

Muhammad Khalid

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

1,730
citations

23
h-index

38
g-index

157
ext. papers

2,506
ext. citations

4.6
avg, IF

6.04
L-index

#	Paper	IF	Citations
115	Machine learning in state of health and remaining useful life estimation: Theoretical and technological development in battery degradation modelling. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 156, 111903	16.2	4
114	Soft Load Shedding Based Demand Control of Residential Consumers. <i>Electronics (Switzerland)</i> , 2022 , 11, 615	2.6	
113	A Review of Improvements in Power System Flexibility: Implementation, Operation and Economics. <i>Electronics (Switzerland)</i> , 2022 , 11, 581	2.6	0
112	Experiment and Numerical Analysis of Thermal Performance of a Billboard External Receiver. <i>Energies</i> , 2022 , 15, 2188	3.1	
111	Discussion on Mitigation of Fault Induced Delayed Voltage Recovery (FIDVR) by PV-STATCOM. <i>IEEE Transactions on Power Systems</i> , 2022 , 37, 1665-1665	7	
110	AC/DC fault handling and expanded DC power flow expression in hybrid multi-converter DC grids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 141, 107989	5.1	0
109	Global Sliding-Mode Control with Fractional-Order Terms for the Robust Optimal Operation of a Hybrid Renewable Microgrid with Battery Energy Storage. <i>Electronics (Switzerland)</i> , 2022 , 11, 88	2.6	2
108	A Flexible Operation and Sizing of Battery Energy Storage System Based on Butterfly Optimization Algorithm. <i>Electronics (Switzerland)</i> , 2022 , 11, 109	2.6	2
107	Enhancing Transient Response and Voltage Stability of Renewable Integrated Microgrids. <i>Sustainability</i> , 2022 , 14, 3710	3.6	0
106	Robust Control for Optimized Islanded and Grid-Connected Operation of Solar/Wind/Battery Hybrid Energy. <i>Sustainability</i> , 2022 , 14, 5673	3.6	1
105	Optimal Sizing and Cost Minimization of Solar Photovoltaic Power System Considering Economical Perspectives and Net Metering Schemes. <i>Electronics (Switzerland)</i> , 2021 , 10, 2713	2.6	4
104	Two-Stage Stochastic Optimization of Sodium-Sulfur Energy Storage Technology in Hybrid Renewable Power Systems. <i>IEEE Access</i> , 2021 , 9, 162962-162972	3.5	3
103	Stochastic Approach for Optimal Sizing and Allocation of Energy Storage Systems 2021 ,		1
102	Integrated Power Management and Nonlinear-Control for Hybrid Renewable Microgrid 2021 ,		2
101	Multi-Input Nonlinear Programming Based Deterministic Optimization Framework for Evaluating Microgrids with Optimal Renewable-Storage Energy Mix. <i>Sustainability</i> , 2021 , 13, 5878	3.6	8
100	Techno-Economic Assessment and Operational Planning of Wind-Battery Distributed Renewable Generation System. <i>Sustainability</i> , 2021 , 13, 6776	3.6	6
99	A comprehensive study on the effects of truncation positions of the compound parabolic concentrator eliminating multiple reflections on the performances of concentrating photovoltaic and thermal system. <i>Applied Thermal Engineering</i> , 2021 , 183, 116162	5.8	4

