Zheng Yan

List of Publications by Year
in descending order

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136 papers	2,818 citations	172457 29 h-index	197818 49 g-index
137 all docs	137 docs citations	137 times ranked	2727 citing authors

#	Article	IF	Citations
1	Reactive Power Market Design for Distribution Networks With High Photovoltaic Penetration. IEEE Transactions on Smart Grid, 2023, 14, 1642-1651.	9.0	3
2	A Distributed and Robust Security-Constrained Economic Dispatch Algorithm Based on Blockchain. IEEE Transactions on Power Systems, 2022, 37, 691-700.	6.5	53
3	Accommodating Strategic Players in Distributed Algorithms for Power Dispatch Problems. IEEE Transactions on Cybernetics, 2022, 52, 12594-12603.	9.5	14
4	Data-driven distribution network topology identification considering correlated generation power of distributed energy resource. Frontiers in Energy, 2022, 16, 121-129.	2.3	5
5	Optimal Incentive Strategy in Cloud-Edge Integrated Demand Response Framework for Residential Air Conditioning Loads. IEEE Transactions on Cloud Computing, 2022, 10, 31-42.	4.4	13
6	Bidding strategy of energy storage in imperfectly competitive flexible ramping market via system dynamics method. International Journal of Electrical Power and Energy Systems, 2022, 136, 107722.	5.5	4
7	Optimal portfolio design of energy storage devices with financial and physical right market. Frontiers in Energy, 2022, 16, 95-104.	2.3	3
8	Multistage Robust Optimization of Routing and Scheduling of Mobile Energy Storage in Coupled Transportation and Power Distribution Networks. IEEE Transactions on Transportation Electrification, 2022, 8, 2583-2594.	7.8	9
9	Gaussian Mixture Model for Multivariate Wind Power Based on Kernel Density Estimation and Component Number Reduction. IEEE Transactions on Sustainable Energy, 2022, 13, 1853-1856.	8.8	7
10	Blockchain in energy systems: values, opportunities, and limitations. Frontiers in Energy, 2022, 16, 9-18.	2.3	6
11	Evaluating peak-regulation capability for power grid with various energy resources in Chinese urban regions via a pragmatic visualization method. Sustainable Cities and Society, 2022, 80, 103749.	10.4	11
12	A Risk-Controllable Day-Ahead Transmission Schedule of Surplus Wind Power with Uncertainty in Sending Grids. International Journal of Electrical Power and Energy Systems, 2022, 139, 107649.	5.5	6
13	Spatio-Temporal Probabilistic Forecasting of Photovoltaic Power Based on Monotone Broad Learning System and Copula Theory. IEEE Transactions on Sustainable Energy, 2022, 13, 1874-1885.	8.8	9
14	Distributionally Robust Optimization for Generation Expansion Planning Considering Virtual Inertia from Wind Farms. Electric Power Systems Research, 2022, 210, 108060.	3.6	5
15	Distributionally Robust Co-optimization of Transmission Network Expansion Planning and Penetration Level of Renewable Generation. Journal of Modern Power Systems and Clean Energy, 2022, 10, 577-587.	5.4	6
16	Coordinated Operation Strategy for PV-battery-load in LV Distribution Networks Considering Low-carbon Economy. , 2022, , .		2
17	A blockchain consensus mechanism that uses Proof of Solution to optimize energy dispatch and trading. Nature Energy, 2022, 7, 495-502.	39.5	39
18	A two-phase market clearing framework for inter-provincial electricity trading in Chinese power grids. Sustainable Cities and Society, 2022, 85, 104057.	10.4	5

