

Amin Khodaei

List of Publications by Year in descending order

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114
papers

6,788
citations

94269

37
h-index

123241

61
g-index

114
all docs

114
docs citations

114
times ranked

5284
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Energy Management for Multi-Microgrid Under a Transactive Energy Framework With Distributionally Robust Optimization. IEEE Transactions on Smart Grid, 2022, 13, 599-612.	6.2	53
2	Machine Learning-Enabled Distribution Network Phase Identification. IEEE Transactions on Power Systems, 2021, 36, 842-850.	4.6	37
3	Three Lines of Defense for Wildfire Risk Management in Electric Power Grids: A Review. IEEE Access, 2021, 9, 61577-61593.	2.6	16
4	Multi-Criteria Decision-Making and Robust Optimization Methodology for Generator Sizing of a Microgrid. IEEE Access, 2021, 9, 142264-142275.	2.6	8
5	Sensitivity Analyses of CVR Measurement and Verification Methodologies to Data Availability and Quality. IEEE Access, 2021, 9, 157203-157214.	2.6	3
6	Robust Optimization Methodology for Generation Sizing of a Microgrid. , 2021, , .		1
7	Co-optimization generation and transmission planning for maximizing large-scale solar PV integration. International Journal of Electrical Power and Energy Systems, 2020, 118, 105723.	3.3	33
8	Quantum-Enhanced Grid of the Future: A Primer. IEEE Access, 2020, 8, 188993-189002.	2.6	21
9	Quantum Computing for Enhancing Grid Security. IEEE Transactions on Power Systems, 2020, 35, 4135-4137.	4.6	22
10	Conservation Voltage Reduction and Volt-VAR Optimization: Measurement and Verification Benchmarking. IEEE Access, 2020, 8, 50755-50770.	2.6	18
11	Market clearing in microgrid-integrated active distribution networks. Electric Power Systems Research, 2020, 183, 106263.	2.1	11
12	ComEd Grid Labs-Why the Power Sector Needs Advanced Labs. IEEE Power and Energy Magazine, 2020, 18, 128-135.	1.6	0
13	State-of-the-art in smart streetlight systems: a review. IET Smart Cities, 2020, 2, 24-33.	1.6	13
14	Sensitivity-based locational marginal value calculations in distribution grids. Electricity Journal, 2019, 32, 37-44.	1.3	2
15	Probabilistic load curtailment estimation using posterior probability model and twin support vector machine. Journal of Modern Power Systems and Clean Energy, 2019, 7, 665-675.	3.3	3
16	Least-cost operation of a battery swapping station with random customer requests. Energy, 2019, 172, 913-921.	4.5	65
17	Microgrid Value of Ramping. , 2019, , .		0
18	A Hierarchical Framework for Intelligent Traffic Management in Smart Cities. IEEE Transactions on Smart Grid, 2019, 10, 691-701.	6.2	32

