Zaijun Wu

List of Publications by Year
in descending order

82 papers	1,728 citations	331670 21 h-index	276875 41 g-index
82 all docs	82 docs citations	82 times ranked	1840 citing authors

#	Article	IF	Citations
1	Modeling, planning and optimal energy management of combined cooling, heating and power microgrid: A review. International Journal of Electrical Power and Energy Systems, 2014, 54, 26-37.	5.5	461
2	Decentralized Multi-Agent System-Based Cooperative Frequency Control for Autonomous Microgrids With Communication Constraints. IEEE Transactions on Sustainable Energy, 2014, 5, 446-456.	8.8	227
3	Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 2245-2256.	9.0	95
4	Adaptive Decentralized Under-Frequency Load Shedding for Islanded Smart Distribution Networks. IEEE Transactions on Sustainable Energy, 2014, 5, 886-895.	8.8	62
5	A Family of Zero-Current-Transition Transformerless Photovoltaic Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2015, 30, 3156-3165.	7.9	54
6	Bridging the gap between complex networks and smart grids. Journal of Control and Decision, 2014, 1, 102-114.	1.6	49
7	Image-Based Abnormal Data Detection and Cleaning Algorithm via Wind Power Curve. IEEE Transactions on Sustainable Energy, 2020, 11, 938-946.	8.8	48
8	Grid-Forming Inverter Enabled Virtual Power Plants With Inertia Support Capability. IEEE Transactions on Smart Grid, 2022, 13, 4134-4143.	9.0	47
9	Operation and Control of a Direct-Driven PMSG-Based Wind Turbine System with an Auxiliary Parallel Grid-Side Converter. Energies, 2013, 6, 3405-3421.	3.1	39
10	A Distributed Voltage Control Strategy for Multi-Microgrid Active Distribution Networks Considering Economy and Response Speed. IEEE Access, 2018, 6, 31259-31268.	4.2	36
11	A Novel Dominant Dynamic Elimination Control for Voltage-Controlled Inverter. IEEE Transactions on Industrial Electronics, 2018, 65, 6800-6812.	7.9	35
12	Increasing operational flexibility of integrated energy systems by introducing power to hydrogen. IET Renewable Power Generation, 2020, 14, 372-380.	3.1	34
13	An Improved Droop Control for Balancing State of Charge of Battery Energy Storage Systems in AC Microgrid. IEEE Access, 2020, 8, 71917-71929.	4.2	33
14	Complex-Coefficient Complex-Variable Filter for Grid Synchronization Based on Linear Quadratic Regulation. IEEE Transactions on Industrial Informatics, 2018, 14, 1824-1834.	11.3	32
15	Residential HVAC Aggregation Based on Risk-averse Multi-armed Bandit Learning for Secondary Frequency Regulation. Journal of Modern Power Systems and Clean Energy, 2020, 8, 1160-1167.	5.4	32
16	An Interval Arithmetic-Based State Estimation Framework for Power Distribution Networks. IEEE Transactions on Industrial Electronics, 2019, 66, 8509-8520.	7.9	31
17	Extended-State-Observer-Based Distributed Robust Secondary Voltage and Frequency Control for an Autonomous Microgrid. IEEE Transactions on Sustainable Energy, 2020, 11, 195-205.	8.8	30
18	Robust Faulted Line Identification in Power Distribution Networks via Hybrid State Estimator. IEEE Transactions on Industrial Informatics, 2019, 15, 5365-5377.	11.3	27

