

Boming Zhang

List of Publications by Year in descending order

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137
papers

4,428
citations

117453

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114278

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137
all docs

137
docs citations

137
times ranked

3031
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. IEEE Transactions on Sustainable Energy, 2016, 7, 12-22.	5.9	534
2	Transmission-Constrained Unit Commitment Considering Combined Electricity and District Heating Networks. IEEE Transactions on Sustainable Energy, 2016, 7, 480-492.	5.9	319
3	Adjustable Robust Real-Time Power Dispatch With Large-Scale Wind Power Integration. IEEE Transactions on Sustainable Energy, 2015, 6, 357-368.	5.9	179
4	Robust Restoration Method for Active Distribution Networks. IEEE Transactions on Power Systems, 2016, 31, 4005-4015.	4.6	176
5	Cyber-Physical Modeling and Cyber-Contingency Assessment of Hierarchical Control Systems. IEEE Transactions on Smart Grid, 2015, 6, 2375-2385.	6.2	168
6	Rapid-Charging Navigation of Electric Vehicles Based on Real-Time Power Systems and Traffic Data. IEEE Transactions on Smart Grid, 2014, 5, 1969-1979.	6.2	146
7	A Robust Wind Power Optimization Method for Look-Ahead Power Dispatch. IEEE Transactions on Sustainable Energy, 2014, 5, 507-515.	5.9	128
8	Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. IEEE Transactions on Sustainable Energy, 2015, 6, 1377-1388.	5.9	123
9	Decentralized Multi-Area Dynamic Economic Dispatch Using Modified Generalized Benders Decomposition. IEEE Transactions on Power Systems, 2016, 31, 526-538.	4.6	105
10	Reducing Generation Uncertainty by Integrating CSP With Wind Power: An Adaptive Robust Optimization-Based Analysis. IEEE Transactions on Sustainable Energy, 2015, 6, 583-594.	5.9	92
11	Mixed-integer second-order cone programming model for VAR optimisation and network reconfiguration in active distribution networks. IET Generation, Transmission and Distribution, 2016, 10, 1938-1946.	1.4	92
12	An Exact Linearization Method for OLTC of Transformer in Branch Flow Model. IEEE Transactions on Power Systems, 2017, 32, 2475-2476.	4.6	90
13	Data-Driven DG Capacity Assessment Method for Active Distribution Networks. IEEE Transactions on Power Systems, 2017, 32, 3946-3957.	4.6	89
14	Robust Capacity Assessment of Distributed Generation in Unbalanced Distribution Networks Incorporating ANM Techniques. IEEE Transactions on Sustainable Energy, 2018, 9, 651-663.	5.9	89
15	Dynamic Economic Dispatch Using Lagrangian Relaxation With Multiplier Updates Based on a Quasi-Newton Method. IEEE Transactions on Power Systems, 2013, 28, 4516-4527.	4.6	86
16	A branch-estimation-based state estimation method for radial distribution systems. IEEE Transactions on Power Delivery, 2002, 17, 1057-1062.	2.9	83
17	Fully distributed multi-area economic dispatch method for active distribution networks. IET Generation, Transmission and Distribution, 2015, 9, 1341-1351.	1.4	81
18	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.	4.6	80

