

Qinglai Guo

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154
papers

2,991
citations

30
h-index

49
g-index

203
ext. papers

4,176
ext. citations

7.1
avg. IF

5.89
L-index

#	Paper	IF	Citations
154	Interactions of district electricity and heating systems considering time-scale characteristics based on quasi-steady multi-energy flow. <i>Applied Energy</i> , 2016 , 167, 230-243	10.7	135
153	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1484-1492	10.7	121
152	Review of Challenges and Research Opportunities for Voltage Control in Smart Grids. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2790-2801	7	114
151	Feasible region method based integrated heat and electricity dispatch considering building thermal inertia. <i>Applied Energy</i> , 2017 , 192, 395-407	10.7	114
150	Rapid-Charging Navigation of Electric Vehicles Based on Real-Time Power Systems and Traffic Data. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 1969-1979	10.7	99
149	Cyber-Physical Modeling and Cyber-Contingency Assessment of Hierarchical Control Systems. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2375-2385	10.7	94
148	Coordinated Economic Dispatch of Coupled Transmission and Distribution Systems Using Heterogeneous Decomposition. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4817-4830	7	91
147	Coordinated Transmission and Distribution AC Optimal Power Flow. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 1228-1240	10.7	90
146	Distributed Model Predictive Control of a Wind Farm for Optimal Active Power ControlPart I: Clustering-Based Wind Turbine Model Linearization. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 831-839	8.2	73
145	Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4516-4527	7	67
144	. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 5147-5160	7	64
143	Two-stage robust planning-operation co-optimization of energy hub considering precise energy storage economic model. <i>Applied Energy</i> , 2019 , 252, 113372	10.7	62
142	Distributed Model Predictive Control of a Wind Farm for Optimal Active Power ControlPart II: Implementation With Clustering-Based Piece-Wise Affine Wind Turbine Model. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 840-849	8.2	58
141	An Adaptive Zone-Division-Based Automatic Voltage Control System With Applications in China. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1816-1828	7	58
140	Interval Power Flow Analysis Using Linear Relaxation and Optimality-Based Bounds Tightening (OBBT) Methods. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 177-188	7	55
139	Emission-Concerned Wind-EV Coordination on the Transmission Grid Side With Network Constraints: Concept and Case Study. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1692-1704	10.7	54
138	A New LMP-Sensitivity-Based Heterogeneous Decomposition for Transmission and Distribution Coordinated Economic Dispatch. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 931-941	10.7	52

137	Coordinated Voltage Control of a Wind Farm Based on Model Predictive Control. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1440-1451	8.2	51
136	Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 583-594	8.2	49
135	. <i>IEEE Electrification Magazine</i> , 2018 , 6, 42-50	2.6	49
134	Hierarchical automatic voltage control for integration of large-scale wind power: Design and implementation. <i>Electric Power Systems Research</i> , 2015 , 120, 234-241	3.5	48
133	Sufficient Conditions for Exact Relaxation of Complementarity Constraints for Storage-Concerned Economic Dispatch. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1653-1654	7	46
132	Transmission Contingency Analysis Based on Integrated Transmission and Distribution Power Flow in Smart Grid. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3356-3367	7	45
131	A novel data-driven approach for transient stability prediction of power systems considering the operational variability. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 107, 379-394	5.1	45
130	Optimal active power control of a wind farm equipped with energy storage system based on distributed model predictive control. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 669-677	2.5	42
129	A Distributed Transmission-Distribution-Coupled Static Voltage Stability Assessment Method Considering Distributed Generation. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2621-2632	7	40
128	Fatigue Load Sensitivity-Based Optimal Active Power Dispatch For Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 1247-1259	8.2	38
127	A generalized quasi-dynamic model for electric-heat coupling integrated energy system with distributed energy resources. <i>Applied Energy</i> , 2019 , 251, 113270	10.7	35
126	. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 460-470	10.7	32
125	Utilizing Unlabeled Data to Detect Electricity Fraud in AMI: A Semisupervised Deep Learning Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 3287-3299	10.3	31
124	Study on wind-EV complementation in transmission grid side 2011 ,		30
123	Distributed Discrete Robust Secondary Cooperative Control for Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3620-3629	10.7	28
122	Probabilistic power flow analysis considering the dependence between power and heat. <i>Applied Energy</i> , 2017 , 191, 582-592	10.7	27
121	Optimal Voltage Control of PJM Smart Transmission Grid: Study, Implementation, and Evaluation. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1665-1674	10.7	27
120	Robust Routing Optimization for Smart Grids Considering Cyber-Physical Interdependence. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5620-5629	10.7	27

