

Boming Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

2,824
citations

30
h-index

51
g-index

137
ext. papers

3,699
ext. citations

5.1
avg, IF

5.61
L-index

#	Paper	IF	Citations
111	A Reliability-Constrained Expansion Planning Model for Mesh Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 948-960	7	13
110	Hexagon raster-based method for distribution network planning considering line routes and pole locations. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1420-1429	2.5	3
109	Feeder-corridor-based distribution network planning model with explicit reliability constraints. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 5310-5318	2.5	8
108	Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1457-1467	7	34
107	Robust Voltage Control Strategy for Hybrid AC/DC Sending-Side Systems to Prevent Cascading Trip Failures. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1319-1329	8.2	7
106	A two-level hierarchical discrete-device control method for power networks with integrated wind farms. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 88-98	4	3
105	Abductive identification of bad data: methodology and field test. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 150-159	2.5	2
104	Dynamic reactive power reserve optimisation in wind power integration areas. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 507-517	2.5	11
103	Information Masking Theory for Data Protection in Future Cloud-Based Energy Management. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5664-5676	10.7	14
102	An Improved Real-Time Short-Term Voltage Stability Monitoring Method Based on Phase Rectification. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1068-1070	7	13
101	A Distributed Multi-Control-Center Dynamic Power Flow Algorithm Based on Asynchronous Iteration Scheme. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1716-1724	7	14
100	Robust Capacity Assessment of Distributed Generation in Unbalanced Distribution Networks Incorporating ANM Techniques. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 651-663	8.2	38
99	Capacity guaranteed control method for air conditioning cluster joining power grid frequency regulation. <i>Journal of Engineering</i> , 2018 , 2018, 1884-1888	0.7	4
98	Kullback-Leibler divergence-based distributionally robust optimisation model for heat pump day-ahead operational schedule to improve PV integration. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 3136-3144	2.5	15
97	Distributed optimal residential demand response considering operational constraints of unbalanced distribution networks. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 1970-1979	2.5	26
96	Distributed Robust Bilinear State Estimation for Power Systems with Nonlinear Measurements. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 499-509	7	46
95	Hierarchical Multi-Area State Estimation via Sensitivity Function Exchanges. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 442-453	7	27

94	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 354-367	7	31
93	Coordinated Multi-Area Economic Dispatch via Critical Region Projection. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3736-3746	7	33
92	Robust reactive power optimisation and voltage control method for active distribution networks via dual time-scale coordination. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 1461-1471	2.5	40
91	Data-Driven DG Capacity Assessment Method for Active Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3946-3957	7	44
90	Discussion of positive fraction vector fitting for frequency-dependent network equivalents. <i>Journal of Engineering</i> , 2017 , 2017, 812-815	0.7	
89	Voltage security regions considering wind power curtailment to prevent cascading trip faults in wind power integration areas. <i>IET Renewable Power Generation</i> , 2017 , 11, 54-62	2.9	6
88	An Exact Linearization Method for OLTC of Transformer in Branch Flow Model. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2475-2476	7	52
87	Applying blockchain technology to decentralized operation in future energy internet 2017 ,		25
86	Coordinated state-estimation method for air-conditioning loads to provide primary frequency regulation service. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 3381-3388	2.5	10
85	Dynamic reactive power optimal allocation to decrease wind power curtailment in a large-scale wind power integration area. <i>IET Renewable Power Generation</i> , 2017 , 11, 1667-1678	2.9	16
84	Optimal residential demand response considering the operational constraints of unbalanced distribution networks 2017 ,		4
83	Study on the dynamic reactive power characteristics of MMC-MTDC for wind farm integration. <i>Journal of Engineering</i> , 2017 , 2017, 691-695	0.7	0
82	Robust optimal shunt dispatch method in wind farm integration area. <i>Journal of Engineering</i> , 2017 , 2017, 1829-1832	0.7	0
81	Cooperative game-based method to determine the weights of load forecasting solution incorporated with various algorithms. <i>Journal of Engineering</i> , 2017 , 2017, 1312-1315	0.7	1
80	Energy and ancillary service joint dispatch of power system integrated with dynamic heating system 2017 ,		1
79	Distributed newton method for primary voltage control in Islanded DC microgrid 2017 ,		2
78	Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2701-2713	7	47
77	Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 12-22	8.2	363

