Chen Shen

List of Publications by Year
in descending order

82 papers	1,447 citations	394421 19 h-index	345221 36 g-index
82 all docs	82 docs citations	82 times ranked	1408 citing authors

#	Article	IF	Citations
1	Overvoltage mechanism and suppression method for LCC-HVDC rectifier station caused by sending end AC faults. IEEE Transactions on Power Delivery, 2024, , 1-4.	4.3	7
2	Optimal Configuration of Hybrid AC/DC Distribution Network Considering the Temporal Power Flow Complementarity on Lines. IEEE Transactions on Smart Grid, 2022, 13, 3857-3866.	9.0	17
3	Phase-domain model of twelve-phase synchronous machine for EMTP-type simulation. International Journal of Electrical Power and Energy Systems, 2022, 143, 108459.	5.5	0
4	Privacy-preserving distributed parameter estimation for probability distribution of wind power forecast error. Renewable Energy, 2021, 163, 1318-1332.	8.9	5
5	Privacy-Preserving Distributed Clustering for Electrical Load Profiling. IEEE Transactions on Smart Grid, 2021, 12, 1429-1444.	9.0	14
6	Privacy-Preserving Distributed Probabilistic Load Flow. IEEE Transactions on Power Systems, 2021, 36, 1616-1627.	6.5	7
7	Optimal Emergency Frequency Control Based on Coordinated Droop in Multi-Infeed Hybrid AC-DC System. IEEE Transactions on Power Systems, 2021, 36, 3305-3316.	6.5	24
8	Iterative Decomposition of Joint Chance Constraints in OPF. IEEE Transactions on Power Systems, 2021, 36, 4836-4839.	6.5	9
9	Distributed Optimal Dispatch for Power System Considering Privacy Preservation and Transient Stability Constraint. , 2021, , .		0
10	Multilevel Power-Imbalance Allocation Control for Secondary Frequency Control of Power Systems. IEEE Transactions on Automatic Control, 2020, 65, 2913-2928.	5.7	7
11	Distributed Stability Conditions for Power Systems With Heterogeneous Nonlinear Bus Dynamics. IEEE Transactions on Power Systems, 2020, 35, 2313-2324.	6.5	23
12	Asynchronous Distributed Power Control of Multimicrogrid Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 1960-1973.	3.7	15
13	A distributed incremental update scheme for probability distribution of wind power forecast error. International Journal of Electrical Power and Energy Systems, 2020, 121, 106151.	5.5	5
14	CloudPSS: A high-performance power system simulator based on cloud computing. Energy Reports, 2020, 6, 1611-1618.	5.1	47
15	Large-signal model of pulsed power load for analysis of dynamic voltage and frequency. IET Generation, Transmission and Distribution, 2020, 14, 2271-2281.	2.5	4
16	Region-Based Stability Analysis for Active Dampers in AC Microgrids. IEEE Transactions on Industry Applications, 2019, 55, 7671-7682.	4.9	14
17	Method for detecting harmonic responsibility misjudgements based on waveform correlation analysis. IET Generation, Transmission and Distribution, 2019, 13, 1545-1554.	2.5	10
18	A Distributed Probabilistic Modeling Algorithm for the Aggregated Power Forecast Error of Multiple Newly Built Wind Farms. IEEE Transactions on Sustainable Energy, 2019, 10, 1857-1866.	8.8	10

