

Eklas Hossain

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112
papers

2,223
citations

24
h-index

44
g-index

123
ext. papers

3,517
ext. citations

3.2
avg, IF

5.97
L-index

#	Paper	IF	Citations
112	A Comprehensive Study of Key Electric Vehicle (EV) Components, Technologies, Challenges, Impacts, and Future Direction of Development. <i>Energies</i> , 2017 , 10, 1217	3.1	234
111	Microgrid testbeds around the world: State of art. <i>Energy Conversion and Management</i> , 2014 , 86, 132-153	3.6	188
110	. <i>IEEE Access</i> , 2019 , 7, 13960-13988	3.5	139
109	Analysis and Mitigation of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices. <i>IEEE Access</i> , 2018 , 6, 16816-16833	3.5	114
108	. <i>IEEE Access</i> , 2019 , 7, 73215-73252	3.5	82
107	. <i>IEEE Access</i> , 2019 , 7, 10467-10477	3.5	81
106	. <i>IEEE Access</i> , 2020 , 8, 76516-76531	3.5	81
105	A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya-Based Maximum Power Point Tracking: Experimental Performance Evaluation. <i>IEEE Access</i> , 2019 , 7, 82978-82990	3.5	75
104	. <i>IEEE Access</i> , 2020 , 8, 118433-118471	3.5	67
103	. <i>IEEE Access</i> , 2019 , 7, 103377-103389	3.5	51
102	A Comprehensive Review of the Load Forecasting Techniques Using Single and Hybrid Predictive Models. <i>IEEE Access</i> , 2020 , 8, 134911-134939	3.5	50
101	Forecasting of COVID-19 cases using deep learning models: Is it reliable and practically significant?. <i>Results in Physics</i> , 2021 , 21, 103817	3.7	48
100	A Comprehensive Review on Energy Storage Systems: Types, Comparison, Current Scenario, Applications, Barriers, and Potential Solutions, Policies, and Future Prospects. <i>Energies</i> , 2020 , 13, 3651	3.1	47
99	Size Optimization and Sensitivity Analysis of Hybrid Wind/PV Micro-Grids- A Case Study for Bangladesh. <i>IEEE Access</i> , 2019 , 7, 150120-150140	3.5	46
98	. <i>IEEE Access</i> , 2018 , 6, 33285-33305	3.5	45
97	. <i>IEEE Access</i> , 2021 , 9, 32436-32448	3.5	40
96	. <i>IEEE Access</i> , 2019 , 7, 16504-16524	3.5	37