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19	Multilabel Image Classification via Feature/Label Co-Projection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7250-7259.	9.3	52
20	Optimal Energy Storage Allocation for Mitigating the Unbalance in Active Distribution Network via Uncertainty Quantification. IEEE Transactions on Sustainable Energy, 2021, 12, 303-313.	8.8	30
21	Multirateâ€‰andâ€‰Mixedâ€‰Solverâ€‰Basedâ€‰Cosimulationâ€‰of Combined Transient Stability, Shifted-Frequency Phasor, and Electromagnetic Models: A Practical LCC HVDC Simulation Study. IEEE Transactions on Industrial Electronics, 2021, 68, 4954-4965.	7.9	5
22	A Shifted Frequency Impedance Model of Doubly Fed Induction Generator (DFIG)-Based Wind Farms and Its Applications on S^{2}SI Analysis. IEEE Transactions on Power Electronics, 2021, 36, 215-227.	7.9	19
23	CKFO: Convolution Kernel First Operated Algorithm With Applications in Memristor-Based Convolutional Neural Network. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 1640-1647.	2.7	52
24	A Two-stage Autonomous EV Charging Coordination Method Enabled by Blockchain. Journal of Modern Power Systems and Clean Energy, 2021, 9, 104-113.	5.4	38
25	A trusted energy trading framework by marrying blockchain and optimization. Advances in Applied Energy, 2021, 2, 100029.	13.2	53
26	Study of Toroidal Core Multilimb Transformer (TCMLT) for High-Power DC Application. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2951-2964.	5.4	2
27	Power Grid Parameters Determining Based on Extended Sensitivity Matrix in Electricity Market. , 2021, , .		0
28	An online optimization method for extracting parameters of multi-parameter PV module model based on adaptive Levenberg-Marquardt algorithm. Energy Conversion and Management, 2021, 245, 114611.	9.2	25
29	A Reinforcement Learning Method for Power Suppliers' Strategic Bidding with Insufficient Information. , 2021, , .		1
30	Probabilistic Transient Analysis of Power System based on Nonlinear Auto-regressive Model. , 2021, , .		0
31	Hybrid clusteringâ€based bad data detection of PMU measurements. Energy Conversion and Economics, 2021, 2, 235-247.	3.2	2
32	Data-Driven Risk-Averse Two-Stage Optimal Stochastic Scheduling of Energy and Reserve With Correlated Wind Power. IEEE Transactions on Sustainable Energy, 2020, 11, 436-447.	8.8	80
33	Probabilistic power flow analysis of microgrid with renewable energy. International Journal of Electrical Power and Energy Systems, 2020, 114, 105393.	5.5	35
34	Distributionally Robust Co-Optimization of Power Dispatch and Do-Not-Exceed Limits. IEEE Transactions on Power Systems, 2020, 35, 887-897.	6.5	17
35	A Multi-Rate Co-Simulation of Combined Phasor-Domain and Time-Domain Models for Large-Scale Wind Farms. IEEE Transactions on Energy Conversion, 2020, 35, 324-335.	5.2	14
36	Probabilistic Static Voltage Stability Assessment for Distribution Network Considering Correlated Renewable Energy. , 2020, , .		2

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37	A Nested MCMC Method Incorporated With Atmospheric Process Decomposition for Photovoltaic Power Simulation. IEEE Transactions on Sustainable Energy, 2020, 11, 2972-2984.	8.8	3
38	Source-Grid-Load Combined Security Assessment of PV-Penetrated Distribution Network. , 2020, , .		1
39	Multi-time Load Restoration Model in Unbalanced Electrical Distribution System Based on Rolling Optimization. , 2020, , .		0
40	DOB-Net: Actively Rejecting Unknown Excessive Time-Varying Disturbances. , 2020, , .		3
41	Coordinating EV Charging via Blockchain. Journal of Modern Power Systems and Clean Energy, 2020, 8, 573-581.	5.4	32
42	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. Nature Electronics, 2020, 3, 563-570.	26.0	298
43	Data-driven stochastic programming for energy storage system planning in high PV-penetrated distribution network. International Journal of Electrical Power and Energy Systems, 2020, 123, 106326.	5.5	18
44	Cosimulation of Shifted-Frequency/Dynamic Phasor and Electromagnetic Transient Models of Hybrid LCC-MMC DC Grids on Integrated CPUâ€“GPUs. IEEE Transactions on Industrial Electronics, 2020, 67, 6517-6530.	7.9	18
45	Density-based Global Sensitivity Analysis of Islanded Microgrid Loadability Considering Distributed Energy Resource Integration. Journal of Modern Power Systems and Clean Energy, 2020, 8, 94-101.	5.4	18
46	Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 2892-2903.	9.0	25
47	Designing pulse-coupled neural networks with spike-synchronization-dependent plasticity rule: image segmentation and memristor circuit application. Neural Computing and Applications, 2020, 32, 13441-13452.	5.6	10
48	Smart contract architecture for decentralized energy trading and management based on blockchains. Energy, 2020, 199, 117417.	8.8	132
49	Portfolio management for a windâ€storage system based on distributionally robust optimisation considering a flexible ramping product. IET Renewable Power Generation, 2020, 14, 3192-3199.	3.1	5
50	A Multi-rate Co-simulation of Combined Phasor-Domain and Time-Domain Models for Large-scale Wind Farms. , 2020, , .		0
51	Dynamic scheduling of rail replacement bus timetables. , 2020, , .		0
52	An Improved Control Strategy for Renewable energy sources (RES) based DC microgrid with enhanced System Stability and Control Performance. , 2020, , .		0
53	Dynamic evaluation of largeâ€scale rooftop photovoltaic penetration into the power distribution system. IET Renewable Power Generation, 2020, 14, 2976-2982.	3.1	0
54	Dynamic battery loss evaluation and its application for optimal online windâ€storage integrated scheduling. IET Renewable Power Generation, 2020, 14, 3079-3087.	3.1	8

