Junyong Liu

List of Publications by Citations

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	Robust Energy Management of Microgrid With Uncertain Renewable Generation and Load. *IEEE Transactions on Smart Grid*, **2015**, 1-1	10.7	100
102	Decentralized Energy Management for Networked Microgrids in Future Distribution Systems. *IEEE Transactions on Power Systems*, **2018**, 33, 3599-3610	7	93
101	Robust Coordinated Optimization of Active and Reactive Power in Active Distribution Systems. *IEEE Transactions on Smart Grid*, **2018**, 9, 4436-4447	10.7	79
100	Flexible transmission expansion planning associated with large-scale wind farms integration considering demand response. *IET Generation, Transmission and Distribution*, **2015**, 9, 2276-2283	2.5	59
99	Optimal Active Distribution Network Planning: A Review. *Electric Power Components and Systems*, **2016**, 44, 1075-1094	1	35
98	Review and prospect of active distribution system planning. *Journal of Modern Power Systems and Clean Energy*, **2015**, 3, 457-467	4	33
97	Agent-Based Modeling for Scale Evolution of Plug-in Electric Vehicles and Charging Demand. *IEEE Transactions on Power Systems*, **2018**, 33, 1915-1925	7	28
96	Parallel Detrended Fluctuation Analysis for Fast Event Detection on Massive PMU Data. *IEEE Transactions on Smart Grid*, **2015**, 6, 360-368	10.7	27
95	Incentive-based demand response model for maximizing benefits of electricity retailers. *Journal of Modern Power Systems and Clean Energy*, **2019**, 7, 1644-1650	4	25
94	Agent-Based Coordinated Operation Strategy for Active Distribution Network With Distributed Energy Resources. *IEEE Transactions on Industry Applications*, **2019**, 55, 3310-3320	4.3	25
93	Optimal Sizing of Energy Storage System in Active Distribution Networks Using Fourier–Legendre Series Based State of Energy Function. *IEEE Transactions on Power Systems*, **2018**, 33, 2313-2315	7	24
92	Optimal Allocation Model for EV Charging Stations Coordinating Investor and User Benefits. *IEEE Access*, **2018**, 6, 36039-36049	3.5	22
91	Integrated Day-Ahead Scheduling Considering Active Management in Future Smart Distribution System. *IEEE Transactions on Power Systems*, **2018**, 33, 6049-6061	7	20
90	Operational Reliability Assessment for Gas-Electric Integrated Distribution Feeders. *IEEE Transactions on Smart Grid*, **2019**, 10, 1091-1100	10.7	20
89	Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. *IEEE Transactions on Power Systems*, **2020**, 35, 4220-4231	7	19
88	Online TTC Estimation Using Nonparametric Analytics Considering Wind Power Integration. *IEEE Transactions on Power Systems*, **2019**, 34, 494-505	7	19
87	Multi-Objective Distribution Network Expansion Incorporating Electric Vehicle Charging Stations. *Energies*, **2016**, 9, 909	3.1	18

