

Mohammed Ben-Idris

List of Publications by Year in descending order

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112
papers

1,391
citations

516561

16
h-index

501076

28
g-index

112
all docs

112
docs citations

112
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Power System Resilience: Current Practices, Challenges, and Future Directions. IEEE Access, 2020, 8, 18064-18086.	2.6	200
2	Analytical approach for placement and sizing of distributed generation on distribution systems. IET Generation, Transmission and Distribution, 2014, 8, 1039-1049.	1.4	134
3	A Wind Farm Reliability Model Considering Both Wind Variability and Turbine Forced Outages. IEEE Transactions on Sustainable Energy, 2017, 8, 629-637.	5.9	70
4	Stacked Revenue and Technical Benefits of a Grid-Connected Energy Storage System. IEEE Transactions on Industry Applications, 2018, 54, 3034-3043.	3.3	54
5	Quantification of Storage Necessary to Firm Up Wind Generation. IEEE Transactions on Industry Applications, 2017, 53, 3228-3236.	3.3	46
6	A Deep Reinforcement Learning-Based Multi-Agent Framework to Enhance Power System Resilience Using Shunt Resources. IEEE Transactions on Power Systems, 2021, 36, 5525-5536.	4.6	46
7	Reliability and Sensitivity Analysis of Composite Power Systems Under Emission Constraints. IEEE Transactions on Power Systems, 2014, 29, 404-412.	4.6	37
8	Fast economic power dispatch method for power system planning studies. IET Generation, Transmission and Distribution, 2015, 9, 417-426.	1.4	31
9	Power system reliability evaluation using a state space classification technique and particle swarm optimisation search method. IET Generation, Transmission and Distribution, 2015, 9, 1865-1873.	1.4	31
10	Reduction of Three-Phase Transformer Inrush Currents Using Controlled Switching. IEEE Transactions on Industry Applications, 2020, 56, 890-897.	3.3	29
11	A convolutional neural network-based approach to composite power system reliability evaluation. International Journal of Electrical Power and Energy Systems, 2022, 135, 107468.	3.3	29
12	A reliability-constrained demand response-based method to increase the hosting capacity of power systems to electric vehicles. International Journal of Electrical Power and Energy Systems, 2020, 121, 106046.	3.3	27
13	Enhancing stability performance of renewable energy generators by utilizing virtual inertia. , 2012, , .		26
14	Integrated Evaluation of Reliability and Stability of Power Systems. IEEE Transactions on Power Systems, 2017, 32, 4131-4139.	4.6	25
15	Deep ensemble learning-based approach to real-time power system state estimation. International Journal of Electrical Power and Energy Systems, 2021, 129, 106806.	3.3	22
16	Reliability improvement of power distribution system through feeder reconfiguration. , 2014, , .		21
17	Reliability-Based Metrics to Quantify the Maximum Permissible Load Demand of Electric Vehicles. IEEE Transactions on Industry Applications, 2019, 55, 3365-3375.	3.3	21
18	Detection of Cyber Attacks on Voltage Regulation in Distribution Systems Using Machine Learning. IEEE Access, 2021, 9, 40402-40416.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Composite power system reliability assessment using maximum capacity flow and directed Binary Particle Swarm Optimization. , 2013, , .		18
20	Transient stability of distributed generators in the presence of energy storage devices. , 2012, , .		16
21	A Visualization Tool for Real-Time Dynamic Contingency Screening and Remedial Actions. IEEE Transactions on Industry Applications, 2017, 53, 3268-3278.	3.3	16
22	Determining Maximum Hosting Capacity of Electric Distribution Systems to Electric Vehicles. , 2019, , .		16
23	Optimal feeder reconfiguration and distributed generation placement for reliability improvement. , 2016, , .		14
24	Reliability Modeling Considerations for Emerging Cyber-Physical Power Systems. , 2018, , .		14
25	An emission-constrained approach to power system expansion planning. International Journal of Electrical Power and Energy Systems, 2016, 81, 78-86.	3.3	13
26	Coordinated data falsification attack detection in the domain of distributed generation using deep learning. International Journal of Electrical Power and Energy Systems, 2022, 134, 107345.	3.3	13
27	Reliability and sensitivity analysis of composite power systems considering voltage and reactive power constraints. IET Generation, Transmission and Distribution, 2015, 9, 1245-1253.	1.4	12
28	Enhancing Power System Operational Resilience Against Wildfires. IEEE Transactions on Industry Applications, 2022, 58, 1611-1621.	3.3	12
29	Composite system reliability assessment using dynamically directed Particle Swarm Optimization. , 2013, , .		11
30	Proactive Generation Redispatch to Enhance Power System Resilience During Hurricanes Considering Unavailability of Renewable Energy Sources. IEEE Transactions on Industry Applications, 2022, 58, 3044-3053.	3.3	11
31	Sensitivity analysis in composite system reliability using weighted shadow prices. , 2011, , .		10
32	Modeling and assessment of PV solar plants for composite system reliability considering radiation variability and component availability. , 2016, , .		10
33	A Spanning Tree-based Genetic Algorithm for Distribution Network Reconfiguration. , 2020, , .		10
34	A fast transient stability screening and ranking tool. , 2014, , .		9
35	Optimal location and size of distributed energy resources using sensitivity analysis-based approaches. , 2016, , .		9
36	Modeling and evaluating the capacity credit of PV solar systems using an analytical method. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
37	Effective Accessible Energy to Accommodate Load Demand of Electric Vehicles. , 2018, , .		9
38	A Sensitivity-based Approach to Adaptive Under-Frequency Load Shedding. , 2020, , .		9
39	A Polynomial Chaos-based Approach to Quantify Uncertainties of Correlated Renewable Energy Sources in Voltage Regulation. IEEE Transactions on Industry Applications, 2021, 57, 2089-2097.	3.3	9
40	A Markov Decision Process to Enhance Power System Operation Resilience during Hurricanes. , 2021, , .		9
41	A multi-rate sampling PMU-based event classification in active distribution grids with spectral graph neural network. Electric Power Systems Research, 2022, 211, 108145.	2.1	9
42	Modeling the output power of PV farms for power system adequacy assessment. , 2015, , .		8
43	Cybersecurity of Electric Vehicle Smart Charging Management Systems. , 2021, , .		8
44	A data-driven accurate battery model to use in probabilistic analyses of power systems. Journal of Energy Storage, 2021, 44, 103292.	3.9	8
45	Evaluation of wind capacity credit using discrete convolution considering the mechanical failure of wind turbines. , 2014, , .		7
46	A unified analysis of the impacts of stochasticity and low inertia of wind generation. , 2016, , .		7
47	Effective Load Demand of Electric Vehicles in Power System Adequacy Assessment. , 2018, , .		7
48	Proactive Generation Redispatch to Enhance Power System Operation Resilience during Hurricanes. , 2021, , .		7
49	A three-phase power flow solution method for unbalanced distribution networks. , 2011, , .		6
50	Reactive power compensation for reliability improvement of power systems. , 2016, , .		6
51	Reliability and environmental benefits of energy storage systems in firming up wind generation. , 2017, , .		6
52	A Comprehensive Analysis of Reliability-oriented Optimal Distribution System Reconfiguration. , 2018, , .		6
53	A Method to Evaluate the Maximum Hosting Capacity of Power Systems to Electric Vehicles. , 2020, , .		6
54	A Homotopy-Based Method for Robust Computation of Controlling Unstable Equilibrium Points. IEEE Transactions on Power Systems, 2020, 35, 1422-1431.	4.6	6

