Junhua Zhao

List of Publications by Year
in descending order

72 papers	3,142 citations	218381 26 h-index	161609 54 g-index
72 all docs	72 docs citations	72 times ranked	2854 citing authors

#	Article	IF	Citations
1	A Review of False Data Injection Attacks Against Modern Power Systems. IEEE Transactions on Smart Grid, 2017, 8, 1630-1638.	6.2	652
2	Distributed Blockchain-Based Data Protection Framework for Modern Power Systems Against Cyber Attacks. IEEE Transactions on Smart Grid, 2019, 10, 3162-3173.	6.2	272
3	An Extensible Approach for Non-Intrusive Load Disaggregation With Smart Meter Data. IEEE Transactions on Smart Grid, 2018, 9, 3362-3372.	6.2	139
4	A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. IEEE Transactions on Smart Grid, 2020, 11, 148-160.	6.2	111
5	Carbon-Oriented Operational Planning in Coupled Electricity and Emission Trading Markets. IEEE Transactions on Power Systems, 2020, 35, 3145-3157.	4.6	111
6	Optimal Scheduling for Prosumers in Coupled Transactive Power and Gas Systems. IEEE Transactions on Power Systems, 2018, 33, 1970-1980.	4.6	105
7	A Model of Customizing Electricity Retail Prices Based on Load Profile Clustering Analysis. IEEE Transactions on Smart Grid, 2019, 10, 3374-3386.	6.2	103
8	Decision-Making for Electricity Retailers: A Brief Survey. IEEE Transactions on Smart Grid, 2018, 9, 4140-4153.	6.2	102
9	Optimal Operation of Battery Energy Storage System Considering Distribution System Uncertainty. IEEE Transactions on Sustainable Energy, 2018, 9, 1051-1060.	5.9	87
10	Cooperative Wind Farm Control With Deep Reinforcement Learning and Knowledge-Assisted Learning. IEEE Transactions on Industrial Informatics, 2020, 16, 6912-6921.	7.2	86
11	Integrated Electricity and Hydrogen Energy Sharing in Coupled Energy Systems. IEEE Transactions on Smart Grid, 2021, 12, 1149-1162.	6.2	85
12	Cloud-Based Information Infrastructure for Next-Generation Power Grid: Conception, Architecture, and Applications. IEEE Transactions on Smart Grid, 2016, 7, 1896-1912.	6.2	77
13	A Framework for Cyber-Topology Attacks: Line-Switching and New Attack Scenarios. IEEE Transactions on Smart Grid, 2019, 10, 1704-1712.	6.2	77
14	Bargaining Game-Based Profit Allocation of Virtual Power Plant in Frequency Regulation Market Considering Battery Cycle Life. IEEE Transactions on Smart Grid, 2021, 12, 2913-2928.	6.2	62
15	Power system fault diagnosis based on history driven differential evolution and stochastic time domain simulation. Information Sciences, 2014, 275, 13-29.	4.0	60
16	Impact analysis of false data injection attacks on power system static security assessment. Journal of Modern Power Systems and Clean Energy, 2016, 4, 496-505.	3.3	58
17	Nonâ€intrusive energy saving appliance recommender system for smart grid residential users. IET Generation, Transmission and Distribution, 2017, 11, 1786-1793.	1.4	57
18	Optimal allocation of BESS and MT in a microgrid. IET Generation, Transmission and Distribution, 2018, 12, 1988-1997.	1.4	52

