Zhigang Li

List of Publications by Year
in descending order

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Version: 2024-02-01

52 papers	2,654 citations	304602 22 h-index	315616 38 g-index
52 all docs	52 docs citations	52 times ranked	1833 citing authors

#	Article	IF	Citations
1	Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. IEEE Transactions on Sustainable Energy, 2016, 7, 12-22.	5.9	534
2	Transmission-Constrained Unit Commitment Considering Combined Electricity and District Heating Networks. IEEE Transactions on Sustainable Energy, 2016, 7, 480-492.	5.9	319
3	Dynamic Price Vector Formation Model-Based Automatic Demand Response Strategy for PV-Assisted EV Charging Stations. IEEE Transactions on Smart Grid, 2017, 8, 2903-2915.	6.2	208
4	Adjustable Robust Real-Time Power Dispatch With Large-Scale Wind Power Integration. IEEE Transactions on Sustainable Energy, 2015, 6, 357-368.	5.9	179
5	Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. IEEE Transactions on Sustainable Energy, 2015, 6, 1377-1388.	5.9	123
6	Pattern Classification and PSO Optimal Weights Based Sky Images Cloud Motion Speed Calculation Method for Solar PV Power Forecasting. IEEE Transactions on Industry Applications, 2019, 55, 3331-3342.	3.3	107
7	Decentralized Multi-Area Dynamic Economic Dispatch Using Modified Generalized Benders Decomposition. IEEE Transactions on Power Systems, 2016, 31, 526-538.	4.6	105
8	Decentralized Reactive Power Optimization Method for Transmission and Distribution Networks Accommodating Large-Scale DG Integration. IEEE Transactions on Sustainable Energy, 2017, 8, 363-373.	5.9	103
9	Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. IEEE Transactions on Sustainable Energy, 2015, 6, 583-594.	5.9	92
10	Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. IEEE Transactions on Power Systems, 2013, 28, 4516-4527.	4.6	86
11	Fully distributed multiâ€area economic dispatch method for active distribution networks. IET Generation, Transmission and Distribution, 2015, 9, 1341-1351.	1.4	81
12	Approximate Linear Power Flow Using Logarithmic Transform of Voltage Magnitudes With Reactive Power and Transmission Loss Consideration. IEEE Transactions on Power Systems, 2018, 33, 4593-4603.	4.6	81
13	Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2701-2713.	4.6	80
14	Coordinated dispatch of electric power and district heating networks: A decentralized solution using optimality condition decomposition. Applied Energy, 2017, 206, 1508-1522.	5.1	78
15	Robust Scheduling of Integrated Electricity and Heating System Hedging Heating Network Uncertainties. IEEE Transactions on Smart Grid, 2020, 11, 1543-1555.	6.2	54
16	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. IEEE Transactions on Power Systems, 2017, 32, 354-367.	4.6	47
17	A Dynamic Equivalent Model for District Heating Networks: Formulation, Existence and Application in Distributed Electricity-Heat Operation. IEEE Transactions on Smart Grid, 2021, 12, 2685-2695.	6.2	46
18	Decentralized state estimation of combined heat and power systems using the asynchronous alternating direction method of multipliers. Applied Energy, 2019, 248, 600-613.	5.1	45

