

# Jun Liu

## List of Publications by Year in descending order

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63  
papers

1,054  
citations

623574

14  
h-index

501076

28  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1062  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Photovoltaic Power Forecasting Model With the Assistance of Aerosol Index Data. IEEE Transactions on Sustainable Energy, 2015, 6, 434-442.	5.9	283
2	Distributionally Robust Chance-Constrained Approximate AC-OPF With Wasserstein Metric. IEEE Transactions on Power Systems, 2018, 33, 4924-4936.	4.6	176
3	Data-Driven Affinely Adjustable Distributionally Robust Unit Commitment. IEEE Transactions on Power Systems, 2018, 33, 1385-1398.	4.6	100
4	A Novel Smart High-Voltage Circuit Breaker for Smart Grid Applications. IEEE Transactions on Smart Grid, 2011, 2, 254-264.	6.2	55
5	Data-Driven Distributionally Robust Energy-Reserve-Storage Dispatch. IEEE Transactions on Industrial Informatics, 2018, 14, 2826-2836.	7.2	43
6	Distributionally Robust Optimal Reactive Power Dispatch with Wasserstein Distance in Active Distribution Network. Journal of Modern Power Systems and Clean Energy, 2020, 8, 426-436.	3.3	34
7	High-Precision Identification of Power Quality Disturbances Under Strong Noise Environment Based on FastICA and Random Forest. IEEE Transactions on Industrial Informatics, 2021, 17, 377-387.	7.2	32
8	Photovoltaic power forecasting based on artificial neural network and meteorological data. , 2013, , .		24
9	Variable Extinction Angle Control Strategy Based on Virtual Resistance to Mitigate Commutation Failures in HVDC System. IEEE Access, 2020, 8, 93692-93704.	2.6	24
10	Adaptive barrier filterâ€œsearch interior point method for optimal power flow with FACTS devices. IET Generation, Transmission and Distribution, 2015, 9, 2792-2798.	1.4	19
11	Moment-SOS Approach to Interval Power Flow. IEEE Transactions on Power Systems, 2017, 32, 522-530.	4.6	18
12	An Improved Power System Transient Stability Prediction Model Based on mRMR Feature Selection and WTA Ensemble Learning. Applied Sciences (Switzerland), 2020, 10, 2255.	1.3	18
13	An Ultrasonic Sensor System Based on a Two-Dimensional State Method for Highway Vehicle Violation Detection Applications. Sensors, 2015, 15, 9000-9021.	2.1	17
14	An Energy Saving System for a Beam Pumping Unit. Sensors, 2016, 16, 685.	2.1	16
15	Application of thyristor controlled phase shifting transformer excitation impedance switching control to suppress short-circuit fault current level. Journal of Modern Power Systems and Clean Energy, 2018, 6, 821-832.	3.3	16
16	A Parallel Probabilistic Load Flow Method Considering Nodal Correlations. Energies, 2016, 9, 1041.	1.6	13
17	Abnormality in power system transient stability control of BESS/STATCOM. Journal of Engineering, 2017, 2017, 1040-1044.	0.6	12
18	Modified Quasi-Steady State Model of DC System for Transient Stability Simulation under Asymmetric Faults. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Commutation Failure analysis in single- and multi-infeed HVDC systems. , 2016, , .		10
20	Research of an active and reactive power coordinated control method for photovoltaic inverters to improve power system transient stability. , 2016, , .		9
21	Modified capacitor voltage balancing sorting algorithm for modular multilevel converter. Journal of Engineering, 2019, 2019, 3315-3319.	0.6	9
22	Increasing wind power penetration level based on hybrid wind and Photovoltaic generation. , 2013, , .		8
23	Influence of solid oxide fuel cell on power system transient stability. Journal of Engineering, 2019, 2019, 1081-1086.	0.6	7
24	A criterion for accurate identification of commutation failure in HVDC systems. Electric Power Systems Research, 2020, 184, 106338.	2.1	7
25	GPU accelerated power flow calculation of integrated electricity and heat system with component-oriented modeling of district heating network. Applied Energy, 2022, 305, 117832.	5.1	7
26	Research of Photovoltaic Power Forecasting Based on Big Data and mRMR Feature Reduction. , 2018, , .		6
27	Simulation of wind power time series based on the MCMC method. , 2015, , .		5
28	Initialization of Full Electromagnetic Transient Simulation via a Novel Transition State Calculation. , 2017, , .		5
