Boming Zhang

List of Publications by Citations

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	Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 12-22	8.2	363
110	Transmission-Constrained Unit Commitment Considering Combined Electricity and District Heating Networks. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 480-492	8.2	227
109	Adjustable Robust Real-Time Power Dispatch With Large-Scale Wind Power Integration. *IEEE Transactions on Sustainable Energy*, **2015**, 6, 357-368	8.2	121
108	Robust Restoration Method for Active Distribution Networks. *IEEE Transactions on Power Systems*, **2016**, 31, 4005-4015	7	106
107	Rapid-Charging Navigation of Electric Vehicles Based on Real-Time Power Systems and Traffic Data. *IEEE Transactions on Smart Grid*, **2014**, 5, 1969-1979	10.7	99
106	Cyber-Physical Modeling and Cyber-Contingency Assessment of Hierarchical Control Systems. *IEEE Transactions on Smart Grid*, **2015**, 6, 2375-2385	10.7	94
105	A Robust Wind Power Optimization Method for Look-Ahead Power Dispatch. *IEEE Transactions on Sustainable Energy*, **2014**, 5, 507-515	8.2	94
104	Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. *IEEE Transactions on Sustainable Energy*, **2015**, 6, 1377-1388	8.2	85
103	Decentralized Multi-Area Dynamic Economic Dispatch Using Modified Generalized Benders Decomposition. *IEEE Transactions on Power Systems*, **2016**, 31, 526-538	7	71
102	Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. *IEEE Transactions on Power Systems*, **2013**, 28, 4516-4527	7	67
101	Development and Analysis of Applicability of a Hybrid Transient Simulation Platform Combining TSA and EMT Elements. *IEEE Transactions on Power Systems*, **2013**, 28, 357-366	7	59
100	Mixed-integer second-order cone programing model for VAR optimisation and network reconfiguration in active distribution networks. *IET Generation, Transmission and Distribution*, **2016**, 10, 1938-1946	2.5	59
99	An Improved Approach for AC-DC Power Flow Calculation With Multi-Infeed DC Systems. *IEEE Transactions on Power Systems*, **2011**, 26, 862-869	7	58
98	A branch-estimation-based state estimation method for radial distribution systems. *IEEE Transactions on Power Delivery*, **2002**, 17, 1057-1062	4.3	58
97	Fully distributed multi-area economic dispatch method for active distribution networks. *IET Generation, Transmission and Distribution*, **2015**, 9, 1341-1351	2.5	55
96	. *IEEE Transactions on Power Delivery*, **2015**, 30, 1392-1400	4.3	54
95	Power System Operation Risk Assessment Using Credibility Theory. *IEEE Transactions on Power Systems*, **2008**, 23, 1309-1318	7	53

94	An Exact Linearization Method for OLTC of Transformer in Branch Flow Model. *IEEE Transactions on Power Systems*, **2017**, 32, 2475-2476	7	52
93	Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. *IEEE Transactions on Sustainable Energy*, **2015**, 6, 583-594	8.2	49
92	Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. *IEEE Transactions on Power Systems*, **2016**, 31, 2701-2713	7	47
91	Distributed Robust Bilinear State Estimation for Power Systems with Nonlinear Measurements. *IEEE Transactions on Power Systems*, **2017**, 32, 499-509	7	46
90	A Method to Evaluate Total Supply Capability of Distribution Systems Considering Network Reconfiguration and Daily Load Curves. *IEEE Transactions on Power Systems*, **2016**, 31, 2096-2104	7	45
89	Data-Driven DG Capacity Assessment Method for Active Distribution Networks. *IEEE Transactions on Power Systems*, **2017**, 32, 3946-3957	7	44
88	A Mixed Integer Quadratic Programming Model for Topology Identification in Distribution Network. *IEEE Transactions on Power Systems*, **2016**, 31, 823-824	7	43
87	Robust reactive power optimisation and voltage control method for active distribution networks via dual time-scale coordination. *IET Generation, Transmission and Distribution*, **2017**, 11, 1461-1471	2.5	40
86	Robust Capacity Assessment of Distributed Generation in Unbalanced Distribution Networks Incorporating ANM Techniques. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 651-663	8.2	38
85	Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. *IEEE Transactions on Power Systems*, **2020**, 35, 1457-1467	7	34
84	Coordinated Multi-Area Economic Dispatch via Critical Region Projection. *IEEE Transactions on Power Systems*, **2017**, 32, 3736-3746	7	33
83	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. *IEEE Transactions on Power Systems*, **2017**, 32, 354-367	7	31
82	Study on wind-EV complementation in transmission grid side **2011**,		30
81	Hierarchical Multi-Area State Estimation via Sensitivity Function Exchanges. *IEEE Transactions on Power Systems*, **2017**, 32, 442-453	7	27
80	Robust generation maintenance scheduling considering wind power and forced outages. *IET Renewable Power Generation*, **2016**, 10, 634-641	2.9	27
79	Optimal Voltage Control of PJM Smart Transmission Grid: Study, Implementation, and Evaluation. *IEEE Transactions on Smart Grid*, **2013**, 4, 1665-1674	10.7	27
78	Distributed optimal residential demand response considering operational constraints of unbalanced distribution networks. *IET Generation, Transmission and Distribution*, **2018**, 12, 1970-1979	2.5	26
77	Applying blockchain technology to decentralized operation in future energy internet **2017**,		25

