Guoqiang Sun

List of Publications by Year
in descending order

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97 papers	2,262 citations	236925 25 h-index	223800 46 g-index
97 all docs	97 docs citations	97 times ranked	1913 citing authors

#	Article	IF	Citations
1	Security-Constrained Optimal Traffic-Power Flow With Adaptive Convex Relaxation and Contingency Filtering. IEEE Transactions on Transportation Electrification, 2023, 9, 1605-1617.	7.8	4
2	Asynchronous and Adaptive State Estimation of Integrated Electricityâ€“Gas Energy Systems. IEEE Internet of Things Journal, 2023, 10, 7636-7644.	8.7	4
3	Solar Power Prediction Based on Satellite Measurements â€“ A Graphical Learning Method for Tracking Cloud Motion. IEEE Transactions on Power Systems, 2022, 37, 2335-2345.	6.5	24
4	Forecasting-aided state estimation based on deep learning for hybrid AC/DC distribution systems. Applied Energy, 2022, 306, 118119.	10.1	11
5	Short-term Solar Power Prediction Learning Directly from Satellite Images With Regions of Interest. IEEE Transactions on Sustainable Energy, 2022, 13, 629-639.	8.8	34
6	Strategic Investment in Power and Heat Markets: A Nashâ€“Cournot Equilibrium Model. IEEE Transactions on Industrial Informatics, 2022, 18, 6057-6067.	11.3	3
7	Robust Dynamic State Estimator of Integrated Energy Systems Based on Natural Gas Partial Differential Equations. IEEE Transactions on Industry Applications, 2022, 58, 3303-3312.	4.9	9
8	A Low-Carbon Dispatch Strategy for Power Systems Considering Flexible Demand Response and Energy Storage. Frontiers in Energy Research, 2022, 10, .	2.3	7
9	Multistage Robust Look-Ahead Unit Commitment with Probabilistic Forecasting in Multi-Carrier Energy Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 70-82.	8.8	31
10	Integrated demand response for congestion alleviation in coupled power and transportation networks. Applied Energy, 2021, 283, 116206.	10.1	22
11	Research on Security Region of AC/DC Hybrid Active Distribution Network. , 2021, , .		0
12	Power and Traffic Nexus: From Perspective of Power Transmission Network and Electrified Highway Network. IEEE Transactions on Transportation Electrification, 2021, 7, 566-577.	7.8	21
13	Multi-Meteorological-Factor-Based Graph Modeling for Photovoltaic Power Forecasting. IEEE Transactions on Sustainable Energy, 2021, 12, 1593-1603.	8.8	49
14	Probabilistic Residential Load Forecasting Based on Micrometeorological Data and Customer Consumption Pattern. IEEE Transactions on Power Systems, 2021, 36, 3762-3775.	6.5	36
15	Augmented Convolutional Network for Wind Power Prediction: A New Recurrent Architecture Design With Spatial-Temporal Image Inputs. IEEE Transactions on Industrial Informatics, 2021, 17, 6981-6993.	11.3	31
16	A Flexible Demand Response Dispatch Strategy Considering Multiple Response Modes and Wind Power Uncertainty. Applied Sciences (Switzerland), 2021, 11, 10165.	2.5	1
17	Dynamic State Estimation for Integrated Natural Gas and Electric Power Systems. , 2021, , .		4
18	A Two-Stage Cooperative Dispatch Model for Power Systems Considering Security and Source-Load Interaction. Sustainability, 2021, 13, 13350.	3.2	2

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19	Real-Time Recursive Correction State Estimation Utilizing Only SCADA Measurements. , 2021, , .		2
20	The Regional Rooftop Photovoltaic Potential User Mining and Power Generation Capacity Evaluation based on the Remote Sensing Image Recognition. , 2021, , .		0
21	Corrective Security-Constrained Optimal Power and Gas Flow With Binding Contingency Identification. IEEE Transactions on Sustainable Energy, 2020, 11, 1033-1042.	8.8	19
22	Robust Ensemble Kalman Filter for Medium-Voltage Distribution System State Estimation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4114-4124.	4.7	25
23	Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. IEEE Transactions on Power Systems, 2020, 35, 2155-2166.	6.5	73
24	Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. IEEE Transactions on Smart Grid, 2020, 11, 1854-1865.	9.0	79
25	Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. IEEE Transactions on Power Systems, 2020, 35, 2388-2398.	6.5	52
26	Day-ahead photovoltaic power forecasting approach based on deep convolutional neural networks and meta learning. International Journal of Electrical Power and Energy Systems, 2020, 118, 105790.	5.5	171
27	Electricity Theft Detection Model for Smart Meter Based on Residual Neural Network. , 2020, , .		2
28	Fault Detection Based on the Generalized S-Transform With a Variable Factor for Resonant Grounding Distribution Networks. IEEE Access, 2020, 8, 91351-91367.	4.2	22
29	Load Forecast of Building Integrated Energy System Based on Similar Day Method. , 2020, , .		0
30	Risk Assessment of Integrated Electricity--Heat Energy System with Cross Entropy and Objective Entropy Weight Method. , 2020, , .		1
31	Study on the Transaction Management Mode of Virtual Power Plants Based on Blockchain Technology. , 2020, , .		4
32	Survey on negative line loss rate of transformer region: Rectification measures and challenges. AIP Advances, 2020, 10, .	1.3	3
33	A Novel Fault Location Method for Distribution Networks Based on Transient Energy Relative Entropy of FDM Transform. , 2020, , .		0
34	EV Charging-Driving Navigation in Electrified Highway Network. , 2020, , .		4
35	Continuous Commutation Failure Suppression Method Based on Self-adaptive Auto-disturbance Rejection Proportional-integral Controller for HVDC Transmission System. Journal of Modern Power Systems and Clean Energy, 2020, 8, 1178-1187.	5.4	8
36	Intelligent Classification Method for Grid-Monitoring Alarm Messages Based on Information Theory. Energies, 2019, 12, 2814.	3.1	5