29	A combined AC-DC control strategy for commutation failure mitigation. , 2017, , .		5
30	Power system stochastic transient stability assessment based on Monte Carlo simulation. Journal of Engineering, 2019, 2019, 1051-1055.	0.6	5
31	Identification and Location of Voltage Sag Sources Based on Multi-Label Random Forest. , 2019, , .		5
32	Fault current limiting by phase shifting angle control of TCPST. , 2015, , .		4
33	Multi-period OPF with energy storages and renewable sources: A parallel moment approach. , 2016, , .		4
34	\$\mu\$-Synthesis Robust Control of Variable Speed Wind Turbine Generators for Participating in Microgrid Frequency Regulation. , 2020, , .		4
35	Data-Driven Risk Assessment Early-Warning Model for Power System Transmission Congestions. , 2022, , .		4
36	A Novel intelligent high voltage SF <sub>6</sub> circuit breaker. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
37	Impact of Electric Vehicles on Microgrids Considering Multiple Correlations. , 2018, , .		3
38	Optimal approach in the EMS of microgrids based on online forecasts. Journal of Engineering, 2019, 2019, 1645-1648.	0.6	3
39	Coordinated Restoration Model of Renewable Energy and Conventional Generator Units after Faults. , 2019, , .		3
40	Small-Signal Model and Stability Analysis of DC Microgrids with Master-Slave Control Strategy. , 2019, , .		3
41	Market Trading Model of Urban Energy Internet Based on Tripartite Game Theory. Energies, 2020, 13, 1834.	1.6	3
42	An Novel Power Flow Calculation Model with the Elimination of Interconnecting Nodes. , 0, , .		3
43	Study on inter-harmonics in short-circuit current of hybrid AC/DC electric power systems. , 2016, , .		2
44	A Conservative Prediction Model of Power System Transient Stability. , 2018, , .		2
45	Distributionally Robust Chance-Constraint Optimal Power Flow Considering Uncertain Renewables with Wasserstein-Moment Metric. Energy Procedia, 2019, 158, 192-197.	1.8	2
46	Transient stability analysis of one special type of AC microgrids with a gas reciprocating generator unit. Journal of Engineering, 2019, 2019, 1565-1570.	0.6	2
47	Path Recovery Model for Power Systems With Renewable Energy Based on An Improved Node Weighting Method. , 2020, , .		2
48	Suppression of numerical oscillations in power system electromagnetic transient simulation via 2S-DIRK method. , 2016, , .		1
49	Research of transformer modeling considering the influence of tap positions on original parameters. , 2016, , .		1
50	A novel load flow model for distribution systems based on current injections. , 2016, , .		1
51	Power transformer transient modeling considering the effects of on-load tap changer. , 2017, , .		1
52	Analysis on the accommodation of renewable energy in northeast China. IOP Conference Series: Earth and Environmental Science, 2017, 52, 012008.	0.2	1
53	The Measures Contribution Researches on Renewable Energy Accommodation Based on Production Simulation. E3S Web of Conferences, 2018, 38, 01022.	0.2	1
54	Study on Operation Strategy of System Connected to Large Scale Offshore Wind Power. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	Energy Flow Calculation Method of Combined Cooling, Heating and Power System with Terminal Cooling Network Model. , 2020, , .		1
56	Study on the statistical characteristics of solar power. IOP Conference Series: Earth and Environmental Science, 2017, 52, 012015.	0.2	0
57	A peaking-regulation-balance-based method for wind & PV power integrated accommodation. IOP Conference Series: Earth and Environmental Science, 2018, 121, 042034.	0.2	0
58	Analysis on adaptability of eastern and central China with wind power integration. IOP Conference Series: Earth and Environmental Science, 2019, 237, 062010.	0.2	0
59	Research on China's re-electrification technology recognition. AIP Conference Proceedings, 2019, , .	0.3	0
60	Application of improved SVM algorithm and variational mode decomposition in power quality disturbances recognition. , 2019, , .		0
61	Increasing the Wind Power Utilization of Hybrid AC/DC Systems Based on Optimal Active Power Control of HVDC. , 2020, , .		0
62	Incremental learning method for online transient stability assessment of power system based on KKT condition. , 2021, , .		0
63	Research on Power System Transient Security Prediction Based on AdaBoost-SVM. , 2021, , .		0