95	A Systematic Review on Cognitive Radio in Low Power Wide Area Network for Industrial IoT Applications. <i>Sustainability</i> , 2021 , 13, 338	3.6	32
94	Brain-Computer Interface-Based Humanoid Control: A Review. <i>Sensors</i> , 2020 , 20,	3.8	31
93	Survey of Smart Grid Concepts and Technological Demonstrations Worldwide Emphasizing on the Oman Perspective. <i>Applied System Innovation</i> , 2020 , 3, 5	2.4	28
92	HSIC Bottleneck Based Distributed Deep Learning Model for Load Forecasting in Smart Grid With a Comprehensive Survey. <i>IEEE Access</i> , 2020 , 8, 222977-223008	3.5	28
91	Authentication Protocol for Cloud Databases Using Blockchain Mechanism. <i>Sensors</i> , 2019 , 19,	3.8	26
90	. <i>IEEE Access</i> , 2020 , 8, 60824-60837	3.5	25
89	Algorithm for Demand Response to Maximize the Penetration of Renewable Energy. <i>IEEE Access</i> , 2020 , 8, 55279-55288	3.5	24
88	Metrics and enhancement strategies for grid resilience and reliability during natural disasters. <i>Applied Energy</i> , 2021 , 290, 116709	10.7	22
87	Investigation on the Development of a Sliding Mode Controller for Constant Power Loads in Microgrids. <i>Energies</i> , 2017 , 10, 1086	3.1	21
86	An Overview of Energy Scenarios, Storage Systems and the Infrastructure for Vehicle-to-Grid Technology. <i>Energies</i> , 2018 , 11, 2174	3.1	19
85	A Review on Communication Standards and Charging Topologies of V2G and V2H Operation Strategies. <i>Energies</i> , 2019 , 12, 3748	3.1	18
84	A Three-Phase Transformerless T-Type- NPC-MLI for Grid Connected PV Systems with Common-Mode Leakage Current Mitigation. <i>Energies</i> , 2019 , 12, 2434	3.1	16
83	Stability improvement of microgrids in the presence of constant power loads. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 96, 442-456	5.1	16
82	Sliding Mode Controller and Lyapunov Redesign Controller to Improve Microgrid Stability: A Comparative Analysis with CPL Power Variation. <i>Energies</i> , 2017 , 10, 1959	3.1	15
81	. <i>IEEE Access</i> , 2021 , 9, 19345-19355	3.5	15
80	Density based smart traffic control system using canny edge detection algorithm for congregating traffic information 2017 ,		14
79	A New Decentralized Control Strategy of Microgrids in the Internet of Energy Paradigm. <i>Energies</i> , 2021 , 14, 2183	3.1	14
78	An Improved Dynamic Thermal Current Rating Model for PMU-Based Wide Area Measurement Framework for Reliability Analysis Utilizing Sensor Cloud System. <i>IEEE Access</i> , 2021 , 9, 14446-14458	3.5	14

77	BOLD: Bio-Inspired Optimized Leader Election for Multiple Drones. <i>Sensors</i> , 2020 , 20,	3.8	13
76	Microgrid facility at European union 2014 ,		13
75	Power Enhancement With Grid Stabilization of Renewable Energy-Based Generation System Using UPQC-FLC-EVA Technique. <i>IEEE Access</i> , 2020 , 8, 207443-207464	3.5	13
74	. <i>IEEE Access</i> , 2020 , 8, 217391-217415	3.5	13
73	Development of Lyapunov redesign controller for microgrids with constant power loads. <i>Renewable Energy Focus</i> , 2017 , 19-20, 49-62	5.4	12
72	. <i>IEEE Access</i> , 2019 , 7, 44813-44822	3.5	12
71	Designing a competitive electric vehicle charging station with solar PV and storage 2015 ,		12
70	Hybrid microgrid testbed involving wind/solar/fuel cell plants: A desing and analysis testbed 2014 ,		12
69	Efficiency improvement of solar cell using compound parabolic concentrator and sun tracking system 2008 ,		12
68	A Comprehensive Study of Key Electric Vehicle (EV) Components, Technologies, Challenges, Impacts, and Future Direction of Development		12
67	A Simple Multilevel Space Vector Modulation Technique and MATLAB System Generator Built FPGA Implementation for Three-Level Neutral-Point Clamped Inverter. <i>Energies</i> , 2019 , 12, 4332	3.1	12
66	. <i>IEEE Access</i> , 2020 , 8, 69003-69037	3.5	11
65	A Modified Step-Up Converter with Small Signal Analysis-Based Controller for Renewable Resource Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 102	2.6	11
64	Analysis of Optimal Deployment of Several DGs in Distribution Networks Using Plant Propagation Algorithm. <i>IEEE Access</i> , 2020 , 8, 175546-175562	3.5	11
63	Energy-Efficient Fuzzy Management System for Internet of Things Connected Vehicular Ad Hoc Networks. <i>Electronics (Switzerland)</i> , 2021 , 10, 1068	2.6	11
62	Design and Analysis of Heavily Doped n+ Pocket Asymmetrical Junction-Less Double Gate MOSFET for Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2499	2.6	11
61	Utility Grid: Present Challenges and Their Potential Solutions. <i>IEEE Access</i> , 2018 , 6, 60294-60317	3.5	11
60	Fuzzy logic controller for Dc-Dc buck converter with constant power load 2017 ,		10