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37	Identification Technology of Grid Monitoring Alarm Event Based on Natural Language Processing and Deep Learning in China. Energies, 2019, 12, 3258.	3.1	18
38	Incentive-Compatible Market Clearing for a Two-Stage Integrated Electricity-Gas-Heat Market. IEEE Access, 2019, 7, 120984-120996.	4.2	11
39	A Robust State Estimator for Integrated Electrical and Heating Networks. IEEE Access, 2019, 7, 109990-110001.	4.2	17
40	Hybrid State Estimation for Distribution Systems With AMI and SCADA Measurements. IEEE Access, 2019, 7, 120350-120359.	4.2	27
41	Research on Robust Day-Ahead Dispatch Considering Primary Frequency Response of Wind Turbine. Applied Sciences (Switzerland), 2019, 9, 1784.	2.5	2
42	Stochastic Adaptive Robust Dispatch for Virtual Power Plants Using the Binding Scenario Identification Approach. Energies, 2019, 12, 1918.	3.1	14
43	Two-Stage Integrated Electricity and Heat Market Clearing With Energy Stations. IEEE Access, 2019, 7, 44928-44938.	4.2	24
44	Fourâ€level robust model for a virtual power plant in energy and reserve markets. IET Generation, Transmission and Distribution, 2019, 13, 2036-2043.	2.5	20
45	A Combined Optimization Structure of Adaptive Neuro-fuzzy Inference System for Probabilistic Photovoltaic Power Forecasting. , 2019, , .		1
46	A Nonlinear Analytical Algorithm for Predicting the Probabilistic Mass Flow of a Radial District Heating Network. Energies, 2019, 12, 1215.	3.1	5
47	Distributed hierarchical consensus algorithm for economic dispatch in smart grid. IET Generation, Transmission and Distribution, 2019, 13, 5541-5549.	2.5	3
48	Estimation and validation of daily global solar radiation by day of the year-based models for different climates in China. Renewable Energy, 2019, 135, 984-1003.	8.9	57
49	Interval State Estimation for Low-Voltage Distribution Systems Based on Smart Meter Data. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3090-3099.	4.7	26
50	Adaptive Robust Day-Ahead Dispatch for Urban Energy Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 1379-1390.	7.9	67
51	A Multi-Objective Robust State Estimator for Systems Measured by Phasor Measurement Units. IEEE Access, 2018, 6, 14620-14628.	4.2	4
52	A robust optimization approach for integrated community energy system in energy and ancillary service markets. Energy, 2018, 148, 1-15.	8.8	135
53	Parameters Estimation of Electromechanical Oscillation With Incomplete Measurement Information. IEEE Transactions on Power Systems, 2018, 33, 5016-5028.	6.5	15
54	Optimal Power and Gas Flow With a Limited Number of Control Actions. IEEE Transactions on Smart Grid, 2018, 9, 5371-5380.	9.0	36