119	Information-Energy Flow Computation and Cyber-Physical Sensitivity Analysis for Power Systems. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017 , 7, 329-341	5.2	26
118	Applying blockchain technology to decentralized operation in future energy internet 2017 ,		25
117	Generalized Master-Blave-Splitting Method and Application to Transmission-Distribution Coordinated Energy Management. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 5169-5183	7	24
116	EV charging behaviour analysis and modelling based on mobile crowdsensing data. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 1683-1691	2.5	22
115	Generalized Locational Marginal Pricing in a Heat-and-Electricity-Integrated Market. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6414-6425	10.7	21
114	A deep spatial-temporal data-driven approach considering microclimates for power system security assessment. <i>Applied Energy</i> , 2019 , 237, 36-48	10.7	21
113	. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 2904-2917	10.7	20
112	Absolute Value Constraint Based Method for Interval Optimization to SCED Model. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 980-981	7	20
111	Fast Coordinated Control of DFIG Wind Turbine Generators for Low and High Voltage Ride-Through. <i>Energies</i> , 2014 , 7, 4140-4156	3.1	20
110	Impact of Coupled Transmission-Distribution on Static Voltage Stability Assessment. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3311-3312	7	19
109	A Distributed Computing Platform Supporting Power System Security Knowledge Discovery Based on Online Simulation. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1513-1524	10.7	17
108	A water mass method and its application to integrated heat and electricity dispatch considering thermal inertias. <i>Energy</i> , 2019 , 181, 840-852	7.9	17
107	Decentralized Unit Commitment in Integrated Heat and Electricity Systems Using SDM-GS-ALM. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2322-2333	7	17
106	A robust aggregate model and the two-stage solution method to incorporate energy intensive enterprises in power system unit commitment. <i>Applied Energy</i> , 2017 , 206, 1364-1378	10.7	16
105	Dynamic reactive power optimal allocation to decrease wind power curtailment in a large-scale wind power integration area. <i>IET Renewable Power Generation</i> , 2017 , 11, 1667-1678	2.9	16
104	Coordinated Dispatch of Integrated Electric and District Heating Systems Using Heterogeneous Decomposition. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1495-1507	8.2	16
103	Automatic Learning of Fine Operating Rules for Online Power System Security Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 1708-19	10.3	15
102	A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3545-3557	10.7	15