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55	Demonstration Project and State Estimation Application in PMU-Based Distribution Network. , 2020, , .		1
56	Maximum Loadability of Islanded Microgrids With Renewable Energy Generation. IEEE Transactions on Smart Grid, 2019, 10, 4696-4705.	9.0	34
57	Adjusting Learning Rate of Memristor-Based Multilayer Neural Networks via Fuzzy Method. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 1084-1094.	2.7	102
58	A Two-Layer Network Equivalent With Local Passivity Compensation With Applications to Hybrid Simulations of MMC-Based ACâ€“DC Grids. IEEE Transactions on Power Systems, 2019, 34, 4514-4524.	6.5	3
59	Optimal coordinated operation of a multi-energy community considering interactions between energy storage and conversion devices. Applied Energy, 2019, 248, 256-273.	10.1	57
60	Distributed Neurodynamic Optimization for Energy Internet Management. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1624-1633.	9.3	37
61	A Multi-Domain Co-Simulation Method for Comprehensive Shifted-Frequency Phasor DC-Grid Models and EMT AC-Grid Models. IEEE Transactions on Power Electronics, 2019, 34, 10557-10574.	7.9	21
62	Methods of Preventing Collusion of Generation Enterprises in East China Electricity Market. , 2019, , .		1
63	Suggestions on Electric Power Industry Reform under Regional Integration of Yangtze River Delta. , 2019, , .		0
64	Twoâ€stage market clearing approach to mitigate generator collusion in Eastern China electricity market via system dynamics method. IET Generation, Transmission and Distribution, 2019, 13, 3346-3353.	2.5	12
65	Enhanced Real-time Electricity Price Prediction with a Novel Feature Selection Technique. , 2019, , .		3
66	Enabling a Transactive Distribution System via Real-Time Distributed Optimization. IEEE Transactions on Smart Grid, 2019, 10, 4907-4917.	9.0	23
67	Operation Strategy of Smart Thermostats That Self-Learn User Preferences. IEEE Transactions on Smart Grid, 2019, 10, 5770-5780.	9.0	11
68	Real-Time Simulation of Hybrid Modular Multilevel Converters Using Shifted Phasor Models. IEEE Access, 2019, 7, 2376-2386.	4.2	3
69	Reconstruction of sparse signals via neurodynamic optimization. International Journal of Machine Learning and Cybernetics, 2019, 10, 15-26.	3.6	5
70	Short-Term Load Forecasting Using Broad Learning System. , 2019, , .		1
71	Integrated resources planning in microgrids considering interruptible loads and shiftable loads. Journal of Modern Power Systems and Clean Energy, 2018, 6, 802-815.	5.4	31
72	General memristor with applications in multilayer neural networks. Neural Networks, 2018, 103, 142-149.	5.9	83