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55	Distribution Network Reconfiguration Based on SOCP Considering the Access of Photovoltaic Electric Vehicle Charging Tower. , 2018, , .		2
56	Hybrid method for shortâ€term photovoltaic power forecasting based on deep convolutional neural network. IET Generation, Transmission and Distribution, 2018, 12, 4557-4567.	2.5	178
57	Ensemble Recurrent Neural Network Based Probabilistic Wind Speed Forecasting Approach. Energies, 2018, 11, 1958.	3.1	68
58	Bi-Level Planning Model of Charging Stations Considering the Coupling Relationship between Charging Stations and Travel Route. Applied Sciences (Switzerland), 2018, 8, 1130.	2.5	8
59	The research of fault section location for distribution network based on transient feature extraction and fuzzy clustering. , 2018, , .		6
60	Steady state and transient simulation for electricityâ€gas integrated energy systems by using convex optimisation. IET Generation, Transmission and Distribution, 2018, 12, 2199-2206.	2.5	37
61	Multi-period integrated natural gas and electric power system probabilistic optimal power flow incorporating power-to-gas units. Journal of Modern Power Systems and Clean Energy, 2017, 5, 412-423.	5.4	57
62	Identifying Optimal Energy Flow Solvability in Electricity-Gas Integrated Energy Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 846-854.	8.8	50
63	Fractional extended Kalman filtering for nonâ€linear fractional system with LÃ©vy noises. IET Control Theory and Applications, 2017, 11, 349-358.	2.1	38
64	Multi-Linear Probabilistic Energy Flow Analysis of Integrated Electrical and Natural-Gas Systems. IEEE Transactions on Power Systems, 2017, 32, 1970-1979.	6.5	145
65	State estimation of fractional order network system based on modified fractional order Kalman filter. , 2017, , .		3
66	A historical data-driven unscented Kalman filter for distribution system state estimation. , 2017, , .		5
67	Transmission losses power compensation in a microgrid based on distributed consensus algorithm. , 2017, , .		0
68	An interval state estimation for electricity-gas urban energy systems. , 2017, , .		5
69	Optimal Tilt Angle and Orientation of Photovoltaic Modules Using HS Algorithm in Different Climates of China. Applied Sciences (Switzerland), 2017, 7, 1028.	2.5	45
70	Optimal Configuration of Energy Storage in Off-grid Micro Grid with Practical Principle. , 2017, , .		1
71	A Novel Method for Fast Configuration of Energy Storage Capacity in Stand-Alone and Grid-Connected Wind Energy Systems. Sustainability, 2016, 8, 1336.	3.2	1
72	Short-Term Wind Power Interval Forecasting Based on an EEMD-RT-RVM Model. Advances in Meteorology, 2016, 2016, 1-10.	1.6	12

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73	A Carbon Price Forecasting Model Based on Variational Mode Decomposition and Spiking Neural Networks. Energies, 2016, 9, 54.	3.1	96
74	A Hybrid Method for Generation of Typical Meteorological Years for Different Climates of China. Energies, 2016, 9, 1094.	3.1	15
75	Determination of the Optimal Tilt Angle of Solar Collectors for Different Climates of China. Sustainability, 2016, 8, 654.	3.2	34
76	Dynamic stochastic optimal power flow of wind power and the electric vehicle integrated power system considering temporal-spatial characteristics. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	4
77	Short-term wind speed forecasting based on an EEMD-CAPSO-RVM model. , 2016, , .		2
78	State estimation of nonlinear fractional order system with LÃ©vy noises by using EKF. , 2016, , .		2
79	Short term wind speed forecasting using wavelet transform and grey model improved by particle swarm optimization. , 2015, , .		3
80	A power flow algorithm for distribution networks based on the equivalent nodal injection-current transformation. , 2015, , .		1
81	Fast calculation of available transfer capability incorporating uncertainty of wind generation. , 2015, , .		1
82	Temperature-dependent optimal power flow based on simplified interior point method. , 2015, , .		4
83	Robust load frequency control of multi-area interconnected power system with time delay. , 2015, , .		4
84	Multi-Objective dynamic optimal power flow using fuzzy sets theory incorporating a carbon capture power plant. , 2015, , .		0
85	Bilinear WLAV power system state estimation based on interior point method. , 2014, , .		0
86	Distribution system state estimation considering the characteristics of power electronic loads. , 2014, , .		7
87	Direct-Current Predictive Control Strategy for Inhibiting Commutation Failure in HVDC Converter. IEEE Transactions on Power Systems, 2014, 29, 2409-2417.	6.5	150
88	An improved robust stability criteria for power system with time-varying delays. , 2014, , .		0
89	Power flow calculation for unbalanced three-phase distribution network with DGs based on phase-sequence hybrid modeling. , 2013, , .		6
90	A Novel Power System Reliability Predicting Model Based on PCA and RVM. Mathematical Problems in Engineering, 2013, 2013, 1-6.	1.1	4

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91	Positive Stability Analysis and Bio-Circuit Design for Nonlinear Biochemical Networks. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.7	0
92	Voltage Stability Bifurcation Analysis for AC/DC Systems with VSC-HVDC. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.7	6
93	Stochastic synchronization of nonlinear energy resource system via partial feedback control. Nonlinear Dynamics, 2012, 70, 2269-2278.	5.2	11
94	Stabilization and synchronization of nonlinear energy resource system using fuzzy state-feedback controller. , 2012, , .		2
95	A Commentary on Voltage Stability of Multi-Infeed AC/DC System with VSC-HDVC. , 2011, , .		2
96	Matlab-based Voltage Stability Analysis toolbox and its validity check. , 2011, , .		1
97	Matlab-based voltage stability analysis toolbox and its validity check. , 2011, , .		1