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19	Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2701-2713.	4.6	80
20	An Improved Approach for AC-DC Power Flow Calculation With Multi-Infeed DC Systems. IEEE Transactions on Power Systems, 2011, 26, 862-869.	4.6	79
21	Analytical Reliability Assessment Method for Complex Distribution Networks Considering Post-Fault Network Reconfiguration. IEEE Transactions on Power Systems, 2020, 35, 1457-1467.	4.6	78
22	A Mixed Integer Quadratic Programming Model for Topology Identification in Distribution Network. IEEE Transactions on Power Systems, 2016, 31, 823-824.	4.6	76
23	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.	4.6	72
24	Power System Operation Risk Assessment Using Credibility Theory. IEEE Transactions on Power Systems, 2008, 23, 1309-1318.	4.6	71
25	An Analytical Adequacy Evaluation Method for Distribution Networks Considering Protection Strategies and Distributed Generators. IEEE Transactions on Power Delivery, 2015, 30, 1392-1400.	2.9	69
26	Distributed Robust Bilinear State Estimation for Power Systems with Nonlinear Measurements. IEEE Transactions on Power Systems, 2017, 32, 499-509.	4.6	64
27	Coordinated Multi-Area Economic Dispatch via Critical Region Projection. IEEE Transactions on Power Systems, 2017, 32, 3736-3746.	4.6	59
28	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.	1.4	50
29	Distributed optimal residential demand response considering operational constraints of unbalanced distribution networks. IET Generation, Transmission and Distribution, 2018, 12, 1970-1979.	1.4	50
30	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. IEEE Transactions on Power Systems, 2017, 32, 354-367.	4.6	47
31	A Reliability-Constrained Expansion Planning Model for Mesh Distribution Networks. IEEE Transactions on Power Systems, 2021, 36, 948-960.	4.6	46
32	Applying blockchain technology to decentralized operation in future energy internet. , 2017, , .		39
33	Study on wind-EV complementation in transmission grid side. , 2011, , .		37
34	Optimal Voltage Control of PJM Smart Transmission Grid: Study, Implementation, and Evaluation. IEEE Transactions on Smart Grid, 2013, 4, 1665-1674.	6.2	37
35	Hierarchical Multi-Area State Estimation via Sensitivity Function Exchanges. IEEE Transactions on Power Systems, 2017, 32, 442-453.	4.6	36
36	Robust generation maintenance scheduling considering wind power and forced outages. IET Renewable Power Generation, 2016, 10, 634-641.	1.7	35

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37	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.	1.7	33
38	Robust Look-Ahead Power Dispatch With Adjustable Conservativeness Accommodating Significant Wind Power Integration. IEEE Transactions on Sustainable Energy, 2015, 6, 781-790.	5.9	32
39	Loop-analysis-based continuation power flow algorithm for distribution networks. IET Generation, Transmission and Distribution, 2014, 8, 1284-1292.	1.4	31
40	Development and applications of system-wide automatic voltage control system in China. , 2009, , .		28
41	Autonomous Voltage Security Regions to Prevent Cascading Trip Faults in Wind Turbine Generators. IEEE Transactions on Sustainable Energy, 2016, 7, 1306-1316.	5.9	25
42	An improved sequential method for AC/MTDC power system state estimation. IEEE Transactions on Power Systems, 2001, 16, 506-512.	4.6	22
43	An Improved Real-Time Short-Term Voltage Stability Monitoring Method Based on Phase Rectification. IEEE Transactions on Power Systems, 2018, 33, 1068-1070.	4.6	22
44	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.	1.4	21
45	Dynamic queuing approach to power system short term economic and security dispatch. IEEE Transactions on Power Systems, 1998, 13, 280-285.	4.6	19
46	An Efficient State Estimation Algorithm Considering Zero Injection Constraints. IEEE Transactions on Power Systems, 2013, 28, 2651-2659.	4.6	19
47	Information Masking Theory for Data Protection in Future Cloud-Based Energy Management. IEEE Transactions on Smart Grid, 2018, 9, 5664-5676.	6.2	18
48	A Distributed Multi-Control-Center Dynamic Power Flow Algorithm Based on Asynchronous Iteration Scheme. IEEE Transactions on Power Systems, 2018, 33, 1716-1724.	4.6	17
49	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.	5.9	17
50	Research on architecture of ITS based Smart Charging Guide System. , 2011, , .		16
51	A Spinning Reserve Allocation Method for Power Generation Dispatch Accommodating Large-Scale Wind Power Integration. Energies, 2013, 6, 5357-5381.	1.6	16
52	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.	1.7	16
53	Coordinated state-estimation method for air-conditioning loads to provide primary frequency regulation service. IET Generation, Transmission and Distribution, 2017, 11, 3381-3388.	1.4	15
54	Dynamic reactive power reserve optimisation in wind power integration areas. IET Generation, Transmission and Distribution, 2018, 12, 507-517.	1.4	15

