

# Zhi Wu

## List of Publications by Year in descending order

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83  
papers

3,187  
citations

159358

30  
h-index

155451

55  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2354  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Spatial Branch-and-Bound Algorithm for Non-Convex Optimal Electricity-Gas Flow. IEEE Transactions on Power Systems, 2022, 37, 1326-1339.	4.6	8
2	A type of piecewise and modular energy storage topology achieved by dual carrier cross phase shift SPWM control. IET Power Electronics, 2022, 15, 463-475.	1.5	2
3	Decentralized Game-Based Robustly Planning Scheme for Distribution Network and Microgrids Considering Bilateral Energy Trading. IEEE Transactions on Sustainable Energy, 2022, 13, 803-817.	5.9	10
4	Resilience enhancement strategy for multi-energy systems considering multi-stage recovery process and multi-energy coordination. Energy, 2022, 241, 122834.	4.5	20
5	Application of two-stage robust optimization theory in power system scheduling under uncertainties: A review and perspective. Energy, 2022, 251, 123942.	4.5	29
6	A novel dynamic simulation approach for Gas-Heat-Electric coupled system. Applied Energy, 2022, 315, 118999.	5.1	4
7	Distributed chance-constrained based total energy supply capability evaluation method for integrated power and natural gas system. International Journal of Electrical Power and Energy Systems, 2022, 141, 108193.	3.3	8
8	Security-constrained AC-DC hybrid distribution system expansion planning with high penetration of renewable energy. International Journal of Electrical Power and Energy Systems, 2022, 142, 108285.	3.3	5
9	Multistage Scheduling of Regional Power Grids Against Sequential Outage and Power Uncertainties. IEEE Transactions on Smart Grid, 2022, 13, 4624-4637.	6.2	6
10	Dynamic energy flow analysis of the heat-electricity integrated energy systems with a novel decomposition-iteration algorithm. Applied Energy, 2022, 322, 119492.	5.1	12
11	Dynamic Optimal Energy Flow in the Heat and Electricity Integrated Energy System. IEEE Transactions on Sustainable Energy, 2021, 12, 179-190.	5.9	57
12	A Historical-Correlation-Driven Robust Optimization Approach for Microgrid Dispatch. IEEE Transactions on Smart Grid, 2021, 12, 1135-1148.	6.2	23
13	Trilayer Stackelberg Game Approach for Robustly Power Management in Community Grids. IEEE Transactions on Industrial Informatics, 2021, 17, 4073-4083.	7.2	18
14	Partitional Decoupling Method for Fast Calculation of Energy Flow in a Large-Scale Heat and Electricity Integrated Energy System. IEEE Transactions on Sustainable Energy, 2021, 12, 501-513.	5.9	55
15	Optimized dispatching of city-scale integrated energy system considering the flexibilities of city gas gate station and line packing. Applied Energy, 2021, 290, 116689.	5.1	21
16	Deep-Reinforcement-Learning-Based Two-Timescale Voltage Control for Distribution Systems. Energies, 2021, 14, 3540.	1.6	7
17	Flexible expansion planning of distribution system integrating multiple renewable energy sources: An approximate dynamic programming approach. Energy, 2021, 226, 120367.	4.5	32
18	Robust Multi-Layer Energy Management and Control Methodologies for Reefer Container Park in Port Terminal. Energies, 2021, 14, 4456.	1.6	2