#	ARTICLE	IF	CITATIONS
55	Optimal Sizing and Siting of Multi-purpose Utility-scale Shared Energy Storage Systems. , 2021, , .		6
56	A GA-based Approach to Eco-driving of Electric Vehicles Considering Regenerative Braking. , 2021, , .		6
57	Multi-Timescale Risk-Constrained Volt/VAR Control of Distribution Grids with Electric Vehicles and Solar Inverters. , 2021, , .		6
58	Utility-Scale Shared Energy Storage: Business models for utility-scale shared energy storage systems and customer participation. IEEE Electrification Magazine, 2021, 9, 47-54.	1.8	6
59	Power flow analysis of distribution systems with embedded induction generators. , 2012, , .		5
60	A method to model the output power of wind farms in composite system reliability assessment. , 2014, , .		5
61	An analytical method for placement and sizing of distributed generation on distribution systems. , 2014, , .		5
62	Evaluation of wind power capacity value including effects of transmission system. , 2015, , .		5
63	A method for reliability improvement of microgrids. , 2016, , .		5
64	Use of homotopy-based approaches in finding Controlling Unstable Equilibrium Points in transient stability analysis. , 2016, , .		5
65	Demand Response based Power System Reliability Enhancement. , 2018, , .		5
66	Data-driven Assessment of Power System Reliability in Presence of Renewable Energy. , 2020, , .		5
67	PSS/E to RSCAD Model Conversion for Large Power Grids: Challenges and Solutions. , 2021, , .		5
68	A Cooperative Game Theory-based Approach to Sizing and Siting of Distributed Energy Resources. , 2021, , .		5
69	Volt-VAR Optimization in Distribution Networks Using Twin Delayed Deep Reinforcement Learning. , 2022, , .		5
70	Use of intelligent search methods in performing sensitivity analysis of power system reliability indices. , 2014, , .		4
71	Stacked revenue and technical benefits of a grid-connected energy storage system. , 2017, , .		4
72	Hierarchical droop controlled frequency optimization and energy management of a grid-connected microgrid. , 2017, , .		4