101	Autonomous Voltage Security Regions to Prevent Cascading Trip Faults in Wind Turbine Generators. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1306-1316	8.2	15
100	Practical short-term voltage stability index based on voltage curves: definition, verification and case studies. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4292-4300	2.5	15
99	Information Masking Theory for Data Protection in Future Cloud-Based Energy Management. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5664-5676	10.7	14
98	Exact Penalty Function Based Constraint Relaxation Method for Optimal Power Flow Considering Wind Generation Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1546-1547	7	14
97	Nontechnical Losses Detection Through Coordinated BiWGAN and SVDD. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 1866-1880	10.3	14
96	Profit-seeking energy-intensive enterprises participating in power system scheduling: Model and mechanism. <i>Applied Energy</i> , 2015 , 158, 263-274	10.7	13
95	An Improved Real-Time Short-Term Voltage Stability Monitoring Method Based on Phase Rectification. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1068-1070	7	13
94	Transmission Contingency Screening Considering Impacts of Distribution Grids. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1659-1660	7	13
93	Modeling of Time-Delayed Distributed Cyber-Physical Power Systems for Small-Signal Stability Analysis. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3425-3437	10.7	13
92	Distribution-Free Probability Density Forecast Through Deep Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 612-625	10.3	13
91	A model and data hybrid-driven short-term voltage stability real-time monitoring method. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 114, 105373	5.1	13
90	Aggregating Additional Flexibility From Quick-Start Devices for Multi-Energy Virtual Power Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 646-658	8.2	13
89	Impacts of optimization interval on home energy scheduling for thermostatically controlled appliances. <i>CSEE Journal of Power and Energy Systems</i> , 2015 , 1, 90-100	2.3	12
88	Deployment of the Electric Vehicle Charging Station Considering Existing Competitors. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4236-4248	10.7	12
87	A Static Voltage Security Region for Centralized Wind Power Integration Part II: Applications. <i>Energies</i> , 2014 , 7, 444-461	3.1	12
86	Development and applications of system-wide automatic voltage control system in China 2009 ,		12
85	Transient Stability Assessment of Power Systems Using Cost-sensitive Deep Learning Approach 2018 ,		12
84	Robust planning-operation co-optimization of energy hub considering precise model of batteries economic efficiency. <i>Energy Procedia</i> , 2019 , 158, 6496-6501	2.3	11

83	Robust Estimation of Reactive Power for an Active Distribution System. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3395-3407	7	11
82	Dynamic reactive power reserve optimisation in wind power integration areas. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 507-517	2.5	11
81	A stochastic distribution system planning method considering regulation services and energy storage degradation. <i>Applied Energy</i> , 2020 , 277, 115520	10.7	11
80	Optimal siting and sizing of Energy Storage System for power systems with large-scale wind power integration 2015 ,		10
79	A Spinning Reserve Allocation Method for Power Generation Dispatch Accommodating Large-Scale Wind Power Integration. <i>Energies</i> , 2013 , 6, 5357-5381	3.1	10
78	Confidentiality preservation in user-side integrated energy system management for cloud computing. <i>Applied Energy</i> , 2018 , 231, 1230-1245	10.7	10
77	Multivariate statistical analysis-based power-grid-partitioning method. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1023-1031	2.5	9
76	A Static Voltage Security Region for Centralized Wind Power Integration Part I: Concept and Method. <i>Energies</i> , 2014 , 7, 420-443	3.1	9
75	Coordination on Industrial Load Control and Climate Control in Manufacturing Industry Under TOU Prices. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 139-152	10.7	9
74	Analyzing power and dynamic traffic flows in coupled power and transportation networks. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110083	16.2	9
73	EMS communication routings optimization to enhance power system security considering cyber-physical interdependence. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2018 , 3, 44-53	2.5	8
72	A future outlook for cyber-physical power system 2017 ,		8
71	Research on architecture of ITS based Smart Charging Guide System 2011 ,		8
70	A Hybrid State Estimation Approach for Integrated Heat and Electricity Networks Considering Time-scale Characteristics. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 636-645	4	8
69	Dynamic pricing for integrated energy-traffic systems from a cyber-physical-human perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 136, 110419	16.2	8
68	On the resilience of modern power systems: A comprehensive review from the cyber-physical perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111642	16.2	8
67	Robust Voltage Control Strategy for Hybrid AC/DC Sending-Side Systems to Prevent Cascading Trip Failures. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1319-1329	8.2	7
66	Voltage security regions considering wind power curtailment to prevent cascading trip faults in wind power integration areas. <i>IET Renewable Power Generation</i> , 2017 , 11, 54-62	2.9	6