#	Article	IF	Citations
19	A new metaheuristic algorithm for real-parameter optimization: Natural aggregation algorithm. , 2016, , .		50
20	A Framework of Customizing Electricity Retail Prices. IEEE Transactions on Power Systems, 2018, 33, 2415-2428.	4.6	50
21	Carbon-Oriented Electricity Network Planning and Transformation. IEEE Transactions on Power Systems, 2021, 36, 1034-1048.	4.6	50
22	Optimal Local Volt/Var Control for Photovoltaic Inverters in Active Distribution Networks. IEEE Transactions on Power Systems, 2021, 36, 5756-5766.	4.6	40
23	Distributionally Robust Optimal Bidding of Controllable Load Aggregators in the Electricity Market. IEEE Transactions on Power Systems, 2018, 33, 1089-1091.	4.6	39
24	Distributed Robust Control Strategy of Grid-Connected Inverters for Energy Storage Systemsâ€™ State-of-Charge Balancing. IEEE Transactions on Smart Grid, 2018, 9, 5907-5917.	6.2	35
25	Geometry optimization of solar thermoelectric generator under different operating conditions via Taguchi method. Energy Conversion and Management, 2021, 238, 114158.	4.4	34
26	Super Resolution Perception for Smart Meter Data. Information Sciences, 2020, 526, 263-273.	4.0	32
27	Natural aggregation algorithm: A new efficient metaheuristic tool for power system optimizations. , 2016, , .		29
28	A Distribution Market Clearing Mechanism for Renewable Generation Units With Zero Marginal Costs. IEEE Transactions on Industrial Informatics, 2019, 15, 4775-4787.	7.2	29
29	Improved Cycle Control and Sizing Scheme for Wind Energy Storage System Based on Multiobjective Optimization. IEEE Transactions on Sustainable Energy, 2017, 8, 966-977.	5.9	26
30	Controlled islanding schemes for interconnected power systems based on coherent generator group identification and wide-area measurements. Journal of Modern Power Systems and Clean Energy, 2016, 4, 440-453.	3.3	25
31	A data-driven scheduling model of virtual power plant using Wasserstein distributionally robust optimization. International Journal of Electrical Power and Energy Systems, 2022, 137, 107801.	3.3	23
32	Super Resolution Perception for Improving Data Completeness in Smart Grid State Estimation. Engineering, 2020, 6, 789-800.	3.2	22
33	An Inertia-Based Data Recovery Scheme for False Data Injection Attack. IEEE Transactions on Industrial Informatics, 2022, 18, 7814-7823.	7.2	21
34	Optimal integration of MBESSs/SBESSs in distribution systems with renewables. IET Renewable Power Generation, 2018, 12, 1172-1179.	1.7	19
35	Integrated optimization algorithm: A metaheuristic approach for complicated optimization. Information Sciences, 2022, 586, 424-449.	4.0	19
36	Hybrid-Model-Based Deep Reinforcement Learning for Heating, Ventilation, and Air-Conditioning Control. Frontiers in Energy Research, 2021, 8, .	1.2	18

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37	Probabilistic transmission expansion planning for increasing wind power penetration. IET Renewable Power Generation, 2017, 11, 837-845.	1.7	17
38	Flexible Integrated Network Planning Considering Echelon Utilization of Second Life of Used Electric Vehicle Batteries. IEEE Transactions on Transportation Electrification, 2022, 8, 263-276.	5.3	17
39	Coordinated Real-Time Voltage Control in Active Distribution Networks: An Incentive-Based Fairness Approach. IEEE Transactions on Smart Grid, 2022, 13, 2650-2663.	6.2	17
40	Individualized Pricing of Energy Storage Sharing Based on Discount Sensitivity. IEEE Transactions on Industrial Informatics, 2022, 18, 4642-4653.	7.2	16
41	Real-Time Corporate Carbon Footprint Estimation Methodology Based on Appliance Identification. IEEE Transactions on Industrial Informatics, 2023, 19, 1401-1412.	7.2	16
42	Two-Stage Coordinated Operational Strategy for Distributed Energy Resources Considering Wind Power Curtailment Penalty Cost. Energies, 2017, 10, 965.	1.6	14
43	Data-Driven Risk Preference Analysis in Day-Ahead Electricity Market. IEEE Transactions on Smart Grid, 2021, 12, 2508-2517.	6.2	14
44	Deep reinforcement learning based home energy management system with devices operational dependencies. International Journal of Machine Learning and Cybernetics, 2021, 12, 1687-1703.	2.3	13
45	Distributed Optimal Voltage Control and Berth Allocation of All-Electric Ships in Seaport Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 2664-2674.	6.2	13
46	Data-driven on-demand energy supplement planning for electric vehicles considering multi-charging/swapping services. Applied Energy, 2022, 311, 118632.	5.1	12
47	Adaptive Integrated Planning of Electricity Networks and Fast Charging Stations Under Electric Vehicle Diffusion. IEEE Transactions on Power Systems, 2023, 38, 499-513.	4.6	12
48	A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. IEEE Transactions on Smart Grid, 2020, 11, 2303-2312.	6.2	11
49	Electricity-consumption data reveals the economic impact and industry recovery during the pandemic. Scientific Reports, 2021, 11, 19960.	1.6	11
50	Decompositionâ€based approach to riskâ€averse transmission expansion planning considering wind power integration. IET Generation, Transmission and Distribution, 2017, 11, 3458-3466.	1.4	10
51	Customized Rebate Pricing Mechanism for Virtual Power Plants Using a Hierarchical Game and Reinforcement Learning Approach. IEEE Transactions on Smart Grid, 2023, 14, 424-439.	6.2	10
52	Trading-oriented battery energy storage planning for distribution market. International Journal of Electrical Power and Energy Systems, 2021, 129, 106848.	3.3	9
53	Networked Control of Electric Vehicles for Power System Frequency Regulation with Random Communication Time Delay. Energies, 2017, 10, 621.	1.6	8
54	Multi-agent modeling and analysis of EV usersâ€™ travel willingness based on an integrated causal/statistical/behavioral model. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1255-1263.	3.3	8