#	ARTICLE	IF	CITATIONS
19	Leveraging Accuracy-Uncertainty Tradeoff in SVM to Achieve Highly Accurate Outage Predictions. IEEE Transactions on Power Systems, 2018, 33, 1139-1141.	4.6	43
20	Effective Dynamic Scheduling of Reconfigurable Microgrids. IEEE Transactions on Power Systems, 2018, 33, 5519-5530.	4.6	73
21	A Big Data Scale Algorithm for Optimal Scheduling of Integrated Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 274-282.	6.2	36
22	Market-Based Versus Price-Based Microgrid Optimal Scheduling. IEEE Transactions on Smart Grid, 2018, 9, 615-623.	6.2	74
23	Interactive Robust Model for Energy Service Providers Integrating Demand Response Programs in Wholesale Markets. IEEE Transactions on Smart Grid, 2018, 9, 2681-2690.	6.2	40
24	Multi-UAV Pre-Positioning and Routing for Power Network Damage Assessment. IEEE Transactions on Smart Grid, 2018, 9, 3643-3651.	6.2	66
25	Incentive Mechanism Design for Integrated Microgrids in Peak Ramp Minimization Problem. IEEE Transactions on Smart Grid, 2018, 9, 5774-5785.	6.2	58
26	A Comprehensive Battery Energy Storage Optimal Sizing Model for Microgrid Applications. IEEE Transactions on Power Systems, 2018, 33, 3968-3980.	4.6	201
27	Optimization-based distribution grid hosting capacity calculations. Applied Energy, 2018, 219, 350-360.	5.1	66
28	Battery Swapping Station as an Energy Storage for Capturing Distribution-Integrated Solar Variability. , 2018, , .		2
29	Optimal Scheduling of Integrated Microgrids in Holonic Distribution Grids. , 2018, , .		4
30	Optimal Energy Storage Sizing and Siting in Hybrid AC/DC Microgrids. , 2018, , .		9
31	Increasing Distribution Grid Hosting Capacity through Optimal Network Reconfiguration. , 2018, , .		13
32	Battery Energy Storage Requirements for Mitigating PV Output Fluctuations. , 2018, , .		3
33	Distribution asset management through coordinated microgrid scheduling. IET Smart Grid, 2018, 1, 159-168.	1.5	6
34	Day-Ahead Solar Forecasting Based on Multi-Level Solar Measurements. , 2018, , .		5
35	Distribution Market as a Ramping Aggregator for Grid Flexibility Support. , 2018, , .		1
36	Distribution Network Expansion Through Optimally Sized and Placed Distributed Energy Storage. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
37	AMI-Enabled Distribution Network Line Outage Identification via Multi-Label SVM. IEEE Transactions on Smart Grid, 2018, 9, 5470-5472.	6.2	44
38	Privacy-preserving optimal scheduling of integrated microgrids. Electric Power Systems Research, 2018, 163, 164-173.	2.1	22
39	Marginal Hosting Capacity Calculation for Electric Vehicle Integration in Active Distribution Networks. , 2018, , .		16
40	Optimizing Traffic Signal Settings in Smart Cities. IEEE Transactions on Smart Grid, 2017, 8, 2382-2393.	6.2	66
41	AC Versus DC Microgrid Planning. IEEE Transactions on Smart Grid, 2017, 8, 296-304.	6.2	335
42	Decentralized Reactive Power Compensation Using Nash Bargaining Solution. IEEE Transactions on Smart Grid, 2017, 8, 1679-1688.	6.2	46
43	Provisional Microgrid Planning. IEEE Transactions on Smart Grid, 2017, 8, 1096-1104.	6.2	70
44	Application of microgrids in providing ancillary services to the utility grid. Energy, 2017, 123, 555-563.	4.5	100
45	Probabilistic optimal scheduling of networked microgrids considering time-based demand response programs under uncertainty. Applied Energy, 2017, 198, 267-279.	5.1	182
46	Microgrid Economic Viability Assessment: An introduction to MG-REVALUE. Electricity Journal, 2017, 30, 7-11.	1.3	4
47	Application of Microgrids in Supporting Distribution Grid Flexibility. IEEE Transactions on Power Systems, 2017, 32, 3660-3669.	4.6	109
48	Hybrid AC/DC microgrid planning. Energy, 2017, 118, 37-46.	4.5	87
49	Model predictive control to two-stage stochastic dynamic economic dispatch problem. Control Engineering Practice, 2017, 69, 112-121.	3.2	12
50	Machine Learning Based Power Grid Outage Prediction in Response to Extreme Events. IEEE Transactions on Power Systems, 2017, 32, 3315-3316.	4.6	105
51	Machine learning applications in estimating transformer loss of life. , 2017, , .		10
52	Capturing distribution grid-integrated solar variability and uncertainty using microgrids. , 2017, , .		4
53	Improving power grid resilience through predictive outage estimation. , 2017, , .		21
54	Two-stage hybrid day-ahead solar forecasting. , 2017, , .		11

#	ARTICLE	IF	CITATIONS
55	Battery energy storage sizing for commercial customers. , 2017, , .		9
56	Optimal battery energy storage sizing for reducing wind generation curtailment. , 2017, , .		7
57	Optimal loading capacity in distribution grids. , 2017, , .		0
58	Optimal design of battery energy storage in stand-alone brownfield microgrids. , 2017, , .		5
59	Net-zero settlement in distribution markets. , 2017, , .		12
60	Valuation of microgrid unused capacity in islanded operation. , 2017, , .		4
61	Coordinated AC/DC microgrid optimal scheduling. , 2017, , .		6
62	State-Of-The-Art in Microgrid-Integrated Distributed Energy Storage Sizing. Energies, 2017, 10, 1421.	1.6	39
63	Elevating prosumers to provisional microgrids. , 2017, , .		7
64	Leveraging sensory data in estimating transformer lifetime. , 2017, , .		5
65	Transactive-Market-Based Operation of Distributed Electrical Energy Storage with Grid Constraints. Energies, 2017, 10, 1891.	1.6	28
66	Levelized cost of energy calculations for microgrids. , 2016, , .		22
67	Distribution market clearing and settlement. , 2016, , .		23
68	Leveraging microgrids for capturing uncertain distribution network net load ramping. , 2016, , .		5
69	Energy return on investment: Impact of societal energy yields on economic sustainability. , 2016, , .		1
70	Event-driven security-constrained unit commitment with component outage estimation based on machine learning method. , 2016, , .		8
71	Static hybrid AC/DC microgrid planning. , 2016, , .		10
72	Day-ahead solar forecasting using time series stationarization and feed-forward neural network. , 2016, , .		6