65	Family of energy management system for smart grid 2012 ,		6
64	Integrated Heat and Electricity Dispatch for District Heating Networks With Constant Mass Flow: A Generalized Phasor Method. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 426-437	7	6
63	Generalized phasor modeling of dynamic gas flow for integrated electricity-gas dispatch. <i>Applied Energy</i> , 2021 , 283, 116153	10.7	6
62	Robust Regional Coordination of Inverter-Based Volt/Var Control via Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	6
61	A deep learning approach for power system knowledge discovery based on multitask learning. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 733-740	2.5	5
60	Substation three-phase nonlinear state estimation based on KCL 2011 ,		5
59	Power-traffic network equilibrium incorporating behavioral theory: A potential game perspective. <i>Applied Energy</i> , 2021 , 289, 116703	10.7	5
58	From Uncertainty Elimination to Profit Enhancement: Role of Data in Demand Response 2019 ,		5
57	A Two-Level Distributed Approach to Power Network Modeling. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1496-1504	4.3	4
56	A Response-Function-Based Coordination Method for Transmission - Distribution-Coupled AC OPF 2018 ,		4
55	A Load Fluctuation Characteristic Index and Its Application to Pilot Node Selection. <i>Energies</i> , 2014 , 7, 115-129	3.1	4
54	Integrated pricing framework for optimal power and semi-dynamic traffic flow problem. <i>IET Renewable Power Generation</i> , 2020 , 14, 3636-3643	2.9	4
53	A data-driven approach towards fast economic dispatch in electricity-gas coupled systems based on artificial neural network. <i>Applied Energy</i> , 2021 , 286, 116480	10.7	4
52	Data valuation for decision-making with uncertainty in energy transactions: A case of the two-settlement market system. <i>Applied Energy</i> , 2021 , 288, 116643	10.7	4
51	Reconfiguration of District Heating Network for Operational Flexibility Enhancement in Power System Unit Commitment. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 1161-1173	8.2	4
50	Improving Flexibility for Microgrids by Coordinated Optimization of Electricity and Steam Networks. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 314-324	8.2	4
49	. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 1-1	8.2	4
48	Short-Term Voltage Stability-Constrained Unit Commitment for Receiving-End Grid With Multi-Infeed HVDCs. <i>IEEE Transactions on Power Systems</i> , 2020 , 1-1	7	3

47	A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1060-1070	8.2	3
46	Data driven method for transient stability prediction of power systems considering incomplete measurements 2017 ,		3
45	Case studies of demand response in multi-energy industrial parks 2017 ,		3
44	A decentralized optimization method to track electric vehicle aggregator's optimal charging plan 2014 ,		3
43	Research on the optimization of combined heat and power microgrids with renewable energy 2014 ,		3
42	A Novel Privacy Protection Framework for Power Generation Data based on Generative Adversarial Networks 2019 ,		3
41	A Game-Theoretic Approach to Analyzing Equilibria in Coupled Power and Transportation Networks 2019 ,		3
40	A two-level hierarchical discrete-device control method for power networks with integrated wind farms. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 88-98	4	3
39	Stochastic User Equilibrium in Charging Station Selection Based on Discrete Choice Model 2018 ,		3
38	Abductive identification of bad data: methodology and field test. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 150-159	2.5	2
37	Cyber-physical assessment and comparison between centralized and distributed control mode in coordinated substation voltage control 2016 ,		2
36	Building energy management based on demand response strategy considering dynamic thermal characteristic 2017 ,		2
35	Nash bargain and complementarity approach based efficient/economic dispatch in combined cooling heating and power system 2017 ,		2
34	Influence of N-1 contingency in natural gas system on power system 2017 ,		2
33	Optimal Dispatch Based on Aggregated Operation Region of EVs Considering Spatio-Temporal Distribution. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 1-1	8.2	2
32	Decomposition approach for the interdependency analysis of integrated power and transportation systems. <i>IET Smart Grid</i> , 2020 , 3, 825-834	2.7	2
31	Privacy preservation method for MIQP-based energy management problem: A cloud-edge framework. <i>Electric Power Systems Research</i> , 2021 , 190, 106850	3.5	2
30	Research on Collaborative Optimization Model of Park-level Integrated Energy System Participating in Power Peak Shaving 2018 ,		2