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73	Optimum Locations of Utility-Scale Shared Energy Storage Systems. , 2019, , .		4
74	Photovoltaic Hosting Capacity Estimation Considering the Impact of Electric Vehicles. , 2019, , .		4
75	Resilience Assessment Approach for Transmission Systems Considering Uncertainties of Ice Storms. , 2021, , .		4
76	Quantifying Resilience Value of Solar plus Storage in City of Reno. , 2021, , .		4
77	Chance-Constraint Volt-VAR Optimization in PV-Penetrated Distribution Networks. , 2022, , .		4
78	Allocating Reserves in Active Distribution Systems for Tertiary Frequency Regulation. , 2022, , .		4
79	Distribution Network Reconfiguration Using Deep Reinforcement Learning. , 2022, , .		4
80	Sensitivity analysis of reliability performance of multi-level converters. , 2012, , .		3
81	Optimal economic power dispatch in the presence of intermittent renewable energy sources. , 2014, , .		3
82	A risk sensitivity-based approach to hardening power systems against catastrophic failures. , 2014, , .		3
83	Capacity value of photovoltaic systems and their impacts on power system reliability. , 2017, , .		3
84	Sensitivity guided genetic algorithm for placement of distributed energy resources. , 2017, , .		3
85	An Artificial Neural Network based Approach to Electric Demand Response Implementation. , 2018, , .		3
86	Application of Graph Neural Network for Fault Location in PV Penetrated Distribution Grids. , 2021, , .		3
87	Risk-Averse Scheduling via Conservation Voltage Reduction in Unbalanced Distribution Feeders. , 2022, , .		3
88	Sensitivity analysis of power system reliability indices under emission constraints. , 2014, , .		2
89	A new method to evaluate the optimal penetration level of wind power. , 2017, , .		2
90	A Controlled Switching Approach to Reduction of Three-Phase Transformer Inrush Currents. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
91	A Two-stage Planning Strategy for Reliability Enhancement and Loss Reduction in Distribution Systems. , 2018, , .		2
92	A Sensitivity-based Approach for Optimal Siting of Distributed Energy Resources. , 2020, , .		2
93	Proactive Generation Redispatch Strategy Considering Unavailability of Renewable Energy Sources during Hurricanes. , 2021, , .		2
94	A Markov Decision Process to Enhance Power System Operation Resilience during Wildfires. , 2021, , .		2
95	An analytical method for constructing a probabilistic model of a wind farm. , 2014, , .		1
96	Consideration of the effects of voltage and reactive power constraints on composite system reliability. , 2014, , .		1
97	Reliability-Constrained Optimal Distribution System Reconfiguration. Studies in Computational Intelligence, 2015, , 265-289.	0.7	1
98	Quantification of storage necessary to firm up wind generation. , 2016, , .		1
99	A visualization tool for real-time dynamic contingency screening and remedial actions. , 2016, , .		1
100	A Cost Effective Energy Exchange Strategy to Improve Reliability of Microgrids. , 2018, , .		1
101	A Polynomial Chaos-based Approach to Sizing of Virtual Synchronous Generators. , 2020, , .		1
102	Probabilistic Sizing of Virtual Energy Storage Devices for Transient Stability Enhancement. , 2020, , .		1
103	Cyber-attack Detection on Distributed Frequency Control of Islanded MGs Using Machine Learning. , 2021, , .		1
104	Reliability and sensitivity analysis of composite power systems under emission constraints. , 2014, , .		0
105	Impacts of transient instability on power system reliability. , 2016, , .		0
106	Power system reliability enhancement and generation cost reduction in presence of variable resources. , 2016, , .		0
107	A Modified Direct Torque Control for Permanent Magnet Synchronous Machines (PMSMs). , 2018, , .		0
108	A Proactive Resilience Enhancement Strategy to Electric Distribution Systems during Hurricanes. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	A Homotopy-based Method for Robust Computation of Controlling Unstable Equilibrium Points. , 2020, , .		0
110	A Direct Method to Calculate Capacity Value of Variable Energy Resources. , 2020, , .		0
111	A Data-driven Shunt Dispatch Approach to Enhance Power System Resilience against Windstorms. , 2021, , .		0
112	Machine Learning Using High-Precision Data for Fault Location. , 2022, , .		0