#	Article	IF	Citations
55	Power network planning considering tradeâ€off between cost, risk, and reliability. International Transactions on Electrical Energy Systems, 2017, 27, e2462.	1.2	6
56	Fedâ€NILM: A federated learningâ€based nonâ€intrusive load monitoring method for privacyâ€protection. Energy Conversion and Economics, 2022, 3, 51-60.	1.9	6
57	Market-Based Resource Allocation of Distributed Cloud Computing Services: Virtual Energy Storage Systems. IEEE Internet of Things Journal, 2022, 9, 22811-22821.	5.5	6
58	Assessing the impacts of largeâ€scale offshore wind power in Southern China. Energy Conversion and Economics, 2020, 1, 58-70.	1.9	5
59	Distributed Energy-Sharing Strategy for Peer-to-Peer Microgrid System. Journal of Energy Engineering - ASCE, 2020, 146, .	1.0	5
60	A Real-Time Estimation Framework of Carbon Emissions in Steel Plants Based on Load Identification. , 2020, , .		5
61	Complex dynamics and chaos control of electricity markets with heterogeneous expectations. International Transactions on Electrical Energy Systems, 2014, 24, 1047-1064.	1.2	4
62	Flexible Multi-Objective Transmission Expansion Planning with Adjustable Risk Aversion. Energies, 2017, 10, 1036.	1.6	4
63	A Hybrid Data-Driven Method for Online Power System Dynamic Security Assessment with Incomplete PMU Measurements. , 2019, , .		4
64	Small-Signal Performance of Type 4 Wind Turbine Generator-Based Clusters in Power Systems. Energies, 2018, 11, 1486.	1.6	3
65	Gas Generation Portfolio Management Strategy Based on Financial Derivatives: Options. , 2019, , .		3
66	Data mining for energy systems: Review and prospect. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1406.	4.6	2
67	Interpretable Hybrid Experimental Learning for Trading Behavior Modeling in Electricity Market. IEEE Transactions on Power Systems, 2023, 38, 1022-1032.	4.6	2
68	A risk management model for carbon constrained coal inventory optimization. , 2015, , .		1
69	Adaptive algorithm for rapidly optimising the generatorâ€tripping control. Journal of Engineering, 2019, 2019, 3039-3045.	0.6	1
70	The Economic Impacts of Household Level Smart Meter Manipulation Attack. , 2019, , .		0
71	Hybrid Experimental Learning on Trading Behavior Analysis in Electricity Markets. , 2021, , .		0
72	Cooperative Wind Farm Control with Hybrid-Model-Based Deep Deterministic Policy Gradient and Model Selection. , 2021, , .		0