29	Day-ahead voltage scheduling method based on a two-stage robust optimisation for VSC-HVDC connected wind farms. <i>IET Renewable Power Generation</i> , 2018 , 12, 1470-1477	2.9	2
28	The impact of synchronous distributed control period on inverter-based cyber-physical microgrids stability with time delay. <i>Applied Energy</i> , 2021 , 301, 117440	10.7	2
27	Coordinated pricing of coupled urban Power-Traffic Networks: The value of information sharing. <i>Applied Energy</i> , 2021 , 301, 117428	10.7	2
26	Robust unit commitment considering reserve from grid-scale energy storage 2016 ,		1
25	TOU-based optimal energy management for smart home 2013 ,		1
24	A multi-objective evaluation method for distributed integrated energy system 2017 ,		1
23	Charging station selection optimization based on electric and traffic information 2017 ,		1
22	Optimal dispatch model for district heating network based on interior-point method 2017 ,		1
21	A routing optimization model for EMS of power systems considering cyber-physical interdependence 2017 ,		1
20	Heating network quasi-dynamic model of multi-energy flow system based on forward method 2017 ,		1
19	Wind farm side optimal power flow based on DistFlow and SOCP: Model and case study 2014 ,		1
18	Real-time local voltage stability monitoring based on PMU and recursive least square method with variable forgetting factors 2012 ,		1
17	A sensitivity based simplified model for security constrained optimal power flow 2012 ,		1
16	Distributed Automatic Voltage Control framework for large-scale wind integration in China 2012 ,		1
15	A hybrid simulation method for EVs' operation considering power grid and traffic information 2013 ,		1
14	Power system online security operational trend analysis and simulation results 2013 ,		1
13	Study of system-wide Automatic Voltage Control on PJM system 2010 ,		1
12	An online intelligent alarm-processing system based on abductive reasoning network 2012 ,		1

11	Leverage Reactive Power Ancillary Service under High Penetration of Renewable Energies: An Incentive-Compatible Obligation-Based Market Mechanism. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	1
10	Prospects for Energy Internet of Agricultural Engineering in China 2019 ,		1
9	Interpretable Neighborhood Deep Models for Online Total Transfer Capability Evaluation of Power Systems. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	1
8	Study on the dynamic reactive power characteristics of MMC-MTDC for wind farm integration. <i>Journal of Engineering</i> , 2017 , 2017, 691-695	0.7	0
7	Robust optimal shunt dispatch method in wind farm integration area. <i>Journal of Engineering</i> , 2017 , 2017, 1829-1832	0.7	0
6	Novel properties of heterogeneous delay in inverter-based cyberphysical microgrids under fully distributed control. <i>Applied Energy</i> , 2022 , 306, 118102	10.7	0
5	A Data-Driven Warm Start Approach for Convex Relaxation in Optimal Gas Flow. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	0
4	Mechanism design for data sharing: An electricity retail perspective. <i>Applied Energy</i> , 2022 , 314, 118871	10.7	0
3	Equivalencing-tracking-based method for incorporating distributed energy resources in transmission system economic dispatch. <i>Journal of Engineering</i> , 2017 , 2017, 1029-1034	0.7	
2	Internet-of-Things technology and applications for clean energy systems. <i>Energy Conversion and Economics</i> , 2021 , 2, 183-185	0.7	
1	On the Real-time Quantification of Flexibility Provided by District Heating Networks Considering Dynamic Temperature Distribution. <i>IEEE Transactions on Sustainable Energy</i> , 2022 , 1-1	8.2	