

Junyong Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

977
citations

17
h-index

27
g-index

182
ext. papers

1,464
ext. citations

4.1
avg, IF

4.96
L-index

#	Paper	IF	Citations
103	Time-segmented Multi-level Reconfiguration in Distribution Network: A Novel Cloud-edge Collaboration Framework. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	
102	Short-circuit current constrained unit commitment and transmission switching model for improving renewable integration: An MILP formulation. <i>IET Generation, Transmission and Distribution</i> , 2022 , 16, 1743-1755	2.5	1
101	Learning-Aided Optimal Power Flow Based Fast Total Transfer Capability Calculation. <i>Energies</i> , 2022 , 15, 1320	3.1	1
100	Planning of New Distribution Network Considering Green Power Certificate Trading and Carbon Emissions Trading. <i>Energies</i> , 2022 , 15, 2435	3.1	0
99	Integrated Planning of Cyber-Physical Active Distribution System Considering Multi-Dimensional Uncertainties. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	1
98	Operational Reliability Assessment of Distribution Network With Energy Storage Systems. <i>IEEE Systems Journal</i> , 2022 , 1-11	4.3	
97	Optimal Prosumers Peer-to-Peer Energy Trading and Scheduling in Distribution Networks. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
96	Resilience Assessment of Hydrogen Integrated Energy System for Airport Electrification. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
95	Hybrid Deep Learning for Dynamic Total Transfer Capability Control. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 2733-2736	7	1
94	CVaR-based generation expansion planning of cascaded hydro-photovoltaic-pumped storage system with uncertain solar power considering flexibility constraints. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 2953	2.5	0
93	Probabilistic Stacked Denoising Autoencoder for Power System Transient Stability Prediction With Wind Farms. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3786-3789	7	4
92	An Improved ADMM-Based Distributed Optimal Operation Model of AC/DC Hybrid Distribution Network Considering Wind Power Uncertainties. <i>IEEE Systems Journal</i> , 2021 , 15, 2201-2211	4.3	4
91	DDPG-Based Multi-Agent Framework for SVC Tuning in Urban Power Grid With Renewable Energy Resources. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	4
90	A Hybrid Agent-based Model Predictive Control Scheme for Smart Community Energy System with Uncertain DGs and Loads. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 573-584	4	1
89	Deep Belief Network Enabled Surrogate Modeling for Fast Preventive Control of Power System Transient Stability. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	5
88	Surrogate-assisted optimal re-dispatch control for risk-aware regulation of dynamic total transfer capability. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 1949	2.5	3
87	Analytic Deep Learning-Based Surrogate Model for Operational Planning With Dynamic TTC Constraints. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3507-3519	7	4

86	Prioritized Replay Dueling DDQN Based Grid-Edge Control of Community Energy Storage System. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	2
85	An Improved Fuzzy Method for Characterizing Wind Power. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 459-462	4	0
84	Evaluating Connectable Capacity of Distributed Wind Generation in Distribution Networks Through a Bayesian Integrated Optimization Method. <i>IEEE Systems Journal</i> , 2021 , 1-11	4.3	2
83	Data-driven distributionally robust joint planning of distributed energy resources in active distribution network. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1653-1662	2.5	9
82	Price Incentive-Based Charging Navigation Strategy for Electric Vehicles. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5762-5774	4.3	16
81	Investment decision optimization for distribution network planning with correlation constraint. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12323	2.2	2
80	. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4088-4099	7	10
79	Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4220-4231	7	19
78	Mitigating Downward Reserve Deficiency of Power System via Coordinating EV Demand Response at Valley Period. <i>IEEE Access</i> , 2020 , 8, 112368-112378	3.5	1
77	A Personalized Fast-Charging Navigation Strategy Based on Mutual Effect of Dynamic Queuing. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5729-5740	4.3	7
76	Optimal Planning of Distribution Network Based on K-means Clustering 2020 ,		1
75	Bi-level Collaborative Expansion Planning for Power Grid and Plants Considering Operational Flexibility 2020 ,		1
74	Probabilistic Chronological Production Simulation-Based Coordinated Dispatching for Cascaded Hydro-PV-PSH Combined Power Generation System. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-14	1.1	2
73	Multi-area Peer-to-Peer Energy Trading 2020 ,		1
72	Applying multiple types of demand response to optimal day-ahead stochastic scheduling in the distribution network. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4509-4519	2.5	7
71	LSTM auto-encoder based representative scenario generation method for hybrid hydro-PV power system. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 5935-5943	2.5	9
70	Two-stage optimal MPC for hybrid energy storage operation to enable smooth wind power integration. <i>IET Renewable Power Generation</i> , 2020 , 14, 2477-2486	2.9	5
69	Wind-pv interval forecasting based on adaptive decomposition and probabilistic regularised extreme learning machine. <i>IET Renewable Power Generation</i> , 2020 , 14, 3181-3191	2.9	4