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55	Analog-Digital Power System State Estimation Based on Information Theoryâ€”Part I: Theory. IEEE Transactions on Smart Grid, 2013, 4, 1640-1646.	6.2	14
56	A Static Voltage Security Region for Centralized Wind Power Integrationâ€”Part II: Applications. Energies, 2014, 7, 444-461.	1.6	14
57	Multivariate statistical analysisâ€”based powerâ€”gridâ€”partitioning method. IET Generation, Transmission and Distribution, 2016, 10, 1023-1031.	1.4	14
58	Feederâ€”corridorâ€”based distribution network planning model with explicit reliability constraints. IET Generation, Transmission and Distribution, 2020, 14, 5310-5318.	1.4	14
59	A Static Voltage Security Region for Centralized Wind Power Integrationâ€”Part I: Concept and Method. Energies, 2014, 7, 420-443.	1.6	12
60	A novel preventive control approach for mitigating voltage collapse. , 2006, , .		11
61	Distributed power flow calculation for whole networks including transmission and distribution. , 2008, , .		10
62	An artificial neural network-based expert system for network topological error identification. , 0, , .		9
63	A novel unit commitment method considering various operation constraints. , 0, , .		9
64	Applications and extension of CIM standard in chinese electrical power control centers. , 2009, , .		9
65	An online intelligent alarm-processing system based on abductive reasoning network. , 2012, , .		9
66	Multi-time interval power system state estimation incorporating phasor measurements. , 2015, , .		9
67	A Multi-Agent based distributed computing platform for new generation of EMS. , 2009, , .		8
68	Substation three-phase nonlinear state estimation based on KCL. , 2011, , .		8
69	Three-phase DFIG steady model and fast three-phase load flow algorithm for distribution power systems. , 2010, , .		7
70	A decoupled interface method for electromagnetic and electromechanical simulation. , 2011, , .		7
71	Capacity guaranteed control method for air conditioning cluster joining power grid frequency regulation. Journal of Engineering, 2018, 2018, 1884-1888.	0.6	7
72	Design of a hierarchical network remodeling system based on IEC61970 for electrical power control centers in China. , 2008, , .		6

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73	PGFB: A hybrid feature selection method based on mutual information. , 2010, , .		6
74	Family of energy management system for smart grid. , 2012, , .		6
75	Distributed Automatic Voltage Control framework for large-scale wind integration in China. , 2012, , .		6
76	A Fast Solution for the Lagrange Multiplier-Based Electric Power Network Parameter Error Identification Model. Energies, 2014, 7, 1288-1299.	1.6	6
77	Supplemental control for enhancing primary frequency response of DFIG-based wind farm considering security of wind turbines. , 2014, , .		6
78	Continuation power flow based on a novel local geometric parameterisation approach. IET Generation, Transmission and Distribution, 2014, 8, 811-818.	1.4	6
79	A fully distributed active power control method with minimum generation cost in grid-connected microgrids. , 2015, , .		6
80	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.	3.3	6
81	A new generation of EMS implemented in Chinese electric power control centers. , 2008, , .		5
82	Study of system-wide Automatic Voltage Control on PJM system. , 2010, , .		5
83	Real-time local voltage stability monitoring based on PMU and recursive least square method with variable forgetting factors. , 2012, , .		5
84	Network model based coordinated automatic voltage control strategy for wind farm. , 2012, , .		5
85	A robust approach for active distribution network restoration based on scenario techniques considering load and DG uncertainties. , 2016, , .		5
86	A Generation-Interval-Based Mechanism for Managing the Power Generation Uncertainties of Variable Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 1060-1070.	5.9	5
87	A Semidefinite Programming Model for Passivity Enforcement of Frequency-Dependent Network Equivalents. IEEE Transactions on Power Delivery, 2016, 31, 397-399.	2.9	5
88	Optimal residential demand response considering the operational constraints of unbalanced distribution networks. , 2017, , .		5
89	Abductive identification of bad data: methodology and field test. IET Generation, Transmission and Distribution, 2018, 12, 150-159.	1.4	5
90	Minimum information loss based state estimation for power systems. , 2006, , .		4

