

# Mohammed Ben-Idris

## List of Publications by Citations

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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	Analytical approach for placement and sizing of distributed generation on distribution systems. <i>IET Generation, Transmission and Distribution</i> , <b>2014</b> , 8, 1039-1049	2.5	91
79	Power System Resilience: Current Practices, Challenges, and Future Directions. <i>IEEE Access</i> , <b>2020</b> , 8, 18064-18086	4.5	18086
78	A Wind Farm Reliability Model Considering Both Wind Variability and Turbine Forced Outages. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 629-637	8.2	48
77	Quantification of Storage Necessary to Firm Up Wind Generation. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 3228-3236	4.3	30
76	Stacked Revenue and Technical Benefits of a Grid-Connected Energy Storage System. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 3034-3043	4.3	30
75	Reliability and Sensitivity Analysis of Composite Power Systems Under Emission Constraints. <i>IEEE Transactions on Power Systems</i> , <b>2014</b> , 29, 404-412	7	30
74	Fast economic power dispatch method for power system planning studies. <i>IET Generation, Transmission and Distribution</i> , <b>2015</b> , 9, 417-426	2.5	27
73	Power system reliability evaluation using a state space classification technique and particle swarm optimisation search method. <i>IET Generation, Transmission and Distribution</i> , <b>2015</b> , 9, 1865-1873	2.5	20
72	Reliability improvement of power distribution system through feeder reconfiguration <b>2014</b> ,		17
71	. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 4131-4139	7	15
70	Reliability-Based Metrics to Quantify the Maximum Permissible Load Demand of Electric Vehicles. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 3365-3375	4.3	15
69	Enhancing stability performance of renewable energy generators by utilizing virtual inertia <b>2012</b> ,		15
68	An emission-constrained approach to power system expansion planning. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2016</b> , 81, 78-86	5.1	13
67	Composite power system reliability assessment using maximum capacity flow and directed Binary Particle Swarm Optimization <b>2013</b> ,		13
66	A Visualization Tool for Real-Time Dynamic Contingency Screening and Remedial Actions. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 3268-3278	4.3	12
65	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> , <b>2020</b> , 121, 106046	5.1	10
64	Reliability and sensitivity analysis of composite power systems considering voltage and reactive power constraints. <i>IET Generation, Transmission and Distribution</i> , <b>2015</b> , 9, 1245-1253	2.5	9

63	Composite system reliability assessment using dynamically directed Particle Swarm Optimization <b>2013,</b>		9
62	Reduction of Three-Phase Transformer Inrush Currents Using Controlled Switching. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 890-897	4-3	9
61	Determining Maximum Hosting Capacity of Electric Distribution Systems to Electric Vehicles <b>2019,</b>		9
60	Transient stability of distributed generators in the presence of energy storage devices <b>2012,</b>		8
59	Sensitivity analysis in composite system reliability using weighted shadow prices <b>2011,</b>		8
58	Optimal feeder reconfiguration and distributed generation placement for reliability improvement <b>2016,</b>		8
57	Modeling the output power of PV farms for power system adequacy assessment <b>2015,</b>		7
56	A Deep Reinforcement Learning-based Multi-Agent Framework to Enhance Power System Resilience using Shunt Resources. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 1-1	7	7
55	Effective Accessible Energy to Accommodate Load Demand of Electric Vehicles <b>2018,</b>		7
54	Reliability Modeling Considerations for Emerging Cyber-Physical Power Systems <b>2018,</b>		7
53	Deep ensemble learning-based approach to real-time power system state estimation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 129, 106806	5.1	6
52	Modeling and assessment of PV solar plants for composite system reliability considering radiation variability and component availability <b>2016,</b>		6
51	Reliability and environmental benefits of energy storage systems in firming up wind generation <b>2017,</b>		5
50	A fast transient stability screening and ranking tool <b>2014,</b>		5
49	A Markov Decision Process to Enhance Power System Operation Resilience during Hurricanes <b>2021,</b>		5
48	Proactive Generation Redispatch to Enhance Power System Operation Resilience during Hurricanes <b>2021,</b>		5
47	<b>2016,</b>		5
46	Effective Load Demand of Electric Vehicles in Power System Adequacy Assessment <b>2018,</b>		5