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73	Forming Bidding Curves for a Distribution System Operator. IEEE Transactions on Power Systems, 2018, 33, 5389-5400.	6.5	22
74	Power System Voltage Stability Evaluation Considering Renewable Energy With Correlated Variabilities. IEEE Transactions on Power Systems, 2018, 33, 3236-3245.	6.5	86
75	Determine the reliable generating capacity of power systems with high HVDC penetration considering both stability and ancillary service requirements. IET Generation, Transmission and Distribution, 2018, 12, 540-547.	2.5	2
76	Data-driven Power System Collapse Predicting Using Critical Slowing Down Indicators. , 2018, , .		2
77	Portfolio management of battery storages in multiple electricity markets. IET Generation, Transmission and Distribution, 2018, 12, 6004-6010.	2.5	15
78	Impact of China Transmission Pricing Reform on Power Grid Investment. , 2018, , .		4
79	Short Term Residential Load Forecasting: An Improved Optimal Nonlinear Auto Regressive (NARX) Method with Exponential Weight Decay Function. Electronics (Switzerland), 2018, 7, 432.	3.1	20
80	A Two-stage Robust Stochastic Programming Approach for Generation Expansion Planning of Smart Grids under Uncertainties. , 2018, , .		3
81	Consensus-Based Source-Load-Storage Optimal Dispatch for Active Distributed Network in Dynamic Multi-Agent System. , 2018, , .		3
82	Global Sensitivity Analysis of Islanded Microgrid Power Flow. , 2018, , .		1
83	Energy internet in the Yangtze River Delta: opportunities, challenges, and suggestions. Frontiers in Energy, 2018, 12, 484-492.	2.3	8
84	Evaluating Influence of Variable Renewable Energy Generation on Islanded Microgrid Power Flow. IEEE Access, 2018, 6, 71339-71349.	4.2	22
85	Explore Uncertainty in Residual Networks for Crowds Flow Prediction. , 2018, , .		6
86	Three-Stage Distributed State Estimation for AC-DC Hybrid Distribution Network Under Mixed Measurement Environment. IEEE Access, 2018, 6, 39027-39036.	4.2	38
87	Optimizing Generation Capacities Incorporating Renewable Energy with Storage Systems Using Genetic Algorithms. Electronics (Switzerland), 2018, 7, 100.	3.1	14
88	A Neurodynamic Approach to Distributed Optimization With Globally Coupled Constraints. IEEE Transactions on Cybernetics, 2018, 48, 3149-3158.	9.5	67
89	A Continuous-Time Recurrent Neural Network for Sparse Signal Reconstruction Via â„“<inf>1</inf> Minimization. , 2018, , .		1
90	Distributed Model Predictive Control of Linear Systems with Coupled Constraints Based on Collective Neurodynamic Optimization. Lecture Notes in Computer Science, 2018, , 318-328.	1.3	1

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91	Road traffic flow prediction using deep transfer learning. , 2018, , .		0
92	Probabilistic optimal power flow considering dependences of wind speed among wind farms by pair-copula method. International Journal of Electrical Power and Energy Systems, 2017, 84, 296-307.	5.5	57
93	Modeling on Electrical Power Market Clearing with Consideration of the Participation of VPP and MG in View of Energy Internet. , 2017, , .		4
94	A Collective Neurodynamic System for Distributed Optimization with Applications in Model Predictive Control. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 305-314.	4.9	23
95	A Novel State of Charge Feedback Strategy in Wind Power Smoothing Based on Short-Term Forecast and Scenario Analysis. IEEE Transactions on Sustainable Energy, 2017, 8, 870-879.	8.8	49
96	Optimal operation of wind-solar-hydrogen storage system based on energy hub. , 2017, , .		5
97	Electricity trading in global energy internet. , 2017, , .		14
98	Game-based strategy for load service entity to level Duck Chart as well as gain EV consumers. International Transactions on Electrical Energy Systems, 2016, 26, 2204-2215.	1.9	2
99	Probabilistic static voltage stability analysis considering the correlation of wind power. , 2016, , .		7
100	AC/DC optimal power flow problem considering wind farm integration. , 2016, , .		4
101	Tube-Based Robust Model Predictive Control of Nonlinear Systems via Collective Neurodynamic Optimization. IEEE Transactions on Industrial Electronics, 2016, 63, 4377-4386.	7.9	53
102	Application of Multi-Objective Human Learning Optimization Method to Solve AC/DC Multi-Objective Optimal Power Flow Problem. International Journal of Emerging Electric Power Systems, 2016, 17, 327-337.	0.8	14
103	Impact of HVDC line on the convergence property of AC/DC power flow calculation. International Journal of Electrical Power and Energy Systems, 2016, 83, 140-148.	5.5	10
104	Decentralized Charging of Plug-In Electric Vehicles Using Lagrange Relaxation Method at the Residential Transformer Level. International Journal of Emerging Electric Power Systems, 2016, 17, 267-276.	0.8	5
105	Optimal power flow calculation in AC/DC hybrid power system based on adaptive simplified human learning optimization algorithm. Journal of Modern Power Systems and Clean Energy, 2016, 4, 690-701.	5.4	23
106	Probabilistic load flow evaluation considering correlated input random variables. International Transactions on Electrical Energy Systems, 2016, 26, 555-572.	1.9	29
107	Optimal Scheduling of Electric Vehicles Charging in low-Voltage Distribution Systems. Journal of Electrical Engineering and Technology, 2016, 11, 810-819.	2.0	0
108	AC/DC Power Flow Computation Based on Improved Levenbergâ€“Marquardt Method. International Journal of Emerging Electric Power Systems, 2015, 16, 1-13.	0.8	7

