud Monitoring and Management. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	1.8	13
49	Automation of the grid: Indian initiatives. , 2017, , .		1
50	Optimal placement of electric, hybrid and plug-in hybrid electric vehicles (xEVs) in Indian power market. , 2017, , .		10
51	A state of the Art review on Wireless Power Transfer a step towards sustainable mobility. , 2017, , .		8
52	IoT enabled Electric Vehicleâ€™s Battery Monitoring System. , 2017, , .		23
53	Efficient prediction of maximum PV module output power through dynamic modeling. Sustainable Energy Technologies and Assessments, 2015, 11, 27-35.	1.7	9
54	Modified Queen-Bee Algorithm-Based Fuzzy Logic Control for Real-Time Robust Load Matching for a Solar PV System. IEEE Transactions on Sustainable Energy, 2014, 5, 691-698.	5.9	13

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55	Conceptual Framework of a Solar PV Based High Voltage Battery Charging Strategyfor PHEVs and Evs. American Journal of Electrical Power and Energy Systems, 2013, 2, 137.	0.5	11
56	A Comprehensive Review of Fast Charging Infrastructure for Electric Vehicles. Smart Science, 0, , 1-15.	1.9	28
57	A Comprehensive Review on Level 2 Charging System for Electric Vehicles. Smart Science, 0, , 1-23.	1.9	15