98	Moving Regression Filtering With Battery State of Charge Feedback Control for Solar PV Firming and Ramp Rate Curtailment. <i>IEEE Access</i> , 2021 , 9, 13198-13211	3.5	5
97	Improving the Transient Response of Hybrid Energy Storage System for Voltage Stability in DC Microgrids Using an Autonomous Control Strategy. <i>IEEE Access</i> , 2021 , 9, 10460-10472	3.5	16
96	Optimal Coordinated Planning of Energy Storage and Tie-Lines to Boost Flexibility with High Wind Power Integration. <i>Sustainability</i> , 2021 , 13, 2526	3.6	3
95	Primary Frequency Regulation by Demand Side Response. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 9627-9637	2.5	1
94	Neural network predictive control for smoothing of solar power fluctuations with battery energy storage. <i>Journal of Energy Storage</i> , 2021 , 42, 103014	7.8	0
93	. <i>IEEE Access</i> , 2021 , 9, 42771-42785	3.5	2
92	A Comprehensive Review of Recent Advances in Smart Grids: A Sustainable Future with Renewable Energy Resources. <i>Energies</i> , 2020 , 13, 6269	3.1	36
91	Optimal Sizing of Battery Energy Storage for Grid-Connected and Isolated Wind-Penetrated Microgrid. <i>IEEE Access</i> , 2020 , 8, 91129-91138	3.5	19
90	Discussion on Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1812-1812	10.7	
89	Minimization of Power Losses through Optimal Battery Placement in a Distributed Network with High Penetration of Photovoltaics. <i>Energies</i> , 2020 , 13, 140	3.1	18
88	Savitzky-Golay Filtering for Solar Power Smoothing and Ramp Rate Reduction Based on Controlled Battery Energy Storage. <i>IEEE Access</i> , 2020 , 8, 33806-33817	3.5	21
87	Discussion on Novel Supervisory Control Method for Islanded Droop-Based AC/DC Microgrids <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4138-4138	7	2
86	Fuzzy logic controller for solar power smoothing based on controlled battery energy storage and varying low pass filter. <i>IET Renewable Power Generation</i> , 2020 , 14, 3824-3833	2.9	2
85	Impact of Smart Restoration and Energy Storage Systems on the Reliability of Electric Microgrid. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 1911-1925	2.5	2
84	Discussion on Decentralized Optimal Frequency Control in Autonomous Microgrids <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4972-4972	7	0
83	Model Predictive Control Approach for Optimal Power Dispatch and Duck Curve Handling Under High Photovoltaic Power Penetration. <i>IEEE Access</i> , 2020 , 8, 186840-186850	3.5	4
82	Power Quality Improvement in Microgrids Under Critical Disturbances Using an Intelligent Decoupled Control Strategy Based on Battery Energy Storage System. <i>IEEE Access</i> , 2019 , 7, 147314-147326	3.5	17
81	Energy Management for Standalone DC Microgrid Using Artificial Bee Colony 2019 ,		1

80	Minimizing Active Power Losses in Electricity Networks Based on Optimal Location of Battery Energy Storage System 2019 ,		1
79	Heat losses and thermal stresses of an external cylindrical water/steam solar tower receiver. <i>Applied Thermal Engineering</i> , 2019 , 163, 114241	5.8	15
78	A MILP-Based Restoration Technique for Multi-Microgrid Distribution Systems. <i>IEEE Access</i> , 2019 , 7, 136801-136811	3.5	10
77	. <i>IEEE Access</i> , 2019 , 7, 77951-77963	3.5	10
76	Investigation into effects of non-uniform irradiance and photovoltaic temperature on performances of photovoltaic/thermal systems coupled with truncated compound parabolic concentrators. <i>Applied Energy</i> , 2019 , 250, 245-256	10.7	18
75	An Energy Management System for Residential Autonomous DC Microgrid Using Optimized Fuzzy Logic Controller Considering Economic Dispatch. <i>Energies</i> , 2019 , 12, 1457	3.1	31
74	A Novel Design of Static Electrostatic Generator for High Voltage Low Power Applications Based on Electric Field Manipulation by Area Geometric Difference. <i>Energies</i> , 2019 , 12, 802	3.1	2
73	Wind Power Economic Dispatch Impact of Radial Basis Functional Networks and Battery Energy Storage. <i>IEEE Access</i> , 2019 , 7, 36819-36832	3.5	12
72	Thermal losses evaluation of an external rectangular receiver in a windy environment. <i>Solar Energy</i> , 2019 , 184, 281-291	6.8	9
71	Electric Vehicles Beyond Energy Storage and Modern Power Networks: Challenges and Applications. <i>IEEE Access</i> , 2019 , 7, 99031-99064	3.5	28
70	Optimal Sizing of Battery Energy Storage for a Grid-Connected Microgrid Subjected to Wind Uncertainties. <i>Energies</i> , 2019 , 12, 2412	3.1	15
69	Enhancing the reliability of a microgrid through optimal size of battery ESS. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 1499-1508	2.5	15
68	An Intelligent Battery Energy Storage-Based Controller for Power Quality Improvement in Microgrids. <i>Energies</i> , 2019 , 12, 2112	3.1	11
67	A Strategy for Utilization of Reactive Power Capability of PV Inverters 2019 ,		1
66	Voltage and Frequency Control of Microgrids With Distributed Generations and Battery Energy Storage 2019 ,		2
65	Energy Management Strategy Considering Battery Efficiency for Grid-Tied Microgrids During Summer in the Kingdom of Saudi Arabia 2019 ,		4
64	2019 ,		2
63	Sizing and Allocation for Solar Energy Storage System Considering the Cost Optimization 2019 ,		4