#	Article	IF	Citations
19	Adaptive robust optimal reactive power dispatch in unbalanced distribution networks with high penetration of distributed generation. IET Generation, Transmission and Distribution, 2018, 12, 1382-1389.	2.5	25
20	Load Current Decoupling Based LQ Control for Three-Phase Inverter. IEEE Transactions on Power Electronics, 2018, 33, 5476-5491.	7.9	25
21	Coordinated Control Strategies of VSC-HVDC-Based Wind Power Systems for Low Voltage Ride Through. Energies, 2015, 8, 7224-7242.	3.1	24
22	An Improved Droop Control Strategy for Low-Voltage Microgrids Based on Distributed Secondary Power Optimization Control. Energies, 2017, 10, 1347.	3.1	19
23	Robust Secondary Frequency Control for Virtual Synchronous Machine-Based Microgrid Cluster Using Equivalent Modeling. IEEE Transactions on Smart Grid, 2021, 12, 2879-2889.	9.0	19
24	A Concise Discrete Adaptive Filter for Frequency Estimation Under Distorted Three-Phase Voltage. IEEE Transactions on Power Electronics, 2017, 32, 9400-9412.	7.9	18
25	Harmonic voltage resonant compensation control of a three-phase inverter for battery energy storage systems applied in isolated microgrid. Electric Power Systems Research, 2016, 131, 205-217.	3.6	17
26	A Combination Interval Prediction Model Based on Biased Convex Cost Function and Auto-Encoder in Solar Power Prediction. IEEE Transactions on Sustainable Energy, 2021, 12, 1561-1570.	8.8	17
27	An Optimal PR Control Strategy with Load Current Observer for a Three-Phase Voltage Source Inverter. Energies, 2015, 8, 7542-7562.	3.1	15
28	Dynamic Analysis and Model Order Reduction of Virtual Synchronous Machine Based Microgrid. IEEE Access, 2020, 8, 106585-106600.	4.2	15
29	Adaptive Master-Slave Control Strategy for Medium Voltage DC Distribution Systems Based on a Novel Nonlinear Droop Controller. IEEE Transactions on Smart Grid, 2021, 12, 4765-4777.	9.0	13
30	Decentralized Optimal Reactive Power Dispatch of Optimally Partitioned Distribution Networks. IEEE Access, 2018, 6, 74051-74060.	4.2	12
31	A Dynamic Robust Restoration Framework for Unbalanced Power Distribution Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 6301-6312.	11.3	12
32	High-Order Frequency-Locked Loop: General Modeling and Design. IEEE Transactions on Industrial Electronics, 2021, 68, 12626-12635.	7.9	11
33	Distributed Economic Dispatch Scheme for Droop-Based Autonomous DC Microgrid. Energies, 2020, 13, 404.	3.1	10
34	Research on Lifespan Prediction of Cross-Linked Polyethylene Material for XLPE Cables. Applied Sciences (Switzerland), 2020, 10, 5381.	2.5	9
35	A Multiarea State Estimation for Distribution Networks Under Mixed Measurement Environment. IEEE Transactions on Industrial Informatics, 2022, 18, 3620-3629.	11.3	9
36	Design and realization of regional power quality monitoring system. , 2008, , .		6

#	Article	IF	Citations
37	Research on wind energy distributed generation in microgrid. , 2010, , .		6
38	Optimal Allocation Method of Residential Air-Conditioners: Trade-Off Solutions Between Economic Costs and Aggregation Reliability. IEEE Open Access Journal of Power and Energy, 2022, 9, 131-142.	3.4	6
39	A robust restoration decision-making strategy for unbalanced distribution networks considering the uncertainty of photovoltage generators. International Journal of Electrical Power and Energy Systems, 2022, 141, 108202.	5.5	6
40	Optimal configuration of hybrid solar-wind distributed generation capacity in a grid-connected microgrid. , 2013, , .		5
41	A new method for optimal FTU placement in distribution network under consideration of power service reliability. Science China Technological Sciences, 2017, 60, 1885-1896.	4.0	5
42	A novel adaptive control for three-phase inverter. , 2018, , .		5
43	Intelligent PHEV charging and discharging strategy in smart grid. , 2012, , .		4
44	Power dispatch strategy in microgrid integrated with solid state transformer. , 2013, , .		4
45	Short-term Solar Power Interval Prediction with Interval Width Initilization Approach. , 2019, , .		4
46	Remaining lifespan prediction of crossâ€linked polyethylene material based on GM(1, N) grey models. IET Generation, Transmission and Distribution, 2022, 16, 376-384.	2.5	4
47	A Scenario-adaptive Online Learning Algorithm for Demand Response. , 2020, , .		4
48	Trade-Offs in Meter Deployment for Distribution Network State Estimation Considering Measurement Uncertainty. IEEE Access, 2019, 7, 66123-66136.	4.2	3
49	A realâ€time state estimation framework for integrated energy system considering measurement delay. IET Generation, Transmission and Distribution, 2022, 16, 2891-2902.	2.5	3
50	Preliminary study on adaptive fast-tripping current protection for microgrid. , 2015, , .		2
51	An optimal grid current control strategy with grid voltage observer (GVO) for LCLâ€filtered gridâ€connected inverters. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 777-784.	1.4	2
52	A Novel Strategy for DC Distribution Start-up Based on MMC. , 2019, , .		2
53	Small-Signal Modeling and Analysis of Multi-GFM System. , 2021, , .		2
54	Modeling and Transient Stability Analysis of Mixed-GFM-GFL-Based Power System. , 2021, , .		2