#	Article	IF	Citations
19	Robust Look-Ahead Power Dispatch With Adjustable Conservativeness Accommodating Significant Wind Power Integration. IEEE Transactions on Sustainable Energy, 2015, 6, 781-790.	5.9	32
20	Data-driven real-time power dispatch for maximizing variable renewable generation. Applied Energy, 2016, 170, 304-313.	5.1	30
21	Multi-stage contingency-constrained co-planning for electricity-gas systems interconnected with gas-fired units and power-to-gas plants using iterative Benders decomposition. Energy, 2019, 180, 689-701.	4.5	30
22	Many-objective optimization for coordinated operation of integrated electricity and gas network. Journal of Modern Power Systems and Clean Energy, 2017, 5, 350-363.	3.3	28
23	Equivalent modeling of active distribution network considering the spatial uncertainty of renewable energy resources. International Journal of Electrical Power and Energy Systems, 2019, 112, 83-91.	3.3	21
24	A Non-Iterative Decoupled Solution for Robust Integrated Electricity-Heat Scheduling Based on Network Reduction. IEEE Transactions on Sustainable Energy, 2021, 12, 1473-1488.	5.9	18
25	Relaxed Alternating Direction Method of Multipliers for Hedging Communication Packet Loss in Integrated Electrical and Heating System. Journal of Modern Power Systems and Clean Energy, 2020, 8, 874-883.	3.3	16
26	Dynamic energy flow analysis of integrated gas and electricity systems using the holomorphic embedding method. Applied Energy, 2022, 309, 118345.	5.1	14
27	Decentralized State Estimation of Combined Heat and Power System Considering Communication Packet Loss. Journal of Modern Power Systems and Clean Energy, 2020, 8, 646-656.	3.3	11
28	Online Area Load Modeling in Power Systems Using Enhanced Reinforcement Learning. Energies, 2017, 10, 1852.	1.6	10
29	Fully decentralized multiarea reactive power optimization considering practical regulation constraints of devices. International Journal of Electrical Power and Energy Systems, 2019, 105, 351-364.	3.3	10
30	Multi-attribute decision analysis for optimal design of park-level integrated energy systems based on load characteristics. Energy, 2022, 254, 124379.	4.5	10
31	Order reduction method for high-order dynamic analysis of heterogeneous integrated energy systems. Applied Energy, 2022, 308, 118265.	5.1	9
32	Dynamic State Estimation of Combined Heat and Power System Considering Quasi-Dynamics of Temperature in Pipelines. , 2018, , .		6
33	A variant of Newtonâ€“Raphson method with thirdâ€order convergence for energy flow calculation of the integrated electric power and natural gas system. IET Generation, Transmission and Distribution, 2022, 16, 2766-2776.	1.4	6
34	A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 1060-1070.	5.9	5
35	Data-Driven Dispatchable Regions With Potentially Active Boundaries for Renewable Power Generation: Concept and Construction. IEEE Transactions on Sustainable Energy, 2022, 13, 882-891.	5.9	4
36	Dynamic economic dispatch with spinning reserve constraints considering wind power integration. , 2013, , .		3

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37	An Equivalent Modeling Method for Multi-port Area Load Based on the Extended Generalized ZIP Load Model. , 2018, , .		3
38	Efficient Robust Look-Ahead Dispatch Incorporating Critical Region Preparation in Gap Time. IEEE Transactions on Power Systems, 2021, 36, 4840-4843.	4.6	3
39	Power Flow Analysis of Integrated Gas and Electricity Systems Using the Fast and Flexible Holomorphic Embedding Method. , 2020, , .		3
40	Exact relaxation of complementary constraints for optimal bidding strategy for electric vehicle aggregators. IET Renewable Power Generation, 2022, 16, 2493-2507.	1.7	3
41	Twoâ€level areaâ€load modelling for OPF of power system using reinforcement learning. IET Generation, Transmission and Distribution, 2019, 13, 4141-4149.	1.4	2
42	Probabilistic active distribution network equivalence with correlated uncertain injections for grid analysis. IET Renewable Power Generation, 2020, 14, 1964-1977.	1.7	2
43	Electrical Network Equivalent Modeling Method with Boundary Buses Interconnected. , 2019, , .		1
44	On Convergence Performance and its Common Domain of the Fast and Flexible Holomorphic Embedding Method for Power Flow Analysis. , 2020, , .		1
45	Distributed Multi-Area Economic Dispatch Considering Reactive Power Using Critical Region Projection. , 2020, , .		1
46	Distributionally Robust Economic Dispatch Considering the Uncertainty and Correlation of Wind Farm Outputs. , 2020, , .		1
47	Optimal Scheduling of Integrated Electricity and District Cooling Systems with Ice Storage. , 2021, , .		1
48	Multi-objective Group Search Optimization of District Cooling System Considering both Economic and Efficiency Aspects. , 2021, , .		1
49	Review on Modeling and Optimal Scheduling in Integrated Energy Systems. , 2021, , .		1
50	Closure to Discussion on â€œApproximate Linear Power Flow Using Logarithmic Transform of Voltage Magnitudes With Reactive Power and Transmission Loss Considerationâ€• IEEE Transactions on Power Systems, 2019, 34, 3985-3985.	4.6	0
51	Decentralized Distributionally Robust Dispatch of Multi-Regional Power Systems Considering the Correlated Variable Wind Power. , 2021, , .		0
52	A Non-iterative Solution Method for DC Optimal Power Flow Based on Holomorphic Embedding. , 2021, , .		0