59	Microgrid test-bed design with renewable energy sources 2014 ,		10
58	Design and data analysis for a belt-for-blind for visual impaired people. <i>International Journal of Advanced Mechatronic Systems</i> , 2011 , 3, 384	0.2	10
57	The path of the smart grid -the new and improved power grid 2016 ,		9
56	Performance Enhancement of PV System Configurations Under Partial Shading Conditions Using MS Method. <i>IEEE Access</i> , 2021 , 9, 56630-56644	3.5	9
55	Low voltage power line characterization as a data transfer method in public electricity distribution networks and indoor distribution networks 2008 ,		8
54	Solar cell efficiency improvement using compound parabolic concentrator and an implementation of sun tracking system 2008 ,		8
53	2016 ,		8
52	Electric Vehicle Charge Stations Location Analysis and DeterminationAnkara (Turkey) Case Study. <i>Energies</i> , 2019 , 12, 3472	3.1	7
51	. <i>IEEE Access</i> , 2020 , 8, 89215-89227	3.5	7
50	A Review of Control Methods on Suppression of 2Ripple for Single-Phase Quasi-Z-Source Inverter. <i>IEEE Access</i> , 2020 , 8, 42055-42070	3.5	7
49	. <i>IEEE Access</i> , 2020 , 8, 86810-86823	3.5	6
48	Nose tracking cursor control for the people with disabilities: An improved HCI 2017 ,		6
47	Development of a Novel Technological Readiness Assessment Tool for Fuel Cell Technology. <i>IEEE Access</i> , 2020 , 8, 132237-132252	3.5	6
46	Multi-Class Probabilistic Atlas-Based Whole Heart Segmentation Method in Cardiac CT and MRI. <i>IEEE Access</i> , 2021 , 9, 66948-66964	3.5	6
45	Integrated modeling and feasibility analysis of a rooftop photovoltaic systems for an academic building in Bangladesh. <i>International Journal of Low-Carbon Technologies</i> ,	2.8	6
44	A Comprehensive Review on Sustainable Aspects of Big Data Analytics for Smart Grid. <i>Sustainability</i> , 2021 , 13, 13322	3.6	5
43	Comprehensive NILM Framework: Device Type Classification and Device Activity Status Monitoring Using Capsule Network. <i>IEEE Access</i> , 2020 , 8, 179995-180009	3.5	5
42	. <i>IEEE Access</i> , 2020 , 8, 195472-195486	3.5	5

41	Resonant Energy Carrier Base Active Charge-Balancing Algorithm. <i>Electronics (Switzerland)</i> , 2020 , 9, 2166-6		5
40	An experimental study on eco-friendly and cost-effective natural materials for productivity enhancement of single slope solar still. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	5
39	Design and Implementation of Improved Three Port Converter and B4-Inverter Fed Brushless Direct Current Motor Drive System for Industrial Applications. <i>IEEE Access</i> , 2020 , 8, 149093-149112	3.5	4
38	Power Loss Analysis of Solar Photovoltaic Integrated Model Predictive Control Based On-Grid Inverter. <i>Energies</i> , 2020 , 13, 4669	3.1	4
37	Feasibility analysis: Evaluating sites for possible renewable energy options and their implications to minimize the cost. <i>International Journal of Electrical Engineering and Education</i> , 2020 , 002072092092853 ^{0.6}		3
36	Overview of quality of service evaluation of a charging station for electric vehicle 2017 ,		3
35	Performance of grid-voltage synchronization algorithms based on frequency-and phase-locked loop during severe grid fault conditions 2016 ,		3
34	Location-Based Optimized Service Selection for Data Management with Cloud Computing in Smart Grids. <i>Energies</i> , 2019 , 12, 4517	3.1	3
33	Artificial Neural Network Based Dynamic Voltage Restorer for Improvement of Power Quality 2018 ,		3
32	. <i>IEEE Access</i> , 2021 , 9, 127259-127269	3.5	3
31	. <i>IEEE Access</i> , 2021 , 9, 129933-129950	3.5	3
30	Solar Energy in the United States: Development, Challenges and Future Prospects. <i>Energies</i> , 2021 , 14, 8142	3.1	3
29	Design a grid tie inverter for PMSG wind turbine using FPGA & DSP builder 2016 ,		2
28	A wave-to-wire model of ocean wave energy conversion system using MATLAB/Simulink platform 2016 ,		2
27	An autonomous robot: Using ANN to navigate in a static path 2017 ,		2
26	Voltage and frequency stability analysis of AC microgrid 2015 ,		2
25	Microgrid facility around Asia and far east 2014 ,		2
24	Analysis and Implementation for a Walking Support System for Visually Impaired People 179-195		2