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91	Modeling, simulating and online setting-checking for protective relay. , 2009, , .		4
92	PMU measurements and EMS models based transient stability on-line forecasting. , 2009, , .		4
93	Multiple time-scale coordinated power control system to accommodate significant wind power penetration and its real application. , 2012, , .		4
94	A sensitivity based simplified model for security constrained optimal power flow. , 2012, , .		4
95	Development of an RTDS-TSA hybrid transient simulation platform with frequency dependent network equivalents. , 2013, , .		4
96	A Two-Level Distributed Approach to Power Network Modeling. IEEE Transactions on Power Delivery, 2015, 30, 1496-1504.	2.9	4
97	A novel architecture of distribution management system. , 0, , .		3
98	Network reconfiguration in unbalanced distribution systems for service restoration and loss reduction. , 0, , .		3
99	PMU based voltage stability analysis for transmission corridors. , 2008, , .		3
100	A supporting platform for new generation of EMS based on PC cluster. , 2008, , .		3
101	Dynamic economic dispatch with spinning reserve constraints considering wind power integration. , 2013, , .		3
102	A two-level online parameter identification approach. , 2013, , .		3
103	Security evaluation for distribution power system using improved MIQCP based restoration strategy. , 2014, , .		3
104	Robust voltage control model for active distribution network considering PVs and loads uncertainties. , 2015, , .		3
105	A robust bilinear three-phase state estimation method for power systems. , 2016, , .		3
106	Hexagon raster-based method for distribution network planning considering line routes and pole locations. IET Generation, Transmission and Distribution, 2020, 14, 1420-1429.	1.4	3
107	Branch-estimation-based state estimation for radial distribution systems. , 0, , .		2
108	An efficient security assessment system based on PC cluster for power system daily operation planning validation. , 2010, , .		2

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109	Temporal Abductive Reasoning based Intelligent Alarm for Power System. , 2010, , .		2
110	Generator random outage model for risk-based monthly maintenance scheduling. , 2010, , .		2
111	A fast probabilistic voltage assessment method for distribution system integrated with wind power generation. , 2012, , .		2
112	Accuracy evaluation indexes for power system state estimation results. , 2013, , .		2
113	A hybrid simulation method for EVs' operation considering power grid and traffic information. , 2013, , .		2
114	Compacting and partitioningâ€based simulation solution for frequencyâ€dependent network equivalents in realâ€time digital simulator. IET Generation, Transmission and Distribution, 2015, 9, 2526-2533.	1.4	2
115	A distributed newton method for optimal operation of microgrid clusters. , 2017, , .		2
116	Robust optimal shunt dispatch method in wind farm integration area. Journal of Engineering, 2017, 2017, 1829-1832.	0.6	2
117	Cooperative gameâ€based method to determine the weights of load forecasting solution incorporated with various algorithms. Journal of Engineering, 2017, 2017, 1312-1315.	0.6	2
118	Distributed newton method for primary voltage control in Islanded DC microgrid. , 2017, , .		2
119	A rigid approach of generalized power flow analysis for distribution systems. , 0, , .		1
120	Real-time measured fault impedance and EMS based transient stability on-line forecasting. , 2010, , .		1
121	A simulation and training system for active distribution network. , 2012, , .		1
122	A Validation Method for Power System Dynamic Simulation Software Based on Hybrid Simulation. , 2012, , .		1
123	Design of an online intelligent alarming system for cascading failures of group of wind farms. , 2013, , .		1
124	Parameter identifiability analysis of power system transient models based on profile likelihood. , 2014, , .		1
125	Study on the dynamic reactive power characteristics of MMCâ€MTDC for wind farm integration. Journal of Engineering, 2017, 2017, 691-695.	0.6	1
126	Energy and ancillary service joint dispatch of power system integrated with dynamic heating system. , 2017, , .		1

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127	Decentralized economic dispatch for transmission and distribution networks via modified generalized benders decomposition. , 2017, , .		1
128	An integrated approach to dynamic security assessment and control of power systems. , 0, , .		0
129	A wave filtering based electric load curve decomposition method for AGC. , 2010, , .		0
130	Preliminary research on power demand model of high energy consumers for smart grid in China. , 2010, , .		0
131	A distribution management system based on loop analysis method. , 2011, , .		0
132	Dynamic model development and validation for electromagnetic and electromechanical simulation. , 2012, , .		0
133	GPF-based method for evaluating EVs' free charging impacts in distribution system. , 2012, , .		0
134	Reactive power substitution between rapid and slow dynamic var compensators. , 2013, , .		0
135	Coordinated multi-area economic dispatch via multi-parametric programming. , 2015, , .		0
136	Multi-area economic dispatch via state space decomposition. , 2016, , .		0
137	Discussion of positive fraction vector fitting for frequencyâ€dependent network equivalents. Journal of Engineering, 2017, 2017, 812-815.	0.6	0