62	Wind Energy Conversion Systems and Artificial Neural Networks: Role and Applications 2019 ,		4
61	Impact of wind speed modelling on the predictive reliability assessment of wind-based microgrids. <i>IET Renewable Power Generation</i> , 2019 , 13, 2947-2956	2.9	7
60	A Reactive Power Compensation Strategy in Radial Distribution Network with High PV Penetration 2019 ,		3
59	2019 ,		1
58	Hybrid Energy Storage System for Voltage Stability in a DC Microgrid Using a Modified Control Strategy 2019 ,		4
57	A Review on the Selected Applications of Battery-Supercapacitor Hybrid Energy Storage Systems for Microgrids. <i>Energies</i> , 2019 , 12, 4559	3.1	33
56	Multi-Objective Optimal DG Sizing and Placement in Distribution Systems Using Particle Swarm Optimization 2019 ,		2
55	Microgrid Reliability Evaluation Using Distributed Energy Storage Systems 2019 ,		4
54	A review on the selected applications of forecasting models in renewable power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 100, 9-21	16.2	86
53	Design and performance study on a large-scale hybrid CPV/T system based on unsteady-state thermal model. <i>Solar Energy</i> , 2019 , 177, 427-439	6.8	12
52	A Coordinated Frequency Regulation Framework Based on Hybrid Battery-Ultracapacitor Energy Storage Technologies. <i>IEEE Access</i> , 2018 , 6, 7310-7320	3.5	45
51	A market-oriented wind power dispatch strategy using adaptive price thresholds and battery energy storage. <i>Wind Energy</i> , 2018 , 21, 242-254	3.4	10
50	Optimal sizing of a wind/solar/battery hybrid grid-connected microgrid system. <i>IET Renewable Power Generation</i> , 2018 , 12, 72-80	2.9	147
49	. <i>IEEE Access</i> , 2018 , 6, 5986-6000	3.5	43
48	On maximizing profit of wind-battery supported power station based on wind power and energy price forecasting. <i>Applied Energy</i> , 2018 , 211, 764-773	10.7	49
47	Metabolism of the spade-headed Amphisbaenian worm lizard, (Nikolsky, 1907), in Saudi Arabia (Reptilia: Trogonophidae). <i>Saudi Journal of Biological Sciences</i> , 2018 , 25, 178-181	4	
46	Performance investigation on a novel spectral splitting concentrating photovoltaic/thermal system based on direct absorption collection. <i>Solar Energy</i> , 2018 , 163, 552-563	6.8	18
45	Seven-parameter PV model estimation using Differential Evolution. <i>Electrical Engineering</i> , 2018 , 100, 971-981	1.5	21

