

Zhigang Li

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,654
citations

304602

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docs citations

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times ranked

1833
citing authors

#	ARTICLE	IF	CITATIONS
1	A variant of Newton-Raphson method with third-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
2	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
3	Order reduction method for high-order dynamic analysis of heterogeneous integrated energy systems. Applied Energy, 2022, 308, 118265.	5.1	9
4	Dynamic energy flow analysis of integrated gas and electricity systems using the holomorphic embedding method. Applied Energy, 2022, 309, 118345.	5.1	14
5	Exact relaxation of complementary constraints for optimal bidding strategy for electric vehicle aggregators. IET Renewable Power Generation, 2022, 16, 2493-2507.	1.7	3
6	Multi-attribute decision analysis for optimal design of park-level integrated energy systems based on load characteristics. Energy, 2022, 254, 124379.	4.5	10
7	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
8	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
9	Decentralized Distributionally Robust Dispatch of Multi-Regional Power Systems Considering the Correlated Variable Wind Power. , 2021, , .		0
10	Efficient Robust Look-Ahead Dispatch Incorporating Critical Region Preparation in Gap Time. IEEE Transactions on Power Systems, 2021, 36, 4840-4843.	4.6	3
11	Optimal Scheduling of Integrated Electricity and District Cooling Systems with Ice Storage. , 2021, , .		1
12	Multi-objective Group Search Optimization of District Cooling System Considering both Economic and Efficiency Aspects. , 2021, , .		1
13	A Non-iterative Solution Method for DC Optimal Power Flow Based on Holomorphic Embedding. , 2021, , .		0
14	Review on Modeling and Optimal Scheduling in Integrated Energy Systems. , 2021, , .		1
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 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
17	Power Flow Analysis of Integrated Gas and Electricity Systems Using the Fast and Flexible Holomorphic Embedding Method. , 2020, , .		3
18	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

#	ARTICLE	IF	CITATIONS
19	On Convergence Performance and its Common Domain of the Fast and Flexible Holomorphic Embedding Method for Power Flow Analysis. , 2020, , .		1
20	Distributed Multi-Area Economic Dispatch Considering Reactive Power Using Critical Region Projection. , 2020, , .		1
21	Probabilistic active distribution network equivalence with correlated uncertain injections for grid analysis. IET Renewable Power Generation, 2020, 14, 1964-1977.	1.7	2
22	Distributionally Robust Economic Dispatch Considering the Uncertainty and Correlation of Wind Farm Outputs. , 2020, , .		1
23	Electrical Network Equivalent Modeling Method with Boundary Buses Interconnected. , 2019, , .		1
24	Closure to Discussion on "Approximate Linear Power Flow Using Logarithmic Transform of Voltage Magnitudes With Reactive Power and Transmission Loss Consideration" IEEE Transactions on Power Systems, 2019, 34, 3985-3985.	4.6	0
25	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
26	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
27	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
28	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
29	Two-level area-load modelling for OPF of power system using reinforcement learning. IET Generation, Transmission and Distribution, 2019, 13, 4141-4149.	1.4	2
30	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
31	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
32	An Equivalent Modeling Method for Multi-port Area Load Based on the Extended Generalized ZIP Load Model. , 2018, , .		3
33	Dynamic State Estimation of Combined Heat and Power System Considering Quasi-Dynamics of Temperature in Pipelines. , 2018, , .		6
34	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. IEEE Transactions on Power Systems, 2017, 32, 354-367.	4.6	47
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Coordinated dispatch of electric power and district heating networks: A decentralized solution using optimality condition decomposition. <i>Applied Energy</i> , 2017, 206, 1508-1522.	5.1	78
38	Decentralized Reactive Power Optimization Method for Transmission and Distribution Networks Accommodating Large-Scale DG Integration. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 363-373.	5.9	103
39	Online Area Load Modeling in Power Systems Using Enhanced Reinforcement Learning. <i>Energies</i> , 2017, 10, 1852.	1.6	10
40	Data-driven real-time power dispatch for maximizing variable renewable generation. <i>Applied Energy</i> , 2016, 170, 304-313.	5.1	30
41	Decentralized Multi-Area Dynamic Economic Dispatch Using Modified Generalized Benders Decomposition. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 526-538.	4.6	105
42	A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 1060-1070.	5.9	5
43	Transmission-Constrained Unit Commitment Considering Combined Electricity and District Heating Networks. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 480-492.	5.9	319
44	Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 2701-2713.	4.6	80
45	Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 12-22.	5.9	534
46	Adjustable Robust Real-Time Power Dispatch With Large-Scale Wind Power Integration. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 357-368.	5.9	179
47	Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 583-594.	5.9	92
48	Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 1377-1388.	5.9	123
49	Robust Look-Ahead Power Dispatch With Adjustable Conservativeness Accommodating Significant Wind Power Integration. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 781-790.	5.9	32
50	Fully distributed multi-area economic dispatch method for active distribution networks. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 1341-1351.	1.4	81
51	Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 4516-4527.	4.6	86
52	Dynamic economic dispatch with spinning reserve constraints considering wind power integration. , 2013, , .		3