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55	Design of a Microgrid with Low-Voltage Ride-Through Capability and Simulation Experiment. Journal of Applied Mathematics, 2014, 2014, 1-8.	0.9	1
56	Discrete consensus-based distributed secondary control scheme with considering time-delays for DC microgrid. , 2015, , .		1
57	Active distribution network protection scheme based on area current direction. , 2017, , .		1
58	Dynamic Analysis and Parameters Design of the Load Virtual Synchronous Machine. , 2018, , .		1
59	Control Strategy Design and Dynamic Analysis of Grid-Connected Inverter Based on Virtual Synchronous Generator. , 2019, , .		1
60	A Novel DC Voltage Control Strategy for DC Distribution Based on Adaptive Droop Control. , 2020, , .		1
61	Economic-based residential flexible resource allocation in microgrid. Energy Reports, 2021, 7, 99-109.	5.1	1
62	Optimal Active and Reactive Power Coordinated Dispatch in Unbalanced Distribution Networks. , 2020, , .		1
63	A Parameters Design Method of Three-phase Inverter Based on Complex Coefficients Complex Variables. , 2021, , .		1
64	A Denoising Method Based on Spectrum Clustering and Improved Empirical Wavelet Transform for Cable Partial Discharge. , 2021, , .		1
65	Dynamic pricing of integrated energy service providers based on master-slave game. , 2021, , .		1
66	Contactless electronic ballast for high brightness LED lamps with mechanical dimming method. , 2012, , .		0
67	Wind power DC grid and Variable Speed DC power system operating control. , 2012, , .		0
68	Discrete time optimal design for voltage prefilter in grid synchronization system from control perspective. , 2016, , .		0
69	A New Protection Scheme for Two-terminal DC Grid. , 2017, , .		0
70	A Protection Scheme of Active Distribution Network Considering the Sequential Coordination of Grid-Connected Distributed Generation and Reclosing. , 2018, , .		0
71	Distributed Reactive Power Optimization in Distribution Systems Based on System Partitioning. , 2018, , .		0
72	Distributed High Step-Down Ratio DC Transformer for Interconnection of MVDC and LVDC Grids. , 2019, , .		0

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73	An Adaptive Active Power Optimal Allocation Strategy for Power Loss Minimization in Islanded Microgrids. , 2019, , .		0
74	A Fault Locating Method Based on Travelling Wave for MMC Based DC Distribution Network. , 2020, , .		0
75	Sloution of Voltage Violation for Rural Distribution Network with High Photovoltaic Penetration. , 2021, , .		0
76	Voltage Sensitivity Matrix Based P-V Droop Control for Adaptive Voltage Regulation in Rural Distribution. , 2021, , .		0
77	Complex-Variable Design of Voltage Control for Grid-Forming Inverter. , 2020, , .		0
78	Bi-level Optimization Model of Day-ahead Demand Response Strategy for Load Aggregator. , 2021, , .		0
79	Research on Partial Discharge Characteristics and Type Identification of Typical Insulation Defects of 10kV XLPE Cables. , 2021, , .		0
80	Stability Analysis of a Three Terminal AC/DC Hybrid Distribution System. , 2021, , .		0
81	Line Protection Scheme for DC Distribution Networks Based on Current Waveform Similarity. , 2021, , .		0
82	Interval State Estimation of Distribution Networks Considering Parameter Uncertainty Based on Affine Arithmetic. , 2021, , .		0