68	Fog-Computing-Based Short-Circuit Diagnosis Scheme. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3359-3371	7	5
67	. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 2959-2970	7	6
66	An Explicit Formula Based Estimation Method for Distribution Network Reliability. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 2109-2112	4.3	1
65	Electrical Vehicle Charging Services Planning and Operation with Interdependent Power Networks and Transportation Networks: A Review of the Current Scenario and Future Trends. <i>Energies</i> , 2020 , 13, 3371	3.1	9
64	Reactive power operability of distributed energy resources for voltage stability of distribution networks. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 851-861	4	8
63	Coordinating voltage regulation for an AC/DC hybrid distribution network with multiple SSTs. <i>Journal of Engineering</i> , 2019 , 2019, 1368-1372	0.7	4
62	Incentive-based demand response model for maximizing benefits of electricity retailers. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 1644-1650	4	25
61	A Power Exchange Strategy for Multiple Areas with Hydro Power and Flexible Loads. <i>Energies</i> , 2019 , 12, 1160	3.1	0
60	Alleviating congestion of hybrid urban grid by VSC-control and AC-line switching. <i>Journal of Engineering</i> , 2019 , 2019, 1763-1766	0.7	1
59	Agent-Based Coordinated Operation Strategy for Active Distribution Network With Distributed Energy Resources. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3310-3320	4.3	25
58	Electric vehicles in smart grid: a survey on charging load modelling. <i>IET Smart Grid</i> , 2019 , 2, 25-33	2.7	14
57	Ensemble Learning for Power Systems TTC Prediction With Wind Farms. <i>IEEE Access</i> , 2019 , 7, 16572-16583	3.5	6
56	Operational Reliability Assessment for Gas-Electric Integrated Distribution Feeders. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1091-1100	10.7	20
55	Power Grid Reliability Evaluation Considering Wind Farm Cyber Security and Ramping Events. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3003	2.6	3
54	Optimal Planning of AC/DC hybrid system with Renewable Generations: An Expansion Planning Model 2019 ,		1
53	Tight Mixed-Integer Linear Programming Formulation for Energy Storage Assets in NCUC Problem 2019 ,		1
52	Risk awareness enabled sizing approach for hybrid energy storage system in distribution network. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 3814-3822	2.5	3
51	Determining deep peak-regulation reserve for power system with high-share of renewable energy based on virtual energy storage 2019 ,		3

50	Optimal Investment Planning of Distribution Network Considering Customers Reliability Requirements 2019 ,		1
49	Distributionally Robust Optimal DG Allocation Model Considering Flexible Adjustment of Demand Response 2019 ,		2
48	Online TTC Estimation Using Nonparametric Analytics Considering Wind Power Integration. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 494-505	7	19
47	Optimal Sizing of Energy Storage System in Active Distribution Networks Using Fourier Legendre Series Based State of Energy Function. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2313-2315	7	24
46	Robust Coordinated Optimization of Active and Reactive Power in Active Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 4436-4447	10.7	79
45	Agent-Based Modeling for Scale Evolution of Plug-in Electric Vehicles and Charging Demand. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1915-1925	7	28
44	Integrated traffic-power simulation framework for electric vehicle charging stations based on cellular automaton. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018 , 6, 816-820	4	4
43	Integrated Day-Ahead Scheduling Considering Active Management in Future Smart Distribution System. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 6049-6061	7	20
42	Decentralized Energy Management for Networked Microgrids in Future Distribution Systems. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3599-3610	7	93
41	Day-Ahead Scheduling of Combined Natural Gas and Electricity System with Mid-and Long-Term Electricity Contract Decomposition 2018 ,		1
40	Non-parametric statistics-based predictor enabling online transient stability assessment. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 5761-5769	2.5	10
39	A Fast Screen and Shape Recognition Algorithm for Multiple Change-Point Detection. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-10	1.1	1
38	Optimal Allocation Model for EV Charging Stations Coordinating Investor and User Benefits. <i>IEEE Access</i> , 2018 , 6, 36039-36049	3.5	22
37	Development of EV charging templates: an improved K-prototypes method. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4361-4367	2.5	6
36	A sliding window-based dynamic load balancing for heterogeneous Hadoop clusters. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e3763	1.4	7
35	A MapReduce Based High Performance Neural Network in Enabling Fast Stability Assessment of Power Systems. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-12	1.1	6
34	A coordinated charging strategy for electric vehicle considering three-phase load unbalance 2017 ,		2
33	An Economic Criterion for Distributed Renewable Generation Planning. <i>Electric Power Components and Systems</i> , 2017 , 45, 1298-1304	1	2