76	A Method to Evaluate Total Supply Capability of Distribution Systems Considering Network Reconfiguration and Daily Load Curves. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2096-2104	7	45
75	A robust approach for active distribution network restoration based on scenario techniques considering load and DG uncertainties 2016 ,		1
74	A robust bilinear three-phase state estimation method for power systems 2016 ,		2
73	Robust generation maintenance scheduling considering wind power and forced outages. <i>IET Renewable Power Generation</i> , 2016 , 10, 634-641	2.9	27
72	Decentralized Multi-Area Dynamic Economic Dispatch Using Modified Generalized Benders Decomposition. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 526-538	7	71
71	A Mixed Integer Quadratic Programming Model for Topology Identification in Distribution Network. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 823-824	7	43
70	Robust Restoration Method for Active Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4005-4015	7	106
69	Multivariate statistical analysis-based power-grid-partitioning method. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1023-1031	2.5	9
68	A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1060-1070	8.2	3
67	A Semidefinite Programming Model for Passivity Enforcement of Frequency-Dependent Network Equivalents. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 397-399	4.3	5
66	Transmission-Constrained Unit Commitment Considering Combined Electricity and District Heating Networks. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 480-492	8.2	227
65	Autonomous Voltage Security Regions to Prevent Cascading Trip Faults in Wind Turbine Generators. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1306-1316	8.2	15
64	Mixed-integer second-order cone programming model for VAR optimisation and network reconfiguration in active distribution networks. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1938-1946	2.5	59
63	A Two-Level Distributed Approach to Power Network Modeling. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1496-1504	4.3	4
62	Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 583-594	8.2	49
61	Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 1377-1388	8.2	85
60	Cyber-Physical Modeling and Cyber-Contingency Assessment of Hierarchical Control Systems. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2375-2385	10.7	94
59	Robust Look-Ahead Power Dispatch With Adjustable Conservativeness Accommodating Significant Wind Power Integration. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 781-790	8.2	21

58	Multi-time interval power system state estimation incorporating phasor measurements 2015 ,		8
57	Fully distributed multi-area economic dispatch method for active distribution networks. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 1341-1351	2.5	55
56	A fully distributed active power control method with minimum generation cost in grid-connected microgrids 2015 ,		4
55	. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1392-1400	4.3	54
54	Compacting and partitioning-based simulation solution for frequency-dependent network equivalents in real-time digital simulator. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 2526-2533	2.5	2
53	Adjustable Robust Real-Time Power Dispatch With Large-Scale Wind Power Integration. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 357-368	8.2	121
52	A Robust Wind Power Optimization Method for Look-Ahead Power Dispatch. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 507-515	8.2	94
51	Continuation power flow based on a novel local geometric parameterisation approach. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 811-818	2.5	4
50	Security evaluation for distribution power system using improved MIQCP based restoration strategy 2014 ,		2
49	Loop-analysis-based continuation power flow algorithm for distribution networks. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 1284-1292	2.5	24
48	Rapid-Charging Navigation of Electric Vehicles Based on Real-Time Power Systems and Traffic Data. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 1969-1979	10.7	99
47	A Static Voltage Security Region for Centralized Wind Power Integration Part II: Applications. <i>Energies</i> , 2014 , 7, 444-461	3.1	12
46	A Static Voltage Security Region for Centralized Wind Power Integration Part I: Concept and Method. <i>Energies</i> , 2014 , 7, 420-443	3.1	9
45	A Fast Solution for the Lagrange Multiplier-Based Electric Power Network Parameter Error Identification Model. <i>Energies</i> , 2014 , 7, 1288-1299	3.1	5
44	Parameter identifiability analysis of power system transient models based on profile likelihood 2014 ,		1
43	Supplemental control for enhancing primary frequency response of DFIG-based wind farm considering security of wind turbines 2014 ,		4
42	Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4516-4527	7	67
41	An Efficient State Estimation Algorithm Considering Zero Injection Constraints. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 2651-2659	7	13

