

Guoqiang Sun

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

2,262
citations

236925

25
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223800

46
g-index

97
all docs

97
docs citations

97
times ranked

1913
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid method for short-term photovoltaic power forecasting based on deep convolutional neural network. IET Generation, Transmission and Distribution, 2018, 12, 4557-4567.	2.5	178
2	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
3	Direct-Current Predictive Control Strategy for Inhibiting Commutation Failure in HVDC Converter. IEEE Transactions on Power Systems, 2014, 29, 2409-2417.	6.5	150
4	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
5	A robust optimization approach for integrated community energy system in energy and ancillary service markets. Energy, 2018, 148, 1-15.	8.8	135
6	A Carbon Price Forecasting Model Based on Variational Mode Decomposition and Spiking Neural Networks. Energies, 2016, 9, 54.	3.1	96
7	Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. IEEE Transactions on Smart Grid, 2020, 11, 1854-1865.	9.0	79
8	Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. IEEE Transactions on Power Systems, 2020, 35, 2155-2166.	6.5	73
9	Ensemble Recurrent Neural Network Based Probabilistic Wind Speed Forecasting Approach. Energies, 2018, 11, 1958.	3.1	68
10	Adaptive Robust Day-Ahead Dispatch for Urban Energy Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 1379-1390.	7.9	67
11	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
12	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
13	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
14	Identifying Optimal Energy Flow Solvability in Electricity-Gas Integrated Energy Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 846-854.	8.8	50
15	Multi-Meteorological-Factor-Based Graph Modeling for Photovoltaic Power Forecasting. IEEE Transactions on Sustainable Energy, 2021, 12, 1593-1603.	8.8	49
16	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
17	Fractional extended Kalman filtering for non-linear fractional system with Lévy noises. IET Control Theory and Applications, 2017, 11, 349-358.	2.1	38
18	Steady state and transient simulation for electricity-gas integrated energy systems by using convex optimisation. IET Generation, Transmission and Distribution, 2018, 12, 2199-2206.	2.5	37

#	ARTICLE	IF	CITATIONS
19	Optimal Power and Gas Flow With a Limited Number of Control Actions. IEEE Transactions on Smart Grid, 2018, 9, 5371-5380.	9.0	36
20	Probabilistic Residential Load Forecasting Based on Micrometeorological Data and Customer Consumption Pattern. IEEE Transactions on Power Systems, 2021, 36, 3762-3775.	6.5	36
21	Determination of the Optimal Tilt Angle of Solar Collectors for Different Climates of China. Sustainability, 2016, 8, 654.	3.2	34
22	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
23	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
24	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
25	Hybrid State Estimation for Distribution Systems With AMI and SCADA Measurements. IEEE Access, 2019, 7, 120350-120359.	4.2	27
26	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
27	Robust Ensemble Kalman Filter for Medium-Voltage Distribution System State Estimation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4114-4124.	4.7	25
28	Two-Stage Integrated Electricity and Heat Market Clearing With Energy Stations. IEEE Access, 2019, 7, 44928-44938.	4.2	24
29	Solar Power Prediction Based on Satellite Measurements " A Graphical Learning Method for Tracking Cloud Motion. IEEE Transactions on Power Systems, 2022, 37, 2335-2345.	6.5	24
30	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
31	Integrated demand response for congestion alleviation in coupled power and transportation networks. Applied Energy, 2021, 283, 116206.	10.1	22
32	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
33	Four-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
34	Corrective Security-Constrained Optimal Power and Gas Flow With Binding Contingency Identification. IEEE Transactions on Sustainable Energy, 2020, 11, 1033-1042.	8.8	19
35	Identification Technology of Grid Monitoring Alarm Event Based on Natural Language Processing and Deep Learning in China. Energies, 2019, 12, 3258.	3.1	18
36	A Robust State Estimator for Integrated Electrical and Heating Networks. IEEE Access, 2019, 7, 109990-110001.	4.2	17

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37	A Hybrid Method for Generation of Typical Meteorological Years for Different Climates of China. Energies, 2016, 9, 1094.	3.1	15
38	Parameters Estimation of Electromechanical Oscillation With Incomplete Measurement Information. IEEE Transactions on Power Systems, 2018, 33, 5016-5028.	6.5	15
39	Stochastic Adaptive Robust Dispatch for Virtual Power Plants Using the Binding Scenario Identification Approach. Energies, 2019, 12, 1918.	3.1	14
40	Short-Term Wind Power Interval Forecasting Based on an EEMD-RT-RVM Model. Advances in Meteorology, 2016, 2016, 1-10.	1.6	12
41	Stochastic synchronization of nonlinear energy resource system via partial feedback control. Nonlinear Dynamics, 2012, 70, 2269-2278.	5.2	11
42	Incentive-Compatible Market Clearing for a Two-Stage Integrated Electricity-Gas-Heat Market. IEEE Access, 2019, 7, 120984-120996.	4.2	11
43	Forecasting-aided state estimation based on deep learning for hybrid AC/DC distribution systems. Applied Energy, 2022, 306, 118119.	10.1	11
44	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
45	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
46	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
47	Distribution system state estimation considering the characteristics of power electronic loads. , 2014, , .		7
48	A Low-Carbon Dispatch Strategy for Power Systems Considering Flexible Demand Response and Energy Storage. Frontiers in Energy Research, 2022, 10, .	2.3	7
49	Power flow calculation for unbalanced three-phase distribution network with DGs based on phase-sequence hybrid modeling. , 2013, , .		6
50	Voltage Stability Bifurcation Analysis for AC/DC Systems with VSC-HVDC. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.7	6
51	The research of fault section location for distribution network based on transient feature extraction and fuzzy clustering. , 2018, , .		6
52	A historical data-driven unscented Kalman filter for distribution system state estimation. , 2017, , .		5
53	An interval state estimation for electricity-gas urban energy systems. , 2017, , .		5
54	Intelligent Classification Method for Grid-Monitoring Alarm Messages Based on Information Theory. Energies, 2019, 12, 2814.	3.1	5