44	Reliability Assessment of Microgrids with Multiple Distributed Generations and Hybrid Energy Storage 2018 ,		1
43	An Efficient Scenario Generation Technique for Short-Term Wind Power Production 2018 ,		1
42	Residential Demand Side Management in Smart Grid Paradigm 2018 ,		2
41	Optimal Dispatch of Distributed Generation Units, Wind Farms and Energy Storage Systems 2018 ,		1
40	Optimal Sizing, Allocation, Dispatch and Power Flow of Energy Storage Systems Integrated with Distributed Generation Units and a Wind Farm 2018 ,		5
39	Optimal Planning of Multiple Distributed Generating Units and Storage in Active Distribution Networks. <i>IEEE Access</i> , 2018 , 6, 55234-55244	3.5	29
38	Method for planning a windSolarBattery hybrid power plant with optimal generation-demand matching. <i>IET Renewable Power Generation</i> , 2018 , 12, 1800-1806	2.9	29
37	An intelligent framework for short-term multi-step wind speed forecasting based on Functional Networks. <i>Applied Energy</i> , 2018 , 225, 902-911	10.7	45
36	A strategy for residential demand response management in modern electricity markets 2018 ,		1
35	Sizing of energy storage systems to enhance microgrid reliability 2018 ,		3
34	A Nonlinear Autoregressive Neural Network Model for Short-Term Wind Forecasting 2017 ,		1
33	2017 ,		1
32	A method for short-term wind speed time series forecasting using Support Vector Machine Regression Model 2017 ,		3
31	Co-optimized trading of wind-thermal-pumped storage system in energy and regulation markets. <i>Energy</i> , 2017 , 138, 991-1005	7.9	31
30	. <i>IEEE Access</i> , 2017 , 5, 25897-25912	3.5	76
29	Multi-step Ahead Wind Forecasting Using Nonlinear Autoregressive Neural Networks. <i>Energy Procedia</i> , 2017 , 134, 192-204	2.3	34
28	Diet of the Worm Lizard, <i>Diplometopon zarudnyi</i> (Nikolsky, 1907), in Riyadh province, Saudi Arabia (Reptilia: Trogonophidae). <i>Zoology in the Middle East</i> , 2016 , 62, 227-230	0.7	6
27	A method for minimizing energy cost in a microgrid with hybrid renewable power generation using controlled battery energy storage 2016 ,		1

26	Minimizing the energy cost for microgrids integrated with renewable energy resources and conventional generation using controlled battery energy storage. <i>Renewable Energy</i> , 2016 , 97, 646-655	8.1	45
25	A Constrained Monotonic Charging/Discharging Strategy for Optimal Capacity of Battery Energy Storage Supporting Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1224-1231	8.2	39
24	An Efficient ANFIS-Based PI Controller for Maximum Power Point Tracking of PV Systems. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 2641-2651		26
23	Optimization of a power system consisting of wind and solar power plants and battery energy storage for optimal matching of supply and demand 2015 ,		2
22	An adaptive control algorithm for wind power dispatch using a battery energy storage system 2015 ,		1
21	Minimization and control of battery energy storage for wind power smoothing: Aggregated, distributed and semi-distributed storage. <i>Renewable Energy</i> , 2014 , 64, 105-112	8.1	58
20	Optimal size of battery energy storage and monotonic charging/discharging strategies for wind farms 2014 ,		6
19	Improving Wind Farm Dispatch in the Australian Electricity Market With Battery Energy Storage Using Model Predictive Control. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 745-755	8.2	75
18	Stochastic-programming-based bidding strategy for V2G services 2013 ,		5
17	Closure to discussion on "A method for short-term wind power prediction with multiple observation points". <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1898-1899	7	10
16	Coordinating emission-aware energy trading with V2G services 2013 ,		3
15	An optimal operation of wind energy storage system for frequency control based on model predictive control. <i>Renewable Energy</i> , 2012 , 48, 127-132	8.1	45
14	Transmission lines induced currents in human bodies using charge simulation method 2012 ,		1
13	. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 579-586	7	100
12	Wind power dispatch control with battery energy storage using model predictive control 2012 ,		8
11	Direction Dependent Power Curves for Wind Power Prediction: A Case Study. <i>Smart Innovation, Systems and Technologies</i> , 2011 , 121-127	0.5	
10	Model Predictive Control of Wind Energy Storage System for Frequency Regulation. <i>Smart Innovation, Systems and Technologies</i> , 2011 , 101-110	0.5	2
9	Optimization and control of a distributed Battery Energy Storage System for wind power smoothing 2011 ,		9

8	Model predictive control of distributed and aggregated Battery Energy Storage System for capacity optimization 2011 ,		1
7	Model predictive control based efficient operation of battery energy storage system for primary frequency control 2010 ,		13
6	A model predictive control approach to the problem of wind power smoothing with controlled battery storage. <i>Renewable Energy</i> , 2010 , 35, 1520-1526	8.1	124
5	2009 ,		1
4	Model predictive control for wind power generation smoothing with controlled battery storage 2009 ,		15
3	Development of Short-Term Prediction System for Wind Power Generation Based on Multiple Observation Points 2009 , 89-98		2
2	Double Moving Average Methodology for Smoothing of Solar Power Fluctuations with Battery Energy Storage		0
1	Nonlinear Power System Stabilizer Design for Small Signal Stability Enhancement. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	2