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19	LVRT Test data analysis of converter‐interfaced wind turbines. Journal of Engineering, 2019, 2019, 1550-1553.	1.1	4
20	A Fast and Stable Algorithm for Switching Treatment During EMTP-type Simulations. , 2019, , .		2
21	Harmonic emission level assessment method based on parameter identification analysis. IET Generation, Transmission and Distribution, 2019, 13, 976-983.	2.5	12
22	Toward Distributed Stability Analytics for Power Systems with Heterogeneous Bus Dynamics. , 2019, , .		3
23	Delay-Dependent Small-Signal Stability Analysis and Compensation Method for Distributed Secondary Control of Microgrids. IEEE Access, 2019, 7, 170919-170935.	4.2	20
24	Scenario-based analysis and probability assessment of sub-synchronous oscillation caused by wind farms with direct-driven wind generators. Journal of Modern Power Systems and Clean Energy, 2019, 7, 243-253.	5.4	13
25	Evaluation Method for Equivalent Models of PMSG-Based Wind Farms Considering Randomness. IEEE Transactions on Sustainable Energy, 2019, 10, 1565-1574.	8.8	21
26	Fast Screening of Vulnerable Transmission Lines in Power Grids: A PageRank-Based Approach. IEEE Transactions on Smart Grid, 2019, 10, 1982-1991.	9.0	59
27	Risk-Limiting Load Restoration for Resilience Enhancement With Intermittent Energy Resources. IEEE Transactions on Smart Grid, 2019, 10, 2507-2522.	9.0	94
28	Emergency DC Power Support Strategy Based on Coordinated Droop Control in Multi-Infeed HVDC System. , 2019, , .		0
29	A conditional model of wind power forecast errors and its application in scenario generation. Applied Energy, 2018, 212, 771-785.	10.1	69
30	Decomposed input-output stability analysis and enhancement of integrated power systems. Science China Technological Sciences, 2018, 61, 427-437.	4.0	5
31	Optimal Operation Planning for Orchestrating Multiple Pulsed Loads With Transient Stability Constraints in Isolated Power Systems. IEEE Access, 2018, 6, 18685-18693.	4.2	11
32	An Adjustable Chance-Constrained Approach for Flexible Ramping Capacity Allocation. IEEE Transactions on Sustainable Energy, 2018, 9, 1798-1811.	8.8	27
33	A Distributed, Cooperative Frequency and Voltage Control for Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2764-2776.	9.0	152
34	Towards the Robust Small-Signal Stability Region of Power Systems Under Perturbations Such as Uncertain and Volatile Wind Generation. IEEE Transactions on Power Systems, 2018, 33, 1790-1799.	6.5	33
35	Coordinated voltage regulation of hybrid AC/DC medium voltage distribution networks. Journal of Modern Power Systems and Clean Energy, 2018, 6, 463-472.	5.4	14
36	Coordinated Design of Droop Control in MTDC Grid Based on Model Predictive Control. IEEE Transactions on Power Systems, 2018, 33, 2816-2828.	6.5	48

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37	Modeling and Simulation of Hybrid AC-DC System on a Cloud Computing Based Simulation Platform - CloudPSS. , 2018, , .		17
38	Optimal configuration of hybrid AC/DC urban distribution networks for high penetration renewable energy. IET Generation, Transmission and Distribution, 2018, 12, 4499-4506.	2.5	16
39	Distributed optimal operation of hierarchically controlled microgrids. IET Generation, Transmission and Distribution, 2018, 12, 4142-4152.	2.5	19
40	Evaluation of commutation failure risk in single- or multi-infeed LCC-HVDC systems based on equivalent-fault method. Science China Technological Sciences, 2018, 61, 1207-1216.	4.0	4
41	Feasible Range and Optimal Value of the Virtual Impedance for Droop-Based Control of Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 1242-1251.	9.0	112
42	Distributed Optimal Control for Stability Enhancement of Microgrids With Multiple Distributed Generators. IEEE Transactions on Power Systems, 2017, 32, 4045-4059.	6.5	45
43	Chance-Constrained Economic Dispatch With Non-Gaussian Correlated Wind Power Uncertainty. IEEE Transactions on Power Systems, 2017, 32, 4880-4893.	6.5	102
44	Speed recovery strategy for the inertia response control of DFIGs: extended state observer based approach. IET Renewable Power Generation, 2017, 11, 1110-1120.	3.1	6
45	Analytical Expressions for Joint Distributions in Probabilistic Load Flow. IEEE Transactions on Power Systems, 2017, 32, 2473-2474.	6.5	33
46	Speeding up simulations of cascading blackout in power systems by identifying high influential lines. , 2017, , .		1
47	Releasing more capacity for EV integration by DC medium voltage distribution lines. IET Power Electronics, 2017, 10, 2116-2123.	2.1	7
48	Outlier issues in harmonic source location based on parameter identification method. , 2016, , .		0
49	Probabilistic analysis for low voltage ride through test data of doubly fed induction generators in China. , 2016, , .		0
50	Measurement-based solution for low frequency oscillation analysis. Journal of Modern Power Systems and Clean Energy, 2016, 4, 406-413.	5.4	6
51	Admissible Region of Large-Scale Uncertain Wind Generation Considering Small-Signal Stability of Power Systems. IEEE Transactions on Sustainable Energy, 2016, 7, 1611-1623.	8.8	23
52	Transformed periodic orbit mechanism of low frequency oscillations in power systems. International Journal of Circuit Theory and Applications, 2016, 44, 226-239.	2.0	6
53	A game-theoretic method for prediction of microgrid growing trends in China. Science China Technological Sciences, 2015, 58, 1760-1766.	4.0	5
54	Robust small-signal stability region of power systems considering uncertain wind generation. , 2015, , .		6

