Shunbo Lei

List of Publications by Year
in descending order

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42 papers	1,565 citations	471371 17 h-index	454834 30 g-index
42 all docs	42 docs citations	42 times ranked	1091 citing authors

#	Article	IF	Citations
1	Resilient Disaster Recovery Logistics of Distribution Systems: Co-Optimize Service Restoration With Repair Crew and Mobile Power Source Dispatch. IEEE Transactions on Smart Grid, 2019, 10, 6187-6202.	6.2	228
2	Routing and Scheduling of Mobile Power Sources for Distribution System Resilience Enhancement. IEEE Transactions on Smart Grid, 2019, 10, 5650-5662.	6.2	217
3	Resilience Enhancement With Sequentially Proactive Operation Strategies. IEEE Transactions on Power Systems, 2017, 32, 2847-2857.	4.6	153
4	Mobile Emergency Generator Pre-Positioning and Real-Time Allocation for Resilient Response to Natural Disasters. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	149
5	Radiality Constraints for Resilient Reconfiguration of Distribution Systems: Formulation and Application to Microgrid Formation. IEEE Transactions on Smart Grid, 2020, 11, 3944-3956.	6.2	105
6	Robust Risk-Constrained Unit Commitment With Large-Scale Wind Generation: An Adjustable Uncertainty Set Approach. IEEE Transactions on Power Systems, 2017, 32, 723-733.	4.6	101
7	Identification of Critical Switches for Integrating Renewable Distributed Generation by Dynamic Network Reconfiguration. IEEE Transactions on Sustainable Energy, 2018, 9, 420-432.	5.9	81
8	MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach. IEEE Transactions on Smart Grid, 2020, 11, 3620-3631.	6.2	73
9	Remote-Controlled Switch Allocation Enabling Prompt Restoration of Distribution Systems. IEEE Transactions on Power Systems, 2018, 33, 3129-3142.	4.6	71
10	A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. IEEE Transactions on Power Systems, 2020, 35, 496-507.	4.6	59
11	Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. IEEE Transactions on Smart Grid, 2020, 11, 2498-2510.	6.2	46
12	Uncertainty management in power system operation. CSEE Journal of Power and Energy Systems, 2015, 1, 28-35.	1.7	45
13	Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events. IEEE Transactions on Smart Grid, 2020, 11, 5383-5395.	6.2	36
14	Unit Commitment Incorporating Spatial Distribution Control of Air Pollutant Dispersion. IEEE Transactions on Industrial Informatics, 2017, 13, 995-1005.	7.2	26
15	Distributionally robust optimal dispatch of CCHP campus microgrids considering the time-delay of pipelines and the uncertainty of renewable energy. Energy, 2022, 239, 122200.	4.5	26
16	Quantification of Intra-hour Security-Constrained Flexibility Region. IEEE Transactions on Sustainable Energy, 2017, 8, 671-684.	5.9	23
17	Restoration of Power Distribution Systems With Multiple Data Centers as Critical Loads. IEEE Transactions on Smart Grid, 2019, 10, 5294-5307.	6.2	20
18	Multiperiod Risk-Limiting Dispatch in Power Systems With Renewables Integration. IEEE Transactions on Industrial Informatics, 2017, 13, 1843-1854.	7.2	12

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19	Sample Robust Scheduling of Electricity-Gas Systems Under Wind Power Uncertainty. IEEE Transactions on Power Systems, 2021, 36, 5889-5900.	4.6	12
20	Long-Term Voltage Stability-Constrained Coordinated Scheduling for Gas and Power Grids With Uncertain Wind Power. IEEE Transactions on Sustainable Energy, 2022, 13, 363-377.	5.9	11
21	Restoration Strategy for Active Distribution Systems Considering Endogenous Uncertainty in Cold Load Pickup. IEEE Transactions on Smart Grid, 2022, 13, 2690-2702.	6.2	11
22	Coordinated scheduling of integrated power and gas grids in consideration of gas flow dynamics. Energy, 2021, 220, 119760.	4.5	8
23	Cybersecurity Enhancement for Multi-Infeed High-Voltage DC Systems. IEEE Transactions on Smart Grid, 2022, 13, 3227-3240.	6.2	8
24	Power economic dispatch against extreme weather conditions: The price of resilience. Renewable and Sustainable Energy Reviews, 2022, 157, 111994.	8.2	7
25	Overhead transmission line outage rate estimation under wind storms. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 57-66.	0.8	5
26	Sequential steady-state security region-based transmission power system resilience enhancement. Renewable and Sustainable Energy Reviews, 2021, 151, 111533.	8.2	5
27	Risk assessment of critical time to renewable operation with steady-state security region. , 2014, , .		4
28	Dynamic distribution network reconfiguration considering travel behaviors and battery degradation of electric vehicles. , 2017, , .		4
29	Best response-based individually look-ahead scheduling for natural gas and power systems. Applied Energy, 2021, 304, 117673.	5.1	4
30	Robust generation dispatch with wind power considering air pollutant dispersion. , 2015, , .		3
31	Exploration of tensor decomposition applied to commercial building baseline estimation. , 2019, , .		2
32	Performance of Existing Methods in Baselining Demand Response From Commercial Building HVAC Fans. ASME Journal of Engineering for Sustainable Buildings and Cities, 2021, 2, .	0.6	2
33	Baseline estimation of commercial building HVAC fan power using tensor completion. Electric Power Systems Research, 2020, 189, 106624.	2.1	2
34	Closure to Discussion on â€œA New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generationâ€• IEEE Transactions on Power Systems, 2020, 35, 4975-4976.	4.6	2
35	Considering geographical distribution of pollutants emission in production costing. , 2015, , .		1
36	Restoration of Power Distribution Systems with Multiple Data Centers as Critical Loads. , 2019, , .		1

#	Article	IF	Citations
37	Look-Ahead Strategic Offering for a Virtual Power Plant: A Multi-Stage Stochastic Programming Approach. , 2019, , .		1
38	Multi-Stage Stochastic Planning of Wind Generation Considering Decision-Dependent Uncertainty in Wind Power Curve. , 2019, , .		1
39	A distribution network restoration decision support algorithm based on multi-agent system. , 2016, , .		0
40	Robust Strategy for Gas and Electricity Network Considering Potential Threat and Wind Uncertainty. , 2018, , .		0
41	A MILP Production Costing Method Realizing Environmental Benefits of Wind Power. , 2019, , .		0
42	Generation Scheduling to Limit PM₂.₅Emissions and Dispersion: A Study on the Seasonal Management System of South Korea. , 2020, , .		0