

Xiaozhe Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3299180/publications.pdf>

Version: 2024-02-01

44
papers

578
citations

623734

14
h-index

677142

22
g-index

44
all docs

44
docs citations

44
times ranked

431
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Stability Analysis of Power Systems With Wind Power Based on Stochastic Differential Equations: Model Development and Foundations. IEEE Transactions on Sustainable Energy, 2015, 6, 1534-1542.	8.8	50
2	PMU-Based Estimation of Dynamic State Jacobian Matrix and Dynamic System State Matrix in Ambient Conditions. IEEE Transactions on Power Systems, 2018, 33, 681-690.	6.5	49
3	Data-Driven Diagnostics of Mechanism and Source of Sustained Oscillations. IEEE Transactions on Power Systems, 2016, 31, 4036-4046.	6.5	42
4	Probabilistic Power Flow Calculation Using Non-Intrusive Low-Rank Approximation Method. IEEE Transactions on Power Systems, 2019, 34, 3014-3025.	6.5	41
5	Online PMU-Based Wide-Area Damping Control for Multiple Inter-Area Modes. IEEE Transactions on Smart Grid, 2020, 11, 5451-5461.	9.0	35
6	Applying Polynomial Chaos Expansion to Assess Probabilistic Available Delivery Capability for Distribution Networks With Renewables. IEEE Transactions on Power Systems, 2018, 33, 6726-6735.	6.5	32
7	Wide-Area Damping Control for Interarea Oscillations in Power Grids Based on PMU Measurements. , 2018, 2, 719-724.		29
8	Analytical Studies of Quasi Steady-State Model in Power System Long-Term Stability Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 943-956.	5.4	25
9	A Data-Driven Sparse Polynomial Chaos Expansion Method to Assess Probabilistic Total Transfer Capability for Power Systems With Renewables. IEEE Transactions on Power Systems, 2021, 36, 2573-2583.	6.5	23
10	Estimation of Inertia for Synchronous and Non-Synchronous Generators Based on Ambient Measurements. IEEE Transactions on Power Systems, 2022, 37, 3747-3757.	6.5	20
11	Markov Game for Securing Wide-Area Damping Control Against False Data Injection Attacks. IEEE Systems Journal, 2021, 15, 1356-1365.	4.6	17
12	A Framework for Dynamic Stability Analysis of Power Systems With Volatile Wind Power. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 422-431.	3.6	16
13	Analytical Study of the Impacts of Stochastic Load Fluctuation on the Dynamic Voltage Stability Margin Using Bifurcation Theory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1286-1295.	5.4	16
14	WAMS-Based Model-Free Wide-Area Damping Control by Voltage Source Converters. IEEE Transactions on Power Systems, 2021, 36, 1317-1327.	6.5	16
15	Targeted False Data Injection Attacks Against AC State Estimation Without Network Parameters. IEEE Transactions on Smart Grid, 2021, 12, 5349-5361.	9.0	16
16	Estimating dynamic load parameters from ambient PMU measurements. , 2017, , .		15
17	Online Measurement-Based Estimation of Dynamic System State Matrix in Ambient Conditions. IEEE Transactions on Smart Grid, 2020, 11, 95-105.	9.0	12
18	Sample Robust Scheduling of Electricity-Gas Systems Under Wind Power Uncertainty. IEEE Transactions on Power Systems, 2021, 36, 5889-5900.	6.5	12

#	ARTICLE	IF	CITATIONS
19	Numerical investigations on quasi steady-state model for voltage stability. International Transactions on Electrical Energy Systems, 2014, 24, 1586-1599.	1.9	11
20	A Data-Driven Uncertainty Quantification Method for Stochastic Economic Dispatch. IEEE Transactions on Power Systems, 2022, 37, 812-815.	6.5	10
21	A model-free sparse wide-area damping controller for inter-area oscillations. International Journal of Electrical Power and Energy Systems, 2022, 136, 107609.	5.5	9
22	Online purely data-driven estimation of inertia and center-of-inertia frequency for power systems with VSC-interfaced energy sources. International Journal of Electrical Power and Energy Systems, 2022, 137, 107643.	5.5	9
23	An Approach to Constructing Analytical Energy Function for Synchronous Generator Models With Subtransient Dynamics. IEEE Transactions on Power Systems, 2018, 33, 5958-5967.	6.5	8
24	Quasi steady-state model for power system stability: Limitations, analysis and a remedy. , 2014, , .		7
25	An Online Network Model-Free Wide-Area Voltage Control Method Using PMUs. IEEE Transactions on Power Systems, 2021, 36, 4672-4682.	6.5	7
26	PMU-based estimation of dynamic state Jacobian matrix. , 2017, , .		6
27	An Online Data-Driven Method to Locate Forced Oscillation Sources From Power Plants Based on Sparse Identification of Nonlinear Dynamics (SINDy). IEEE Transactions on Power Systems, 2023, 38, 2085-2099.	6.5	6
28	An Online Data-Driven Method for Microgrid Secondary Voltage and Frequency Control With Ensemble Koopman Modeling. IEEE Transactions on Smart Grid, 2023, 14, 68-81.	9.0	6
29	The Effect of the Uncertainty of Load and Renewable Generation on the Dynamic Voltage Stability Margin. , 2019, , .		5
30	Some issues with Quasi-Steady State model in long-term stability. , 2013, , .		4
31	Estimating Participation Factors and Mode Shapes for Electromechanical Oscillations in Ambient Conditions. , 2018, , .		4
32	Online Model-Free Estimation of the Dynamic System Model for a Power System With Renewables in Ambient Conditions. IEEE Access, 2020, 8, 96878-96887.	4.2	4
33	Incomplete Information Stochastic Game Theoretic Vulnerability Management for Wide-Area Damping Control Against Cyber Attacks. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 124-134.	3.6	4
34	Application of pseudo-transient continuation method in dynamic stability analysis. , 2014, , .		3
35	A Hybrid Quasi Steady-State Model for Long-Term Stability Analysis of Electric Power Networks: Model Development and Theoretical Basis. IEEE Transactions on Control of Network Systems, 2017, 4, 533-543.	3.7	2
36	Probabilistic available delivery capability assessment of general distribution network with renewables. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
37	Synchrophasor-Based State Estimation for Voltage Stability Monitoring in Power Systems. , 2018, , .		2
38	An Effective Average Value Model for Modular Multilevel Converters under Startup Process. , 2019, , .		1
39	Study on harmonic interaction between paralleled STATCOMs with cascaded Hâ€bridge topology in wind farm clusters. IET Renewable Power Generation, 2021, 15, 2515-2525.	3.1	1
40	Local blackout and global power system wide blackout are caused by nonâ€linear negative damping. IET Generation, Transmission and Distribution, 2020, 14, 6726-6731.	2.5	1
41	Towards detection and control of Hopf bifurcation in electric power system. , 2016, , .		0
42	Measurement-Based Estimation of System State Matrix for AC Power Systems with Integrated VSCs. , 2020, , .		0
43	Targeted False Data Injection Attack against DC State Estimation without Line Parameters. , 2021, , .		0
44	A Data-Driven Energy Storage System-Based Algorithm for Monitoring the Small-Signal Stability of Power Grids with Volatile Wind Power. , 2021, , .		0