32	Novel pair-wise relative energy function for transient stability analysis and real-time emergency control. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 4565-4575	2.5	10
31	The power system risk assessment under rainfall weather and subsequent geological disasters 2016 ,		1
30	Multi-stage sizing approach for development of utility-scale BESS considering dynamic growth of distributed photovoltaic connection. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016 , 4, 554-564	4	6
29	A MapReduce-based parallel K-means clustering for large-scale CIM data verification. <i>Concurrency Computation Practice and Experience</i> , 2016 , 28, 3096-3114	1.4	7
28	Multi-Objective Distribution Network Expansion Incorporating Electric Vehicle Charging Stations. <i>Energies</i> , 2016 , 9, 909	3.1	18
27	A Chance-constrained Optimization Model for Determining Renewables Penetration Limit in Power Systems. <i>Electric Power Components and Systems</i> , 2016 , 44, 701-712	1	6
26	Optimal Active Distribution Network Planning: A Review. <i>Electric Power Components and Systems</i> , 2016 , 44, 1075-1094	1	35
25	Investigation on Impacts of Alternative Generation Siting in Power Grids from the View of Complex Network Theory. <i>Electric Power Components and Systems</i> , 2016 , 44, 820-831	1	5
24	Gain scheduling based backstepping control for motion balance adjusting of a power-line inspection robot 2016 ,		4
23	High-performance predictor for critical unstable generators based on scalable parallelized neural networks. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016 , 4, 414-426	4	13
22	Robust Energy Management of Microgrid With Uncertain Renewable Generation and Load. <i>IEEE Transactions on Smart Grid</i> , 2015 , 1-1	10.7	100
21	Parallel Detrended Fluctuation Analysis for Fast Event Detection on Massive PMU Data. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 360-368	10.7	27
20	Review and prospect of active distribution system planning. <i>Journal of Modern Power Systems and Clean Energy</i> , 2015 , 3, 457-467	4	33
19	Active energy management strategies for active distribution system. <i>Journal of Modern Power Systems and Clean Energy</i> , 2015 , 3, 533-543	4	13
18	A novel congestion management method in high-voltage distribution network based on logic constrains of functional units 2015 ,		1
17	Flexible transmission expansion planning associated with large-scale wind farms integration considering demand response. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 2276-2283	2.5	59
16	Two-stage Control Strategy for Structure Optimization of Faulted Distribution System with Distributed Generation. <i>Electric Power Components and Systems</i> , 2014 , 42, 595-604	1	1
15	Network model of bilateral power markets based on complex networks. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450144	1.1	1

14	Power system reliability evaluation considering substation interior under protection failure impact 2014,		1
13	Big data analytics on PMU measurements 2014,		15
12	A new method of enhancing reliability for transmission expansion planning. <i>Journal of Modern Power Systems and Clean Energy</i> , 2014 , 2, 341-349	4	3
11	Big Data Management in Digital Forensics 2014,		2
10	Researches on Electric Vehicles Access in Demonstration District Considering Network Losses 2012,		1
9	A Research on Power System Adaptive Load Shedding Based on WAMS Assisted Prediction 2012,		1
8	Electric vehicle charging station planning based on weighted Voronoi diagram 2011,		5
7	Hybrid simulation of generation and transmission planning in market environment 2011,		1
6	Notice of Retraction: The Classification Method of Price Response Sensitivity Based on Time Delay 2010,		1
5	Notice of Retraction: A Matching Model of the Direct Power Transaction Based on the Bilateral Patterns 2010,		1
4	Line reconnection strategies considering dynamic processes during load restoration period 2009,		1
3	Configure vulnerability assessment based on potential energy model 2009,		1
2	A new vulnerability evaluation model to electric power grid 2009,		2
1	A risk-evasion TOU pricing method for distribution utility in deregulated market environment		3