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55	A novel hybrid dynamic simulation algorithm based on iterative coordination. , 2014, , .		1
56	Impact of DFIG with phase lock loop dynamics on power systems small signal stability. , 2014, , .		13
57	Small signal security region of droop coefficients in autonomous microgrids. , 2014, , .		5
58	Dynamic simulation based on Jacobian-free Newton-GMRES methods with adaptive preconditioner for power systems. Science China Technological Sciences, 2013, 56, 2037-2045.	4.0	5
59	Impact of DFIG wind power on power system small signal stability. , 2013, , .		6
60	Feasibility Study on Online DSA Through Distributed Time Domain Simulations in WAN. IEEE Transactions on Power Systems, 2012, 27, 1214-1224.	6.5	17
61	A feasibility study of using IEEE 1547 series of standards in China for microgrid. , 2012, , .		2
62	Flexible power-flow algorithm for distribution power system with DER. , 2012, , .		2
63	Robust PSS design considering power system contingencies based on a recursive PSO. , 2010, , .		0
64	Distributed Transient Stability Simulation of Power Systems Based on a Jacobian-Free Newton-GMRES Method. IEEE Transactions on Power Systems, 2009, 24, 146-156.	6.5	31
65	A new under-frequency load shedding scheme based on OBDD. , 2009, , .		1
66	Distributed OPF of Larges Scale Interaction Power Systems. , 2008, , .		3
67	Distributed Rayleigh Quotient Iterative Method for Eigen-analysis of Power Systems. , 2008, , .		1
68	A method of distributed state estimation based on improved innovation graph. , 2008, , .		2
69	Dynamic extending nonlinear $H\hat{}\check{z}$ control and its application to hydraulic turbine governor. Science in China Series D: Earth Sciences, 2007, 50, 618-635.	0.9	12
70	A distributed inverse iteration method for eigenvalue analysis of interconnected power systems. Science in China Series D: Earth Sciences, 2007, 50, 774-785.	0.9	1
71	The Integrated Simulation Platform for Islanding Control of Large-Scale Power Systems: Theory, Implementation and Test Results. , 2006, , .		4
72	An Efficient Method of Network Simplification for Islanding Control Studies of Power Systems. , 2006, , .		2

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73	Grid-Service Based Distributed Power Flow Calculation. , 2006, , .		3
74	Stability-Constrained Optimal Power Flow Based on a Novel Transient Stability Margin. , 2006, , .		2
75	A Jacobian-Free Newton-GMRES(m) Method with Adaptive Preconditioner and Its Application for Power Flow Calculations. IEEE Transactions on Power Systems, 2006, 21, 1096-1103.	6.5	98
76	A new transient stability index of power systems based on theory of stability region and its applications. , 2006, , .		7
77	Analysis of Transient Voltage Stability via Quadratic Approximation Method. , 2006, , .		4
78	A Distributed-computing-based Eigenvalue Algorithm for Stability Analysis of Large-scale Power Systems. , 2006, , .		3
79	Feedforward-Feedback Current Tracking Control with Input Saturation for APF in 3-phase, 4-wire systems. , 2006, , .		1
80	The intelligent optimal sieving method for control of FACTS devices in multi-machine systems. , 0, , .		0
81	Equilibrium points in power and reserve auction games. , 0, , .		2
82	Φ grid: grid computing infrastructure for power systems. , 0, , .		6