76	Loop-analysis-based continuation power flow algorithm for distribution networks. *IET Generation, Transmission and Distribution*, **2014**, 8, 1284-1292	2.5	24
75	Robust Look-Ahead Power Dispatch With Adjustable Conservativeness Accommodating Significant Wind Power Integration. *IEEE Transactions on Sustainable Energy*, **2015**, 6, 781-790	8.2	21
74	Dynamic reactive power optimal allocation to decrease wind power curtailment in a large-scale wind power integration area. *IET Renewable Power Generation*, **2017**, 11, 1667-1678	2.9	16
73	Autonomous Voltage Security Regions to Prevent Cascading Trip Faults in Wind Turbine Generators. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 1306-1316	8.2	15
72	Kullback■Leibler divergence-based distributionally robust optimisation model for heat pump day-ahead operational schedule to improve PV integration. *IET Generation, Transmission and Distribution*, **2018**, 12, 3136-3144	2.5	15
71	Information Masking Theory for Data Protection in Future Cloud-Based Energy Management. *IEEE Transactions on Smart Grid*, **2018**, 9, 5664-5676	10.7	14
70	A Distributed Multi-Control-Center Dynamic Power Flow Algorithm Based on Asynchronous Iteration Scheme. *IEEE Transactions on Power Systems*, **2018**, 33, 1716-1724	7	14
69	An improved sequential method for AC/MTDC power system state estimation. *IEEE Transactions on Power Systems*, **2001**, 16, 506-512	7	14
68	An Improved Real-Time Short-Term Voltage Stability Monitoring Method Based on Phase Rectification. *IEEE Transactions on Power Systems*, **2018**, 33, 1068-1070	7	13
67	An Efficient State Estimation Algorithm Considering Zero Injection Constraints. *IEEE Transactions on Power Systems*, **2013**, 28, 2651-2659	7	13
66	Analog-Digital Power System State Estimation Based on Information Theory■Part I: Theory. *IEEE Transactions on Smart Grid*, **2013**, 4, 1640-1646	10.7	13
65	A Reliability-Constrained Expansion Planning Model for Mesh Distribution Networks. *IEEE Transactions on Power Systems*, **2021**, 36, 948-960	7	13
64	A Static Voltage Security Region for Centralized Wind Power Integration■Part II: Applications. *Energies*, **2014**, 7, 444-461	3.1	12
63	Development and applications of system-wide automatic voltage control system in China **2009**,		12
62	Dynamic reactive power reserve optimisation in wind power integration areas. *IET Generation, Transmission and Distribution*, **2018**, 12, 507-517	2.5	11
61	Dynamic queuing approach to power system short term economic and security dispatch. *IEEE Transactions on Power Systems*, **1998**, 13, 280-285	7	11
60	Coordinated state-estimation method for air-conditioning loads to provide primary frequency regulation service. *IET Generation, Transmission and Distribution*, **2017**, 11, 3381-3388	2.5	10
59	A Spinning Reserve Allocation Method for Power Generation Dispatch Accommodating Large-Scale Wind Power Integration. *Energies*, **2013**, 6, 5357-5381	3.1	10

58	Multivariate statistical analysis-based power-grid-partitioning method. *IET Generation, Transmission and Distribution*, **2016**, 10, 1023-1031	2.5	9
57	A Static Voltage Security Region for Centralized Wind Power Integration—Part I: Concept and Method. *Energies*, **2014**, 7, 420-443	3.1	9
56	Multi-time interval power system state estimation incorporating phasor measurements **2015**,		8
55	Research on architecture of ITS based Smart Charging Guide System **2011**,		8
54	Feeder-corridor-based distribution network planning model with explicit reliability constraints. *IET Generation, Transmission and Distribution*, **2020**, 14, 5310-5318	2.5	8
53	Robust Voltage Control Strategy for Hybrid AC/DC Sending-Side Systems to Prevent Cascading Trip Failures. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 1319-1329	8.2	7
52	A novel preventive control approach for mitigating voltage collapse **2006**,		7
51	Voltage security regions considering wind power curtailment to prevent cascading trip faults in wind power integration areas. *IET Renewable Power Generation*, **2017**, 11, 54-62	2.9	6
50	Applications and extension of CIM standard in chinese electrical power control centers **2009**,		6
49	Family of energy management system for smart grid **2012**,		6
48	An artificial neural network-based expert system for network topological error identification		6
47	A Semidefinite Programming Model for Passivity Enforcement of Frequency-Dependent Network Equivalents. *IEEE Transactions on Power Delivery*, **2016**, 31, 397-399	4.3	5
46	A Fast Solution for the Lagrange Multiplier-Based Electric Power Network Parameter Error Identification Model. *Energies*, **2014**, 7, 1288-1299	3.1	5
45	Substation three-phase nonlinear state estimation based on KCL **2011**,		5
44	A Two-Level Distributed Approach to Power Network Modeling. *IEEE Transactions on Power Delivery*, **2015**, 30, 1496-1504	4.3	4
43	A fully distributed active power control method with minimum generation cost in grid-connected microgrids **2015**,		4
42	Continuation power flow based on a novel local geometric parameterisation approach. *IET Generation, Transmission and Distribution*, **2014**, 8, 811-818	2.5	4
41	Optimal residential demand response considering the operational constraints of unbalanced distribution networks **2017**,		4

