

# Xiaoyu Wang

## List of Publications by Year in descending order

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55  
papers

1,571  
citations

361413

20  
h-index

414414

32  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1809  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Communication Delays on Secondary Frequency Control in an Islanded Microgrid. IEEE Transactions on Industrial Electronics, 2015, 62, 2021-2031.	7.9	315
2	Aggregation Model-Based Optimization for Electric Vehicle Charging Strategy. IEEE Transactions on Smart Grid, 2013, 4, 1058-1066.	9.0	142
3	Distributed Load Sharing Under False Data Injection Attack in an Inverter-Based Microgrid. IEEE Transactions on Industrial Electronics, 2019, 66, 1543-1551.	7.9	131
4	Stochastic Stability Analysis and Control of Secondary Frequency Regulation for Islanded Microgrids Under Random Denial of Service Attacks. IEEE Transactions on Industrial Informatics, 2019, 15, 4066-4075.	11.3	100
5	Distributed Load Sharing of an Inverter-Based Microgrid With Reduced Communication. IEEE Transactions on Smart Grid, 2018, 9, 1354-1364.	9.0	96
6	Stochastic Small-Signal Stability Analysis of Grid-Connected Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 1027-1038.	7.9	85
7	Interfacing Power System and ICT Simulators: Challenges, State-of-the-Art, and Case Studies. IEEE Transactions on Smart Grid, 2018, 9, 14-24.	9.0	77
8	Impact of Positive-Feedback Anti-Islanding Methods on Small-Signal Stability of Inverter-Based Distributed Generation. IEEE Transactions on Energy Conversion, 2008, 23, 923-931.	5.2	53
9	Mathematical Expectation Modeling of Wide-Area Controlled Power Systems With Stochastic Time Delay. IEEE Transactions on Smart Grid, 2015, 6, 1511-1519.	9.0	45
10	Stability Analysis of Grid-Interfacing Inverter Control in Distribution Systems With Multiple Photovoltaic-Based Distributed Generators. IEEE Transactions on Industrial Electronics, 2016, 63, 7339-7348.	7.9	45
11	Full-Scale Distribution System Topology Identification Using Markov Random Field. IEEE Transactions on Smart Grid, 2020, 11, 4714-4726.	9.0	42
12	Impact of Voltage Sags on Electric-Vehicle Charger and Critical Voltage Sag Determination. IEEE Transactions on Power Delivery, 2016, 31, 1397-1399.	4.3	36
13	Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. IEEE Transactions on Smart Grid, 2020, 11, 391-402.	9.0	35
14	Solution techniques for transient stability-constrained optimal power flow Part I. IET Generation, Transmission and Distribution, 2017, 11, 3177-3185.	2.5	34
15	Solution techniques for transient stability-constrained optimal power flow Part II. IET Generation, Transmission and Distribution, 2017, 11, 3186-3193.	2.5	31
16	Intrusion-Detector-Dependent Frequency Regulation for Microgrids Under Denial-of-Service Attacks. IEEE Systems Journal, 2020, 14, 2593-2596.	4.6	28
17	An Analytical Method for Calculating Critical Voltage Sag Clearance Time of Induction Motors. IEEE Transactions on Power Delivery, 2012, 27, 2412-2414.	4.3	27
18	Effects of correlated photovoltaic power and load uncertainties on grid-connected microgrid day-ahead scheduling. IET Generation, Transmission and Distribution, 2017, 11, 3620-3627.	2.5	23