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55	A Nonlinear Analytical Algorithm for Predicting the Probabilistic Mass Flow of a Radial District Heating Network. <i>Energies</i> , 2019, 12, 1215.	3.1	5
56	A Novel Power System Reliability Predicting Model Based on PCA and RVM. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-6.	1.1	4
57	Temperature-dependent optimal power flow based on simplified interior point method. , 2015, , .		4
58	Robust load frequency control of multi-area interconnected power system with time delay. , 2015, , .		4
59	Dynamic stochastic optimal power flow of wind power and the electric vehicle integrated power system considering temporal-spatial characteristics. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	4
60	A Multi-Objective Robust State Estimator for Systems Measured by Phasor Measurement Units. <i>IEEE Access</i> , 2018, 6, 14620-14628.	4.2	4
61	Study on the Transaction Management Mode of Virtual Power Plants Based on Blockchain Technology. , 2020, , .		4
62	EV Charging-Driving Navigation in Electrified Highway Network. , 2020, , .		4
63	Dynamic State Estimation for Integrated Natural Gas and Electric Power Systems. , 2021, , .		4
64	Security-Constrained Optimal Traffic-Power Flow With Adaptive Convex Relaxation and Contingency Filtering. <i>IEEE Transactions on Transportation Electrification</i> , 2023, 9, 1605-1617.	7.8	4
65	Asynchronous and Adaptive State Estimation of Integrated Electricity-Gas Energy Systems. <i>IEEE Internet of Things Journal</i> , 2023, 10, 7636-7644.	8.7	4
66	Short term wind speed forecasting using wavelet transform and grey model improved by particle swarm optimization. , 2015, , .		3
67	State estimation of fractional order network system based on modified fractional order Kalman filter. , 2017, , .		3
68	Distributed hierarchical consensus algorithm for economic dispatch in smart grid. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 5541-5549.	2.5	3
69	Survey on negative line loss rate of transformer region: Rectification measures and challenges. <i>AIP Advances</i> , 2020, 10, .	1.3	3
70	Strategic Investment in Power and Heat Markets: A Nash-Cournot Equilibrium Model. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 6057-6067.	11.3	3
71	A Commentary on Voltage Stability of Multi-Infeed AC/DC System with VSC-HDVC. , 2011, , .		2
72	Stabilization and synchronization of nonlinear energy resource system using fuzzy state-feedback controller. , 2012, , .		2

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73	Short-term wind speed forecasting based on an EEMD-CAPSO-RVM model. , 2016, , .		2
74	State estimation of nonlinear fractional order system with Lévy noises by using EKF. , 2016, , .		2
75	Distribution Network Reconfiguration Based on SOCP Considering the Access of Photovoltaic Electric Vehicle Charging Tower. , 2018, , .		2
76	Research on Robust Day-Ahead Dispatch Considering Primary Frequency Response of Wind Turbine. Applied Sciences (Switzerland), 2019, 9, 1784.	2.5	2
77	Electricity Theft Detection Model for Smart Meter Based on Residual Neural Network. , 2020, , .		2
78	A Two-Stage Cooperative Dispatch Model for Power Systems Considering Security and Source-Load Interaction. Sustainability, 2021, 13, 13350.	3.2	2
79	Real-Time Recursive Correction State Estimation Utilizing Only SCADA Measurements. , 2021, , .		2
80	Matlab-based Voltage Stability Analysis toolbox and its validity check. , 2011, , .		1
81	Matlab-based voltage stability analysis toolbox and its validity check. , 2011, , .		1
82	A power flow algorithm for distribution networks based on the equivalent nodal injection-current transformation. , 2015, , .		1
83	Fast calculation of available transfer capability incorporating uncertainty of wind generation. , 2015, , .		1
84	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
85	Optimal Configuration of Energy Storage in Off-grid Micro Grid with Practical Principle. , 2017, , .		1
86	A Combined Optimization Structure of Adaptive Neuro-fuzzy Inference System for Probabilistic Photovoltaic Power Forecasting. , 2019, , .		1
87	Risk Assessment of Integrated Electricity-Heat Energy System with Cross Entropy and Objective Entropy Weight Method. , 2020, , .		1
88	A Flexible Demand Response Dispatch Strategy Considering Multiple Response Modes and Wind Power Uncertainty. Applied Sciences (Switzerland), 2021, 11, 10165.	2.5	1
89	Positive Stability Analysis and Bio-Circuit Design for Nonlinear Biochemical Networks. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.7	0
90	Bilinear WLAV power system state estimation based on interior point method. , 2014, , .		0

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91	An improved robust stability criteria for power system with time-varying delays. , 2014, , .		0
92	Multi-Objective dynamic optimal power flow using fuzzy sets theory incorporating a carbon capture power plant. , 2015, , .		0
93	Transmission losses power compensation in a microgrid based on distributed consensus algorithm. , 2017, , .		0
94	Load Forecast of Building Integrated Energy System Based on Similar Day Method. , 2020, , .		0
95	Research on Security Region of AC/DC Hybrid Active Distribution Network. , 2021, , .		0
96	A Novel Fault Location Method for Distribution Networks Based on Transient Energy Relative Entropy of FDM Transform. , 2020, , .		0
97	The Regional Rooftop Photovoltaic Potential User Mining and Power Generation Capacity Evaluation based on the Remote Sensing Image Recognition. , 2021, , .		0