

Mohammed Ben-Idris

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.

80
papers

707
citations

13
h-index

22
g-index

112
ext. papers

1,057
ext. citations

4.3
avg, IF

4.98
L-index

#	Paper	IF	Citations
80	Enhancing Power System Operational Resilience against Wildfires. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
79	A convolutional neural network-based approach to composite power system reliability evaluation. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 135, 107468	5.1	4
78	Coordinated data falsification attack detection in the domain of distributed generation using deep learning. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 134, 107345	5.1	2
77	Proactive Generation Redispatch to Enhance Power System Resilience during Hurricanes Considering Unavailability of Renewable Energy Sources. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
76	A Markov Decision Process to Enhance Power System Operation Resilience during Hurricanes 2021 ,		5
75	Proactive Generation Redispatch Strategy Considering Unavailability of Renewable Energy Sources during Hurricanes 2021 ,		1
74	A Markov Decision Process to Enhance Power System Operation Resilience during Wildfires 2021 ,		2
73	A data-driven accurate battery model to use in probabilistic analyses of power systems. <i>Journal of Energy Storage</i> , 2021 , 44, 103292	7.8	1
72	Optimal Sizing and Siting of Multi-purpose Utility-scale Shared Energy Storage Systems 2021 ,		1
71	Proactive Generation Redispatch to Enhance Power System Operation Resilience during Hurricanes 2021 ,		5
70	Cybersecurity of Electric Vehicle Smart Charging Management Systems 2021 ,		2
69	A Polynomial Chaos-based Approach to Quantify Uncertainties of Correlated Renewable Energy Sources in Voltage Regulation. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 2089-2097	4.3	2
68	Deep ensemble learning-based approach to real-time power system state estimation. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 129, 106806	5.1	6
67	A Deep Reinforcement Learning-based Multi-Agent Framework to Enhance Power System Resilience using Shunt Resources. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	7
66	Detection of Cyber Attacks on Voltage Regulation in Distribution Systems Using Machine Learning. <i>IEEE Access</i> , 2021 , 9, 40402-40416	3.5	3
65	Utility-Scale Shared Energy Storage: Business models for utility-scale shared energy storage systems and customer participation. <i>IEEE Electrification Magazine</i> , 2021 , 9, 47-54	2.6	1
64	A Sensitivity-based Approach to Adaptive Under-Frequency Load Shedding 2020 ,		0

63	A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1422-1431	7	2
62	Power System Resilience: Current Practices, Challenges, and Future Directions. <i>IEEE Access</i> , 2020 , 8, 18064-18086	5	6
61	A reliability-constrained demand response-based method to increase the hosting capacity of power systems to electric vehicles. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 121, 106046	5	10
60	Probabilistic Sizing of Virtual Energy Storage Devices for Transient Stability Enhancement 2020 ,		1
59	Reduction of Three-Phase Transformer Inrush Currents Using Controlled Switching. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 890-897	4-3	9
58	Data-driven Assessment of Power System Reliability in Presence of Renewable Energy 2020 ,		1
57	A Method to Evaluate the Maximum Hosting Capacity of Power Systems to Electric Vehicles 2020 ,		2
56	A Polynomial Chaos-based Approach to Sizing of Virtual Synchronous Generators 2020 ,		1
55	Reliability-Based Metrics to Quantify the Maximum Permissible Load Demand of Electric Vehicles. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3365-3375	4-3	15
54	Determining Maximum Hosting Capacity of Electric Distribution Systems to Electric Vehicles 2019 ,		9
53	Optimum Locations of Utility-Scale Shared Energy Storage Systems 2019 ,		2
52	Photovoltaic Hosting Capacity Estimation Considering the Impact of Electric Vehicles 2019 ,		2
51	Stacked Revenue and Technical Benefits of a Grid-Connected Energy Storage System. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3034-3043	4-3	30
50	A Two-stage Planning Strategy for Reliability Enhancement and Loss Reduction in Distribution Systems 2018 ,		2
49	Effective Load Demand of Electric Vehicles in Power System Adequacy Assessment 2018 ,		5
48	Effective Accessible Energy to Accommodate Load Demand of Electric Vehicles 2018 ,		7
47	A Controlled Switching Approach to Reduction of Three-Phase Transformer Inrush Currents 2018 ,		2
46	Demand Response based Power System Reliability Enhancement 2018 ,		3