40	Supplemental control for enhancing primary frequency response of DFIG-based wind farm considering security of wind turbines **2014**,		4
39	PGFB: A hybrid feature selection method based on mutual information **2010**,		4
38	Multiple time-scale coordinated power control system to accommodate significant wind power penetration and its real application **2012**,		4
37	Capacity guaranteed control method for air conditioning cluster joining power grid frequency regulation. *Journal of Engineering*, **2018**, 2018, 1884-1888	0.7	4
36	Hexagon raster-based method for distribution network planning considering line routes and pole locations. *IET Generation, Transmission and Distribution*, **2020**, 14, 1420-1429	2.5	3
35	A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 1060-1070	8.2	3
34	A decoupled interface method for electromagnetic and electromechanical simulation **2011**,		3
33	A Multi-Agent based distributed computing platform for new generation of EMS **2009**,		3
32	A new generation of EMS implemented in Chinese electric power control centers **2008**,		3
31	A two-level hierarchical discrete-device control method for power networks with integrated wind farms. *Journal of Modern Power Systems and Clean Energy*, **2019**, 7, 88-98	4	3
30	Abductive identification of bad data: methodology and field test. *IET Generation, Transmission and Distribution*, **2018**, 12, 150-159	2.5	2
29	A robust bilinear three-phase state estimation method for power systems **2016**,		2
28	Security evaluation for distribution power system using improved MIQCP based restoration strategy **2014**,		2
27	Distributed newton method for primary voltage control in Islanded DC microgrid **2017**,		2
26	Compacting and partitioning-based simulation solution for frequency-dependent network equivalents in real-time digital simulator. *IET Generation, Transmission and Distribution*, **2015**, 9, 2526-2533	2.5	2
25	Generator random outage model for risk-based monthly maintenance scheduling **2010**,		2
24	Distributed power flow calculation for whole networks including transmission and distribution **2008**,		2
23	PMU based voltage stability analysis for transmission corridors **2008**,		2

22	Design of a hierarchical network remodeling system based on IEC61970 for electrical power control centers in China **2008**,		2
21	A supporting platform for new generation of EMS based on PC cluster **2008**,		2
20	Network reconfiguration in unbalanced distribution systems for service restoration and loss reduction		2
19	A robust approach for active distribution network restoration based on scenario techniques considering load and DG uncertainties **2016**,		1
18	Development of an RTDS-TSA hybrid transient simulation platform with frequency dependent network equivalents **2013**,		1
17	Cooperative game-based method to determine the weights of load forecasting solution incorporated with various algorithms. *Journal of Engineering*, **2017**, 2017, 1312-1315	0.7	1
16	Energy and ancillary service joint dispatch of power system integrated with dynamic heating system **2017**,		1
15	Parameter identifiability analysis of power system transient models based on profile likelihood **2014**,		1
14	Real-time local voltage stability monitoring based on PMU and recursive least square method with variable forgetting factors **2012**,		1
13	A sensitivity based simplified model for security constrained optimal power flow **2012**,		1
12	Distributed Automatic Voltage Control framework for large-scale wind integration in China **2012**,		1
11	A hybrid simulation method for EVsVoperation considering power grid and traffic information **2013**,		1
10	An efficient security assessment system based on PC cluster for power system daily operation planning validation **2010**,		1
9	Study of system-wide Automatic Voltage Control on PJM system **2010**,		1
8	Modeling, simulating and online setting-checking for protective relay **2009**,		1
7	An online intelligent alarm-processing system based on abductive reasoning network **2012**,		1
6	PMU measurements and EMS models based transient stability on-line forecasting **2009**,		1
5	A novel unit commitment method considering various operation constraints		1

4	A novel architecture of distribution management system		1
3	Study on the dynamic reactive power characteristics of MMC-MTDC for wind farm integration. *Journal of Engineering*, **2017**, 2017, 691-695	0.7	0
2	Robust optimal shunt dispatch method in wind farm integration area. *Journal of Engineering*, **2017**, 2017, 1829-1832	0.7	0
1	Discussion of positive fraction vector fitting for frequency-dependent network equivalents. *Journal of Engineering*, **2017**, 2017, 812-815	0.7	