86	Price Incentive-Based Charging Navigation Strategy for Electric Vehicles. *IEEE Transactions on Industry Applications*, **2020**, 56, 5762-5774	4.3	16
85	Big data analytics on PMU measurements **2014**,		15
84	Electric vehicles in smart grid: a survey on charging load modelling. *IET Smart Grid*, **2019**, 2, 25-33	2.7	14
83	Active energy management strategies for active distribution system. *Journal of Modern Power Systems and Clean Energy*, **2015**, 3, 533-543	4	13
82	High-performance predictor for critical unstable generators based on scalable parallelized neural networks. *Journal of Modern Power Systems and Clean Energy*, **2016**, 4, 414-426	4	13
81	. *IEEE Transactions on Power Systems*, **2020**, 35, 4088-4099	7	10
80	Novel pair-wise relative energy function for transient stability analysis and real-time emergency control. *IET Generation, Transmission and Distribution*, **2017**, 11, 4565-4575	2.5	10
79	Non-parametric statistics-based predictor enabling online transient stability assessment. *IET Generation, Transmission and Distribution*, **2018**, 12, 5761-5769	2.5	10
78	Data-driven distributionally robust joint planning of distributed energy resources in active distribution network. *IET Generation, Transmission and Distribution*, **2020**, 14, 1653-1662	2.5	9
77	LSTM auto-encoder based representative scenario generation method for hybrid hydro-PV power system. *IET Generation, Transmission and Distribution*, **2020**, 14, 5935-5943	2.5	9
76	Electrical Vehicle Charging Services Planning and Operation with Interdependent Power Networks and Transportation Networks: A Review of the Current Scenario and Future Trends. *Energies*, **2020**, 13, 3371	3.1	9
75	Reactive power operability of distributed energy resources for voltage stability of distribution networks. *Journal of Modern Power Systems and Clean Energy*, **2019**, 7, 851-861	4	8
74	A sliding window-based dynamic load balancing for heterogeneous Hadoop clusters. *Concurrency Computation Practice and Experience*, **2017**, 29, e3763	1.4	7
73	A Personalized Fast-Charging Navigation Strategy Based on Mutual Effect of Dynamic Queuing. *IEEE Transactions on Industry Applications*, **2020**, 56, 5729-5740	4.3	7
72	A MapReduce-based parallel K-means clustering for large-scale CIM data verification. *Concurrency Computation Practice and Experience*, **2016**, 28, 3096-3114	1.4	7
71	Applying multiple types of demand response to optimal day-ahead stochastic scheduling in the distribution network. *IET Generation, Transmission and Distribution*, **2020**, 14, 4509-4519	2.5	7
70	Ensemble Learning for Power Systems TTC Prediction With Wind Farms. *IEEE Access*, **2019**, 7, 16572-16583	3.3	6
69	A MapReduce Based High Performance Neural Network in Enabling Fast Stability Assessment of Power Systems. *Mathematical Problems in Engineering*, **2017**, 2017, 1-12	1.1	6

68	Multi-stage sizing approach for development of utility-scale BESS considering dynamic growth of distributed photovoltaic connection. *Journal of Modern Power Systems and Clean Energy*, **2016**, 4, 554-565	4	6
67	. *IEEE Transactions on Power Systems*, **2020**, 35, 2959-2970	7	6
66	A Chance-constrained Optimization Model for Determining Renewables Penetration Limit in Power Systems. *Electric Power Components and Systems*, **2016**, 44, 701-712	1	6
65	Development of EV charging templates: an improved K-prototypes method. *IET Generation, Transmission and Distribution*, **2018**, 12, 4361-4367	2.5	6
64	Electric vehicle charging station planning based on weighted Voronoi diagram **2011**,		5
63	Two-stage optimal MPC for hybrid energy storage operation to enable smooth wind power integration. *IET Renewable Power Generation*, **2020**, 14, 2477-2486	2.9	5
62	Fog-Computing-Based Short-Circuit Diagnosis Scheme. *IEEE Transactions on Smart Grid*, **2020**, 11, 3359-3371	10.7	5
61	Investigation on Impacts of Alternative Generation Siting in Power Grids from the View of Complex Network Theory. *Electric Power Components and Systems*, **2016**, 44, 820-831	1	5
60	Deep Belief Network Enabled Surrogate Modeling for Fast Preventive Control of Power System Transient Stability. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	5
59	Coordinating voltage regulation for an AC/DC hybrid distribution network with multiple SSTs. *Journal of Engineering*, **2019**, 2019, 1368-1372	0.7	4
58	Integrated traffic-power simulation framework for electric vehicle charging stations based on cellular automaton. *Journal of Modern Power Systems and Clean Energy*, **2018**, 6, 816-820	4	4
57	Wind power interval forecasting based on adaptive decomposition and probabilistic regularised extreme learning machine. *IET Renewable Power Generation*, **2020**, 14, 3181-3191	2.9	4
56	Probabilistic Stacked Denoising Autoencoder for Power System Transient Stability Prediction With Wind Farms. *IEEE Transactions on Power Systems*, **2021**, 36, 3786-3789	7	4
55	Gain scheduling based backstepping control for motion balance adjusting of a power-line inspection robot **2016**,		4
54	An Improved ADMM-Based Distributed Optimal Operation Model of AC/DC Hybrid Distribution Network Considering Wind Power Uncertainties. *IEEE Systems Journal*, **2021**, 15, 2201-2211	4.3	4
53	DDPG-Based Multi-Agent Framework for SVC Tuning in Urban Power Grid With Renewable Energy Resources. *IEEE Transactions on Power Systems*, **2021**, 1-1	7	4
52	Analytic Deep Learning-Based Surrogate Model for Operational Planning With Dynamic TTC Constraints. *IEEE Transactions on Power Systems*, **2021**, 36, 3507-3519	7	4
51	Power Grid Reliability Evaluation Considering Wind Farm Cyber Security and Ramping Events. *Applied Sciences (Switzerland)*, **2019**, 9, 3003	2.6	3