#	ARTICLE	IF	CITATIONS
19	Stability analysis and compensation of network-induced delays in communication-based power system control: A survey. ISA Transactions, 2017, 66, 143-153.	5.7	22
20	A Stochastic Stability Enhancement Method of Grid-Connected Distributed Energy Storage Systems. IEEE Transactions on Smart Grid, 2017, 8, 2062-2070.	9.0	21
21	Impact of Causality on Performance of Phasor Measurement Unit Algorithms. IEEE Transactions on Power Systems, 2018, 33, 1555-1565.	6.5	17
22	Toward Balancing Dynamic Performance and System Stability for DC Microgrids: A New Decentralized Adaptive Control Strategy. IEEE Transactions on Smart Grid, 2022, 13, 3439-3451.	9.0	15
23	Effects of cyber attacks on islanded microgrid frequency control. , 2016, , .		14
24	Constraint models of voltage fluctuation limit on OLTC/SVR caused by DG power fluctuation and generator disconnection to assess their impacts on DG penetration limit. IET Generation, Transmission and Distribution, 2017, 11, 4299-4306.	2.5	12
25	Investigation on the system grounding types for low voltage direct current systems. , 2013, , .		11
26	Impact of grid and load disturbances on electric vehicle battery in G2V/V2G and V2H mode. , 2015, , .		11
27	Low-Voltage Distribution Grid Topology Identification With Latent Tree Model. IEEE Transactions on Smart Grid, 2022, 13, 2158-2169.	9.0	11
28	Distributed Cooperative Economic Optimization Strategy of a Regional Energy Network Based on Energy Cellâ€Tissue Architecture. IEEE Transactions on Industrial Informatics, 2019, 15, 5182-5193.	11.3	9
29	Impact assessment of electric vehicle charging on hydro Ottawa distribution networks at neighborhood levels. , 2015, , .		8
30	Impact of phase-locked loop on stability of active damped LCL-filter-based grid-connected inverters with capacitor voltage feedback. Journal of Modern Power Systems and Clean Energy, 2017, 5, 574-583.	5.4	8
31	Adaptive nonâ€linear neural control of wideâ€area power systems. IET Generation, Transmission and Distribution, 2017, 11, 4531-4536.	2.5	8
32	Threeâ€stage SiCâ€based biâ€directional onâ€board battery charger with titanium level efficiency. IET Power Electronics, 2020, 13, 1477-1480.	2.1	8
33	New single-stage EV charger for V2H applications. , 2016, , .		6
34	Online clustering modeling of large-scale photovoltaic power plants. , 2015, , .		5
35	A stability enhancement method for inverter-based distributed generation systems. , 2015, , .		5
36	A novel boost four-leg converter for electric vehicle applications. Chinese Journal of Electrical Engineering, 2017, 3, 79-83.	3.4	5

#	ARTICLE	IF	CITATIONS
37	A novel real-time load modeling method for fast large-disturbance and short-term voltage stability analysis. <i>International Transactions on Electrical Energy Systems</i> , 2013, 23, 1373-1395.	1.9	4
38	Induction motor interactions after voltage sags. , 2013, , .		4
39	H $\infty$ control of networked control systems with stochastic measurement losses. , 2016, , .		3
40	Investigation of Frequency Oscillation Caused False Trips for Biomass Distributed Generation. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 6092-6101.	9.0	3
41	Distribution Network Hierarchically Partitioned Optimization Considering Electric Vehicle Orderly Charging with Isolated Bidirectional DC-DC Converter Optimal Efficiency Model. <i>Energies</i> , 2021, 14, 1614.	3.1	3
42	The dynamic characteristics of photovoltaic generation system under partially shaded conditions. , 2013, , .		2
43	Parameter identification of doubly-fed induction generator by the Levenberg-Marquardt-Fletcher method. , 2013, , .		2
44	Practical power distance test tool based on OPF to assess feeder DG hosting capacity. , 2017, , .		2
45	A Hybrid CNN/Poisson Fusion Based Power Transformer External Defect Detecting Method. , 2020, , .		2
46	Fault Diagnosis of Photovoltaic Array Based on XGBoost Method. , 2021, , .		2
47	A new criterion for GCB open-phase protection in large pumped storage units. , 2015, , .		1
48	Realization of Large-Signal Stabilization for DC Microgrids via a Novel Decentralized Composite Control Approach. , 2019, , .		1
49	A Novel Adaptive Stabilization Strategy for Autonomous DC Microgrids. , 2020, , .		1
50	Multi-scene security constrained economic dispatch with rational wind power curtailment in micro-grid. , 2014, , .		0
51	Propagation of electrical disturbances to automotive batteries in vehicle-to-grid context. , 2016, , .		0
52	Design and analysis of HVDC low frequency oscillation damping controller. , 2016, , .		0
53	Analysis of Frequency Control in Microgrids with Multiple Phasor Measurement Unit Delays. , 2019, , .		0
54	Extended Modulus Optimum Method for Off-Grid Inverter's Voltage Control System. , 2019, , .		0

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55	Investigation of Frequency Oscillation Caused False Trips for Biomass Distributed Generation. , 2020, ,		0