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73	Event-driven Security-Constrained Unit Commitment. , 2016, , .		5
74	Interdependency of transmission and distribution pricing. , 2016, , .		8
75	Distributed algorithms for peak ramp minimization problem in smart grid. , 2016, , .		5
76	Application of microgrids in addressing distribution network net-load ramping. , 2016, , .		20
77	Distribution Markets. IEEE Power and Energy Magazine, 2016, 14, 102-106.	1.6	30
78	The Interface of Power: Moving Toward Distribution System Operators. IEEE Power and Energy Magazine, 2016, 14, 46-51.	1.6	52
79	Investigating the necessity of distribution markets in accomodating high penetration microgrids. , 2016, , .		10
80	Managing the microgrid net load variability. , 2016, , .		2
81	The Utility and Grid of the Future: Challenges, Needs, and Trends. IEEE Power and Energy Magazine, 2016, 14, 29-37.	1.6	35
82	System Hardening and Condition-Based Maintenance for Electric Power Infrastructure Under Hurricane Effects. IEEE Transactions on Reliability, 2016, 65, 1457-1470.	3.5	27
83	Long-term solar generation forecasting. , 2016, , .		15
84	Treatment of uncertainty for next generation power systems: State-of-the-art in stochastic optimization. Electric Power Systems Research, 2016, 141, 233-245.	2.1	50
85	Determination of optimal size and depth of discharge for battery energy storage in standalone microgrids. , 2016, , .		14
86	Standard measurement of carbon footprints. , 2016, , .		3
87	Optimal microgrid placement for enhancing power system resilience in response to weather events. , 2016, , .		24
88	Resilience-constrained unit commitment considering the impact of microgrids. , 2016, , .		5
89	Power fluctuation reduction in wind turbine generator systems. , 2016, , .		2
90	An efficient preprocessing approach for uncertainty consideration in microgrids. , 2016, , .		5

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91	Distributed energy storage sizing for microgrid applications. , 2016, , .		17
92	Determination of battery energy storage technology and size for standalone microgrids. , 2016, , .		19
93	Guest Editorial Power Grid Resilience. IEEE Transactions on Smart Grid, 2016, 7, 2805-2806.	6.2	4
94	Electric Power Grid Restoration Considering Disaster Economics. IEEE Access, 2016, 4, 639-649.	2.6	46
95	Market-based microgrid optimal scheduling. , 2015, , .		20
96	Transmission network restoration considering AC power flow constraints. , 2015, , .		9
97	Proactive Recovery of Electric Power Assets for Resiliency Enhancement. IEEE Access, 2015, 3, 99-109.	2.6	154
98	Roadmaps for the Utility of the Future. Electricity Journal, 2015, 28, 7-17.	1.3	12
99	Stochastic Pre-hurricane Restoration Planning for Electric Power Systems Infrastructure. IEEE Transactions on Smart Grid, 2015, 6, 1046-1054.	6.2	236
100	State of the Art in Research on Microgrids: A Review. IEEE Access, 2015, 3, 890-925.	2.6	850
101	Microgrid Planning Under Uncertainty. IEEE Transactions on Power Systems, 2015, 30, 2417-2425.	4.6	278
102	Provisional Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 1107-1115.	6.2	159
103	Dynamic maintenance scheduling for power systems incorporating hurricane effects. , 2014, , .		16
104	Microgrid Optimal Scheduling With Multi-Period Islanding Constraints. IEEE Transactions on Power Systems, 2014, 29, 1383-1392.	4.6	323
105	Resiliency-Oriented Microgrid Optimal Scheduling. IEEE Transactions on Smart Grid, 2014, 5, 1584-1591.	6.2	380
106	Microgrid-Based Co-Optimization of Generation and Transmission Planning in Power Systems. IEEE Transactions on Power Systems, 2013, 28, 1582-1590.	4.6	218
107	A distribute parallel approach for big data scale optimal power flow with security constraints. , 2013, , .		10
108	Application of real-time monitoring in efficient operation of distributed static compensators. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
109	Reliability-Constrained Optimal Sizing of Energy Storage System in a Microgrid. IEEE Transactions on Smart Grid, 2012, 3, 2056-2062.	6.2	454
110	Coordination of Short-Term Operation Constraints in Multi-Area Expansion Planning. IEEE Transactions on Power Systems, 2012, 27, 2242-2250.	4.6	88
111	Optimal operation of a community-based microgrid. , 2011, , .		9
112	SCUC With Hourly Demand Response Considering Intertemporal Load Characteristics. IEEE Transactions on Smart Grid, 2011, 2, 564-571.	6.2	211
113	Transmission Switching in Expansion Planning. IEEE Transactions on Power Systems, 2010, 25, 1722-1733.	4.6	134
114	Contingency-Constrained PMU Placement in Power Networks. IEEE Transactions on Power Systems, 2010, 25, 516-523.	4.6	343