40	Optimal Voltage Control of PJM Smart Transmission Grid: Study, Implementation, and Evaluation. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1665-1674	10.7	27
39	Analog-Digital Power System State Estimation Based on Information Theory Part I: Theory. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1640-1646	10.7	13
38	Development of an RTDS-TSA hybrid transient simulation platform with frequency dependent network equivalents 2013 ,		1
37	Development and Analysis of Applicability of a Hybrid Transient Simulation Platform Combining TSA and EMT Elements. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 357-366	7	59
36	A Spinning Reserve Allocation Method for Power Generation Dispatch Accommodating Large-Scale Wind Power Integration. <i>Energies</i> , 2013 , 6, 5357-5381	3.1	10
35	A hybrid simulation method for EVsVoperation considering power grid and traffic information 2013 ,		1
34	Real-time local voltage stability monitoring based on PMU and recursive least square method with variable forgetting factors 2012 ,		1
33	A sensitivity based simplified model for security constrained optimal power flow 2012 ,		1
32	Distributed Automatic Voltage Control framework for large-scale wind integration in China 2012 ,		1
31	Family of energy management system for smart grid 2012 ,		6
30	Multiple time-scale coordinated power control system to accommodate significant wind power penetration and its real application 2012 ,		4
29	An online intelligent alarm-processing system based on abductive reasoning network 2012 ,		1
28	An Improved Approach for AC-DC Power Flow Calculation With Multi-Infeed DC Systems. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 862-869	7	58
27	Study on wind-EV complementation in transmission grid side 2011 ,		30
26	A decoupled interface method for electromagnetic and electromechanical simulation 2011 ,		3
25	Substation three-phase nonlinear state estimation based on KCL 2011 ,		5
24	Research on architecture of ITS based Smart Charging Guide System 2011 ,		8
23	An efficient security assessment system based on PC cluster for power system daily operation planning validation 2010 ,		1

22	Study of system-wide Automatic Voltage Control on PJM system 2010,		1
21	Generator random outage model for risk-based monthly maintenance scheduling 2010,		2
20	PGFB: A hybrid feature selection method based on mutual information 2010,		4
19	Modeling, simulating and online setting-checking for protective relay 2009,		1
18	Applications and extension of CIM standard in chinese electrical power control centers 2009,		6
17	Development and applications of system-wide automatic voltage control system in China 2009,		12
16	PMU measurements and EMS models based transient stability on-line forecasting 2009,		1
15	A Multi-Agent based distributed computing platform for new generation of EMS 2009,		3
14	Distributed power flow calculation for whole networks including transmission and distribution 2008,		2
13	Power System Operation Risk Assessment Using Credibility Theory. <i>IEEE Transactions on Power Systems, 2008, 23, 1309-1318</i>	7	53
12	PMU based voltage stability analysis for transmission corridors 2008,		2
11	Design of a hierarchical network remodeling system based on IEC61970 for electrical power control centers in China 2008,		2
10	A supporting platform for new generation of EMS based on PC cluster 2008,		2
9	A new generation of EMS implemented in Chinese electric power control centers 2008,		3
8	A novel preventive control approach for mitigating voltage collapse 2006,		7
7	A branch-estimation-based state estimation method for radial distribution systems. <i>IEEE Transactions on Power Delivery, 2002, 17, 1057-1062</i>	4-3	58
6	An improved sequential method for AC/MTDC power system state estimation. <i>IEEE Transactions on Power Systems, 2001, 16, 506-512</i>	7	14
5	Dynamic queuing approach to power system short term economic and security dispatch. <i>IEEE Transactions on Power Systems, 1998, 13, 280-285</i>	7	11

4	A novel unit commitment method considering various operation constraints	1
3	Network reconfiguration in unbalanced distribution systems for service restoration and loss reduction	2
2	An artificial neural network-based expert system for network topological error identification	6
1	A novel architecture of distribution management system	1