45	Reactive power compensation for reliability improvement of power systems <b>2016</b> ,		4
44	Evaluation of wind power capacity value including effects of transmission system <b>2015</b> ,		4
43	Use of intelligent search methods in performing sensitivity analysis of power system reliability indices <b>2014</b> ,		4
42	A three-phase power flow solution method for unbalanced distribution networks <b>2011</b> ,		4
41	A unified analysis of the impacts of stochasticity and low inertia of wind generation <b>2016</b> ,		4
40	Modeling and evaluating the capacity credit of PV solar systems using an analytical method <b>2016</b> ,		4
39	A Comprehensive Analysis of Reliability-oriented Optimal Distribution System Reconfiguration <b>2018</b> ,		4
38	A convolutional neural network-based approach to composite power system reliability evaluation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 135, 107468	5.1	4
37	Hierarchical droop controlled frequency optimization and energy management of a grid-connected microgrid <b>2017</b> ,		3
36	Use of homotopy-based approaches in finding Controlling Unstable Equilibrium Points in transient stability analysis <b>2016</b> ,		3
35	Evaluation of wind capacity credit using discrete convolution considering the mechanical failure of wind turbines <b>2014</b> ,		3
34	A method to model the output power of wind farms in composite system reliability assessment <b>2014</b> ,		3
33	Sensitivity analysis of reliability performance of multi-level converters <b>2012</b> ,		3
32	A method for reliability improvement of microgrids <b>2016</b> ,		3
31	Detection of Cyber Attacks on Voltage Regulation in Distribution Systems Using Machine Learning. <i>IEEE Access</i> , <b>2021</b> , 9, 40402-40416	3.5	3
30	Demand Response based Power System Reliability Enhancement <b>2018</b> ,		3
29	A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 1422-1431	7	2
28	A Two-stage Planning Strategy for Reliability Enhancement and Loss Reduction in Distribution Systems <b>2018</b> ,		2

27	Capacity value of photovoltaic systems and their impacts on power system reliability <b>2017</b> ,		2
26	Stacked revenue and technical benefits of a grid-connected energy storage system <b>2017</b> ,		2
25	A new method to evaluate the optimal penetration level of wind power <b>2017</b> ,		2
24	Sensitivity guided genetic algorithm for placement of distributed energy resources <b>2017</b> ,		2
23	A risk sensitivity-based approach to hardening power systems against catastrophic failures <b>2014</b> ,		2
22	Power flow analysis of distribution systems with embedded induction generators <b>2012</b> ,		2
21	A Markov Decision Process to Enhance Power System Operation Resilience during Wildfires <b>2021</b> ,		2
20	A Method to Evaluate the Maximum Hosting Capacity of Power Systems to Electric Vehicles <b>2020</b> ,		2
19	Cybersecurity of Electric Vehicle Smart Charging Management Systems <b>2021</b> ,		2
18	A Polynomial Chaos-based Approach to Quantify Uncertainties of Correlated Renewable Energy Sources in Voltage Regulation. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 2089-2097	4.3	2
17	Optimum Locations of Utility-Scale Shared Energy Storage Systems <b>2019</b> ,		2
16	Photovoltaic Hosting Capacity Estimation Considering the Impact of Electric Vehicles <b>2019</b> ,		2
15	A Controlled Switching Approach to Reduction of Three-Phase Transformer Inrush Currents <b>2018</b> ,		2
14	Coordinated data falsification attack detection in the domain of distributed generation using deep learning. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 134, 107345	5.1	2
13	Optimal economic power dispatch in the presence of intermittent renewable energy sources <b>2014</b> ,		1
12	An analytical method for constructing a probabilistic model of a wind farm <b>2014</b> ,		1
11	Proactive Generation Redispatch Strategy Considering Unavailability of Renewable Energy Sources during Hurricanes <b>2021</b> ,		1
10	Enhancing Power System Operational Resilience against Wildfires. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	1

9	A data-driven accurate battery model to use in probabilistic analyses of power systems. <i>Journal of Energy Storage</i> , <b>2021</b> , 44, 103292	7.8	1
8	Probabilistic Sizing of Virtual Energy Storage Devices for Transient Stability Enhancement <b>2020</b> ,		1
7	Data-driven Assessment of Power System Reliability in Presence of Renewable Energy <b>2020</b> ,		1
6	A Polynomial Chaos-based Approach to Sizing of Virtual Synchronous Generators <b>2020</b> ,		1
5	Optimal Sizing and Siting of Multi-purpose Utility-scale Shared Energy Storage Systems <b>2021</b> ,		1
4	Proactive Generation Redispatch to Enhance Power System Resilience during Hurricanes Considering Unavailability of Renewable Energy Sources. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	1
3	Utility-Scale Shared Energy Storage: Business models for utility-scale shared energy storage systems and customer participation. <i>IEEE Electrification Magazine</i> , <b>2021</b> , 9, 47-54	2.6	1
2	Reliability-Constrained Optimal Distribution System Reconfiguration. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 265-289	0.8	0
1	A Sensitivity-based Approach to Adaptive Under-Frequency Load Shedding <b>2020</b> ,		0