#	ARTICLE	IF	CITATIONS
19	Superposition-principle based decoupling method for energy flow calculation in district heating networks. Applied Energy, 2021, 295, 117032.	5.1	8
20	Investment equilibrium of an integrated multi-stakeholder electricity-gas-hydrogen system. Renewable and Sustainable Energy Reviews, 2021, 150, 111407.	8.2	11
21	Dynamic Security Control in Heat and Electricity Integrated Energy System With an Equivalent Heating Network Model. IEEE Transactions on Smart Grid, 2021, 12, 4788-4798.	6.2	25
22	Electrification of Online Ride-Hailing Vehicles in China: Intention Modelling and Market Prediction. Energies, 2021, 14, 7380.	1.6	0
23	An Analytical Model of Heating Networks for Dynamic Simulation in Integrated Energy Systems. , 2021, , .		1
24	Multi-objective Optimization Planning of Total Supply Capability Evaluation in Distribution Network Considering Network Reconfiguration and Demand Response. , 2021, , .		0
25	A Multi-Regional Coordinated Peer-to-Peer Energy Trading Market Mechanism in Distribution Networks. , 2021, , .		0
26	Optimal PMU Placement in Distribution Networks for Improving State Estimation Accuracy and Fault Observability. , 2021, , .		3
27	Robustly Multi-Microgrid Scheduling: Stakeholder-Parallelizing Distributed Optimization. IEEE Transactions on Sustainable Energy, 2020, 11, 988-1001.	5.9	51
28	Synchronously Decentralized Adaptive Robust Planning Method for Multi-Stakeholder Integrated Energy Systems. IEEE Transactions on Sustainable Energy, 2020, 11, 1128-1139.	5.9	30
29	Optimized scheduling of multi-region Gas and Power Complementary system considering tiered gas tariff. Energy, 2020, 193, 116677.	4.5	11
30	Adaptive Robust Dispatch of Integrated Energy System Considering Uncertainties of Electricity and Outdoor Temperature. IEEE Transactions on Industrial Informatics, 2020, 16, 4691-4702.	7.2	51
31	Thermal Inertial Aggregation Model for Integrated Energy Systems. IEEE Transactions on Power Systems, 2020, 35, 2374-2387.	4.6	71
32	Coordinated allocation of distributed generation resources and electric vehicle charging stations in distribution systems with vehicle-to-grid interaction. Energy, 2020, 192, 116631.	4.5	82
33	Cyber-attack Detection Strategy Based on Distribution System State Estimation. Journal of Modern Power Systems and Clean Energy, 2020, 8, 669-678.	3.3	23
34	A Flexible Planning Model for Distribution Network and Renewable Energy Integration considering Source and Load Uncertainty. , 2020, , .		0
35	An Interval Power Flow Method based on Linearized DistFlow Equations for Radial Distribution Systems. , 2020, , .		6
36	Non-cooperative game-based multilateral contract transactions in power-heating integrated systems. Applied Energy, 2020, 268, 114930.	5.1	36

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37	Feasibility analysis of utilising underground hydrogen storage facilities in integrated energy system: Case studies in China. <i>Applied Energy</i> , 2020, 269, 115140.	5.1	61
38	AC/DC Hybrid Distribution System Expansion Planning Under Long-Term Uncertainty Considering Flexible Investment. <i>IEEE Access</i> , 2020, 8, 94956-94967.	2.6	11
39	Bi-level mixed-integer planning for electricity-hydrogen integrated energy system considering leveled cost of hydrogen. <i>Applied Energy</i> , 2020, 270, 115176.	5.1	68
40	Energy Trading and Generalized Nash Equilibrium in Combined Heat and Power Market. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 3378-3387.	4.6	32
41	Bi-Level Planning of Multi-Functional Vehicle Charging Stations Considering Land Use Types. <i>Energies</i> , 2020, 13, 1283.	1.6	16
42	Dynamic EV Charging Pricing Methodology for Facilitating Renewable Energy With Consideration of Highway Traffic Flow. <i>IEEE Access</i> , 2020, 8, 13161-13178.	2.6	38
43	Optimal Planning for Electricity-Hydrogen Integrated Energy System Considering Power to Hydrogen and Heat and Seasonal Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 2662-2676.	5.9	252
44	A Novel Acceleration Strategy for N-I Contingency Screening in Distribution System. , 2020, , .		4
45	Robust Microgrid Dispatch With Flexible Recourse States via Accelerated C & CG Algorithm. , 2020, , .		0
46	A Decentralized Robust planning Approach For Smart Buildings Considering Bilateral Transactions With Fair Market Clearing Strategy. , 2020, , .		1
47	A Novel Cross Iteration Method for Dynamic Energy Flow Calculation of the Hot-water Heating Network in the Integrated Energy System. , 2020, , .		1
48	Interval-Partitioned Uncertainty Constrained Robust Dispatch for AC/DC Hybrid Microgrids With Uncontrollable Renewable Generators. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 4603-4614.	6.2	40
49	A Two-Stage Game Model for Combined Heat and Power Trading Market. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 506-517.	4.6	36
50	CRSO approach for microgrid power dispatching. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 2208-2215.	1.4	7
51	Potential of Model-Free Control for Demand-Side Management Considering Real-Time Pricing. <i>Energies</i> , 2019, 12, 2587.	1.6	4
52	Robust Energy Management in Active Distribution Systems Considering Temporal and Spatial Correlation. <i>IEEE Access</i> , 2019, 7, 153635-153649.	2.6	17
53	Design and Evaluation of Operational Scheduling Approaches for HCNG Penetrated Integrated Energy System. <i>IEEE Access</i> , 2019, 7, 87792-87807.	2.6	16
54	Optimal design and operation of multi-energy system with load aggregator considering nodal energy prices. <i>Applied Energy</i> , 2019, 239, 280-295.	5.1	68