50	A new method of enhancing reliability for transmission expansion planning. *Journal of Modern Power Systems and Clean Energy*, **2014**, 2, 341-349	4	3
49	A risk-evasion TOU pricing method for distribution utility in deregulated market environment		3
48	Risk awareness enabled sizing approach for hybrid energy storage system in distribution network. *IET Generation, Transmission and Distribution*, **2019**, 13, 3814-3822	2.5	3
47	Determining deep peak-regulation reserve for power system with high-share of renewable energy based on virtual energy storage **2019**,		3
46	Surrogate-assisted optimal re-dispatch control for risk-aware regulation of dynamic total transfer capability. *IET Generation, Transmission and Distribution*, **2021**, 15, 1949	2.5	3
45	Investment decision optimization for distribution network planning with correlation constraint. *International Transactions on Electrical Energy Systems*, **2020**, 30, e12323	2.2	2
44	A coordinated charging strategy for electric vehicle considering three-phase load unbalance **2017**,		2
43	An Economic Criterion for Distributed Renewable Generation Planning. *Electric Power Components and Systems*, **2017**, 45, 1298-1304	1	2
42	Big Data Management in Digital Forensics **2014**,		2
41	A new vulnerability evaluation model to electric power grid **2009**,		2
40	Optimal Prosumers Peer-to-Peer Energy Trading and Scheduling in Distribution Networks. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	2
39	Resilience Assessment of Hydrogen Integrated Energy System for Airport Electrification. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	2
38	Probabilistic Chronological Production Simulation-Based Coordinated Dispatching for Cascaded Hydro-PV-PSH Combined Power Generation System. *Mathematical Problems in Engineering*, **2020**, 2020, 1-14	1.1	2
37	Distributionally Robust Optimal DG Allocation Model Considering Flexible Adjustment of Demand Response **2019**,		2
36	Prioritized Replay Dueling DDQN Based Grid-Edge Control of Community Energy Storage System. *IEEE Transactions on Smart Grid*, **2021**, 1-1	10.7	2
35	Evaluating Connectable Capacity of Distributed Wind Generation in Distribution Networks Through a Bayesian Integrated Optimization Method. *IEEE Systems Journal*, **2021**, 1-11	4.3	2
34	Alleviating congestion of hybrid urban grid by VSC-control and AC-line switching. *Journal of Engineering*, **2019**, 2019, 1763-1766	0.7	1
33	Mitigating Downward Reserve Deficiency of Power System via Coordinating EV Demand Response at Valley Period. *IEEE Access*, **2020**, 8, 112368-112378	3.5	1