45	A Comprehensive Analysis of Reliability-oriented Optimal Distribution System Reconfiguration 2018,		4
44	Reliability Modeling Considerations for Emerging Cyber-Physical Power Systems 2018,		7
43	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4131-4139	7	15
42	A Visualization Tool for Real-Time Dynamic Contingency Screening and Remedial Actions. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 3268-3278	4-3	12
41	Quantification of Storage Necessary to Firm Up Wind Generation. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 3228-3236	4-3	30
40	Hierarchical droop controlled frequency optimization and energy management of a grid-connected microgrid 2017,		3
39	A Wind Farm Reliability Model Considering Both Wind Variability and Turbine Forced Outages. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 629-637	8.2	48
38	Capacity value of photovoltaic systems and their impacts on power system reliability 2017,		2
37	Stacked revenue and technical benefits of a grid-connected energy storage system 2017,		2
36	A new method to evaluate the optimal penetration level of wind power 2017,		2
35	Reliability and environmental benefits of energy storage systems in firming up wind generation 2017,		5
34	Sensitivity guided genetic algorithm for placement of distributed energy resources 2017,		2
33	Reactive power compensation for reliability improvement of power systems 2016,		4
32	Use of homotopy-based approaches in finding Controlling Unstable Equilibrium Points in transient stability analysis 2016,		3
31	An emission-constrained approach to power system expansion planning. <i>International Journal of Electrical Power and Energy Systems</i> , 2016 , 81, 78-86	5.1	13
30	A unified analysis of the impacts of stochasticity and low inertia of wind generation 2016,		4
29	Optimal feeder reconfiguration and distributed generation placement for reliability improvement 2016,		8
28	2016,		5

27	Modeling and assessment of PV solar plants for composite system reliability considering radiation variability and component availability 2016,		6
26	A method for reliability improvement of microgrids 2016,		3
25	Modeling and evaluating the capacity credit of PV solar systems using an analytical method 2016,		4
24	Fast economic power dispatch method for power system planning studies. <i>IET Generation, Transmission and Distribution, 2015, 9, 417-426</i>	2.5	27
23	Reliability and sensitivity analysis of composite power systems considering voltage and reactive power constraints. <i>IET Generation, Transmission and Distribution, 2015, 9, 1245-1253</i>	2.5	9
22	Power system reliability evaluation using a state space classification technique and particle swarm optimisation search method. <i>IET Generation, Transmission and Distribution, 2015, 9, 1865-1873</i>	2.5	20
21	Reliability-Constrained Optimal Distribution System Reconfiguration. <i>Studies in Computational Intelligence, 2015, 265-289</i>	0.8	0
20	Evaluation of wind power capacity value including effects of transmission system 2015,		4
19	Modeling the output power of PV farms for power system adequacy assessment 2015,		7
18	Reliability and Sensitivity Analysis of Composite Power Systems Under Emission Constraints. <i>IEEE Transactions on Power Systems, 2014, 29, 404-412</i>	7	30
17	Analytical approach for placement and sizing of distributed generation on distribution systems. <i>IET Generation, Transmission and Distribution, 2014, 8, 1039-1049</i>	2.5	91
16	Use of intelligent search methods in performing sensitivity analysis of power system reliability indices 2014,		4
15	Reliability improvement of power distribution system through feeder reconfiguration 2014,		17
14	Optimal economic power dispatch in the presence of intermittent renewable energy sources 2014,		1
13	An analytical method for constructing a probabilistic model of a wind farm 2014,		1
12	Evaluation of wind capacity credit using discrete convolution considering the mechanical failure of wind turbines 2014,		3
11	A fast transient stability screening and ranking tool 2014,		5
10	A method to model the output power of wind farms in composite system reliability assessment 2014,		3

9	A risk sensitivity-based approach to hardening power systems against catastrophic failures 2014,	2
8	Composite power system reliability assessment using maximum capacity flow and directed Binary Particle Swarm Optimization 2013,	13
7	Composite system reliability assessment using dynamically directed Particle Swarm Optimization 2013,	9
6	Power flow analysis of distribution systems with embedded induction generators 2012,	2
5	Transient stability of distributed generators in the presence of energy storage devices 2012,	8
4	Sensitivity analysis of reliability performance of multi-level converters 2012,	3
3	Enhancing stability performance of renewable energy generators by utilizing virtual inertia 2012,	15
2	A three-phase power flow solution method for unbalanced distribution networks 2011,	4
1	Sensitivity analysis in composite system reliability using weighted shadow prices 2011,	8