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55	Artificial intelligence based smart energy community management: A reinforcement learning approach. CSEE Journal of Power and Energy Systems, 2019, , .	1.7	72
56	Grid Interconnection via Fractional Frequency Transmission System. , 2019, , .		3
57	Fault Location in Distribution Networks Using PMU Data and Interval Algorithm. , 2019, , .		2
58	A Data-Driven Scheduling Approach for Hydrogen Penetrated Energy System Using LSTM Network. Sustainability, 2019, 11, 6784.	1.6	2
59	Resilienceâ€directional robust power dispatching of microgrids under meteorological disasters. IET Renewable Power Generation, 2019, 13, 2084-2093.	1.7	10
60	Automatic Selection Method for Candidate Lines in Transmission Expansion Planning. IEEE Access, 2018, 6, 11605-11613.	2.6	20
61	Coordinated dispatch of multi-energy system with district heating network: Modeling and solution strategy. Energy, 2018, 152, 358-370.	4.5	56
62	A robust optimization method for energy management of CCHP microgrid. Journal of Modern Power Systems and Clean Energy, 2018, 6, 132-144.	3.3	68
63	Integrated approach for optimal island partition and power dispatch. Journal of Modern Power Systems and Clean Energy, 2018, 6, 449-462.	3.3	13
64	Optimal siting and sizing of distributed generation in distribution systems with PV solar farm utilized as STATCOM (PV-STATCOM). Applied Energy, 2018, 210, 1092-1100.	5.1	92
65	Distributed Energy Storage System Planning in the Distribution Network Considering the Reactive Power Capability and Network Reconfiguration. , 2018, , .		0
66	Decomposition method for coordinated planning of distributed generation and distribution network. IET Generation, Transmission and Distribution, 2018, 12, 4482-4491.	1.4	10
67	Operation and Economic Assessment of Hybrid Refueling Station Considering Traffic Flow Information. Energies, 2018, 11, 1991.	1.6	9
68	Hybrid Timescale Dispatch Hierarchy for Combined Heat and Power System Considering the Thermal Inertia of Heat Sector. IEEE Access, 2018, 6, 63033-63044.	2.6	33
69	Hybrid Modulated Model Predictive Control in a Modular Multilevel Converter for Multi-Terminal Direct Current Systems. Energies, 2018, 11, 1861.	1.6	7
70	A bi-level planning approach for hybrid AC-DC distribution system considering N-1 security criterion. Applied Energy, 2018, 230, 417-428.	5.1	35
71	Optimal planning of electric vehicle charging stations comprising multi-types of charging facilities. Applied Energy, 2018, 226, 1087-1099.	5.1	139
72	Multi-interval-uncertainty constrained robust dispatch for AC/DC hybrid microgrids with dynamic energy storage degradation. Applied Energy, 2018, 228, 205-214.	5.1	44

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73	Optimal Micro-PMU Placement Using Mutual Information Theory in Distribution Networks. <i>Energies</i> , 2018, 11, 1917.	1.6	21
74	Interval State Estimation of Distribution Network With Power Flow Constraint. <i>IEEE Access</i> , 2018, 6, 40826-40835.	2.6	16
75	Optimal PMU Placement Considering Load Loss and Relaying in Distribution Networks. <i>IEEE Access</i> , 2018, 6, 33645-33653.	2.6	43
76	An Online Optimal Dispatch Schedule for CCHP Microgrids Based on Model Predictive Control. <i>IEEE Transactions on Smart Grid</i> , 2017, 8, 2332-2342.	6.2	217
77	Optimal operation for integrated energy system considering thermal inertia of district heating network and buildings. <i>Applied Energy</i> , 2017, 199, 234-246.	5.1	336
78	Contributing to DSO's Energy-Reserve Pool: A Chance-Constrained Two-Stage $\mu$ VPP Bidding Strategy. <i>IEEE Power and Energy Technology Systems Journal</i> , 2017, 4, 94-105.	3.5	11
79	A new method for optimal FTU placement in distribution network under consideration of power service reliability. <i>Science China Technological Sciences</i> , 2017, 60, 1885-1896.	2.0	5
80	A Configurable $\mu$ VPP With Managed Energy Services: A Malmo Western Harbour Case. <i>IEEE Power and Energy Technology Systems Journal</i> , 2016, 3, 166-178.	3.5	9
81	Modeling, planning and optimal energy management of combined cooling, heating and power microgrid: A review. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 54, 26-37.	3.3	461
82	Cooperative Control to Enhance the Frequency Stability of Islanded Microgrids with DFIG-SMES. <i>Energies</i> , 2013, 6, 3951-3971.	1.6	51
83	A data-driven time-step determination approach for dynamic simulation of heat-electric coupled system. <i>IET Renewable Power Generation</i> , 0, , .	1.7	2