32	The power system risk assessment under rainfall weather and subsequent geological disasters **2016**,		1
31	Two-stage Control Strategy for Structure Optimization of Faulted Distribution System with Distributed Generation. *Electric Power Components and Systems*, **2014**, 42, 595-604	1	1
30	Network model of bilateral power markets based on complex networks. *International Journal of Modern Physics B*, **2014**, 28, 1450144	1.1	1
29	A novel congestion management method in high-voltage distribution network based on logic constrains of functional units **2015**,		1
28	Power system reliability evaluation considering substation interior under protection failure impact **2014**,		1
27	Researches on Electric Vehicles Access in Demonstration District Considering Network Losses **2012**,		1
26	A Research on Power System Adaptive Load Shedding Based on WAMS Assisted Prediction **2012**,		1
25	Notice of Retraction: The Classification Method of Price Response Sensitivity Based on Time Delay **2010**,		1
24	Notice of Retraction: A Matching Model of the Direct Power Transaction Based on the Bilateral Patterns **2010**,		1
23	Hybrid simulation of generation and transmission planning in market environment **2011**,		1
22	Line reconnection strategies considering dynamic processes during load restoration period **2009**,		1
21	Configure vulnerability assessment based on potential energy model **2009**,		1
20	Optimal Planning of Distribution Network Based on K-means Clustering **2020**,		1
19	Bi-level Collaborative Expansion Planning for Power Grid and Plants Considering Operational Flexibility **2020**,		1
18	Multi-area Peer-to-Peer Energy Trading **2020**,		1
17	An Explicit Formula Based Estimation Method for Distribution Network Reliability. *IEEE Transactions on Power Delivery*, **2020**, 35, 2109-2112	4.3	1
16	Hybrid Deep Learning for Dynamic Total Transfer Capability Control. *IEEE Transactions on Power Systems*, **2021**, 36, 2733-2736	7	1
15	Optimal Planning of AC/DC hybrid system with Renewable Generations: An Expansion Planning Modle **2019**,		1

14	Tight Mixed-Integer Linear Programming Formulation for Energy Storage Assets in NCUC Problem **2019**,		1
13	Optimal Investment Planning of Distribution Network Considering Customers Reliability Requirements **2019**,		1
12	A Hybrid Agent-based Model Predictive Control Scheme for Smart Community Energy System with Uncertain DGs and Loads. *Journal of Modern Power Systems and Clean Energy*, **2021**, 9, 573-584	4	1
11	Day-Ahead Scheduling of Combined Natural Gas and Electricity System with Mid-and Long-Term Electricity Contract Decomposition **2018**,		1
10	A Fast Screen and Shape Recognition Algorithm for Multiple Change-Point Detection. *Mathematical Problems in Engineering*, **2018**, 2018, 1-10	1.1	1
9	Short-circuit current constrained unit commitment and transmission switching model for improving renewable integration: An MILP formulation. *IET Generation, Transmission and Distribution*, **2022**, 16, 1743-1755	2.5	1
8	Learning-Aided Optimal Power Flow Based Fast Total Transfer Capability Calculation. *Energies*, **2022**, 15, 1320	3.1	1
7	Integrated Planning of Cyber-Physical Active Distribution System Considering Multi-Dimensional Uncertainties. *IEEE Transactions on Smart Grid*, **2022**, 1-1	10.7	1
6	A Power Exchange Strategy for Multiple Areas with Hydro Power and Flexible Loads. *Energies*, **2019**, 12, 1160	3.1	0
5	CVaR-based generation expansion planning of cascaded hydro-photovoltaic-pumped storage system with uncertain solar power considering flexibility constraints. *IET Generation, Transmission and Distribution*, **2021**, 15, 2953	2.5	0
4	An Improved Fuzzy Method for Characterizing Wind Power. *Journal of Modern Power Systems and Clean Energy*, **2021**, 9, 459-462	4	0
3	Planning of New Distribution Network Considering Green Power Certificate Trading and Carbon Emissions Trading. *Energies*, **2022**, 15, 2435	3.1	0
2	Time-segmented Multi-level Reconfiguration in Distribution Network: A Novel Cloud-edge Collaboration Framework. *IEEE Transactions on Smart Grid*, **2022**, 1-1	10.7	
1	Operational Reliability Assessment of Distribution Network With Energy Storage Systems. *IEEE Systems Journal*, **2022**, 1-11	4.3	