23	Design and Simulation of a Grid Connected Wind Turbine with Permanent Magnet Synchronous Generator 2020 ,		2
22	Projected Performance of InGaAs/GaAs Quantum Dot Solar Cells: Effects of Cap and Passivation Layers. <i>IEEE Access</i> , 2020 , 8, 212339-212350	3.5	2
21	. <i>IEEE Access</i> , 2020 , 8, 210961-210969	3.5	2
20	Regional Pole Placers of Power Systems under Random Failures/Repair Markov Jumps. <i>Energies</i> , 2021 , 14, 1989	3.1	2
19	. <i>IEEE Access</i> , 2021 , 9, 19078-19096	3.5	2
18	Suppressing Voltage Spikes of MOSFET in H-Bridge Inverter Circuit. <i>Electronics (Switzerland)</i> , 2021 , 10, 390	2.6	2
17	Feasibility study of grid-connected solar plant: An in-depth analysis of system modeling and proper technology selection. <i>International Journal of Electrical Engineering and Education</i> , 2020 , 002072092092854	0.6	1
16	Stability Analysis of MIMO Microgrid Systems in d _q Axis Platform with Constant Power Loads Based on Popov Absolute Stability Criterion. <i>Electric Power Components and Systems</i> , 2017 , 45, 2200-2215	1	1
15	Evaluation and development of a self-ruling internal control system for preventing car accidents using artificial neural network 2017 ,		1
14	Combined Approach for Power Loss Minimization in Distribution Networks in the Presence of Gridable Electric Vehicles and Dispersed Generation. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	1
13	Stability Analysis and Efficiency Optimization of an Inductive Power Transfer System With a Constant Power Load. <i>IEEE Access</i> , 2020 , 8, 209762-209775	3.5	1
12	Implementation of Different MPPT Techniques in Solar PV Tree under Partial Shading Conditions. <i>Sustainability</i> , 2021 , 13, 7208	3.6	1
11	Design of a Convolutional Neural Network Based Smart Waste Disposal System 2019 ,		1
10	Comparison of Different Hybrid Renewable Energy Systems With Optimized PV Configuration to Realize the Effects of Multiple Schemes 2019 ,		1
9	. <i>IEEE Access</i> , 2021 , 9, 115053-115067	3.5	1
8	A High Static Performance Hierarchical Three-dimensional Shifted Completely Connected Network. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
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6	Small Signal Stability with the Householder Method in Power Systems. <i>Energies</i> , 2019 , 12, 3412	3.1	0

- 5 Design and Performance Analysis of Tandem Organic Solar Cells: Effect of Cell Parameter. *IEEE Access*, **2021**, 9, 40665-40680 3.5 ○
- 4 Solar Photovoltaic Industry Overview **2022**, 1-21
- 3 Solar System Components **2022**, 95-192
- 2 A Novel Tradeoff Analysis between Traffic Congestion and Packing Density of Interconnection Networks for Massively Parallel Computers. *Applied Sciences (Switzerland)*, **2021**, 11, 10798 2.6
- 1 Visualization **2022**, 95-122