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109	Probabilistic load flow evaluation with hybrid Latin Hypercube Sampling and multiple linear regression. , 2015, , .		1
110	Direct Load Control in Microgrids to Enhance the Performance of Integrated Resources Planning. IEEE Transactions on Industry Applications, 2015, 51, 3553-3560.	4.9	52
111	A modified Levenberg-Marquardt approach to explore the limit operation state of AC/DC hybrid system. , 2015, , .		0
112	Estimating wind speed probability distribution by diffusion-based kernel density method. Electric Power Systems Research, 2015, 121, 28-37.	3.6	95
113	A one-layer recurrent neural network for constrained nonconvex optimization. Neural Networks, 2015, 61, 10-21.	5.9	80
114	A robust optimization approach to evaluate the impact of smart grid technologies on generation plans. , 2014, , .		2
115	Study on Thevenin equivalent model and algorithm of AC/DC power systems for voltage instability identification. , 2014, , .		1
116	Congestion Surplus Minimization Pricing Solutions When Lagrange Multipliers are not Unique. IEEE Transactions on Power Systems, 2014, 29, 2023-2032.	6.5	8
117	Risk assessment model for wind power integrated power systems using conditional value-at-risk. , 2014, , .		1
118	Multi-elements and multi-dimensions risk evaluation of smart grid. , 2012, , .		3
119	Fault diagnosis of power grid with information fusion of multi-level. , 2011, , .		1
120	An improved state selection technique for power system reliability evaluation. , 2011, , .		2
121	An oligopolistic model considering the locational SR requirement for joint energyâ€reserve market. European Transactions on Electrical Power, 2010, 20, 491-504.	1.0	0
122	Cost and risk management for a local distribution company in purchasing electricity. European Transactions on Electrical Power, 2010, 20, 1101-1113.	1.0	3
123	A novel reactive power planning method based on improved particle swarm optimization with static voltage stability. European Transactions on Electrical Power, 2010, 20, 1129-1137.	1.0	20
124	A Study on Determining the Maximum Loading Index of a Power Grid. , 2010, , .		0
125	An Iterative LMP Calculation Method Considering Loss Distributions. IEEE Transactions on Power Systems, 2010, 25, 1469-1477.	6.5	57
126	Analysis of effects of contracts on the stability of dynamic power markets. European Transactions on Electrical Power, 2009, 19, 56-71.	1.0	0

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127	Optimal power grid black start using fuzzy logic and expert system. European Transactions on Electrical Power, 2009, 19, 969-977.	1.0	5
128	A kernelâ€based clustering approach to finding communities in multiâ€machine power systems. European Transactions on Electrical Power, 2009, 19, 1131-1139.	1.0	2
129	Multiple scale identification of power system oscillations using an improved Hilbert-Huang transform. , 2009, , .		8
130	Use of starter culture of Lactobacillus plantarum BP04 in the preservation of dining-hall food waste. World Journal of Microbiology and Biotechnology, 2008, 24, 2249-2256.	3.6	8
131	Lactic acid production from diningâ€hall food waste by Lactobacillus plantarum using response surface methodology. Journal of Chemical Technology and Biotechnology, 2008, 83, 1541-1550.	3.2	20
132	Production and characteristics of a bioflocculant produced by Bacillus sp. F19. Bioresource Technology, 2008, 99, 7686-7691.	9.6	163
133	Biosorption of Cu(II) on extracellular polymers from Bacillus sp. F19. Journal of Environmental Sciences, 2008, 20, 1288-1293.	6.1	31
134	α-stable statistical modeling and application of marginal price in electricity market. , 2008, , .		1
135	A Novel CVaR Based Portfolio Optimization Model for LDC Electricity Procurement. , 2008, , .		2
136	Distributionally Robust Capacity Configuration for Energy Storage in Microgrid Considering Renewable Utilization. Frontiers in Energy Research, 0, 10, .	2.3	5