Bo Zeng

List of Publications by Year
in descending order

72 papers	3,181 citations	257450 24 h-index	155660 55 g-index
72 all docs	72 docs citations	72 times ranked	2455 citing authors

#	Article	IF	Citations
1	Solving two-stage robust optimization problems using a column-and-constraint generation method. Operations Research Letters, 2013, 41, 457-461.	0.7	1,094
2	Robust Optimization-Based Resilient Distribution Network Planning Against Natural Disasters. IEEE Transactions on Smart Grid, 2016, 7, 2817-2826.	9.0	419
3	Integrated Planning for Transition to Low-Carbon Distribution System With Renewable Energy Generation and Demand Response. IEEE Transactions on Power Systems, 2014, 29, 1153-1165.	6.5	289
4	Chance-Constrained Two-Stage Unit Commitment Under Uncertain Load and Wind Power Output Using Bilinear Benders Decomposition. IEEE Transactions on Power Systems, 2017, 32, 3637-3647.	6.5	101
5	Distribution System Reconfiguration Under Uncertain Load and Renewable Generation. IEEE Transactions on Power Systems, 2016, 31, 2666-2675.	6.5	89
6	Bilevel Robust Optimization of Electric Vehicle Charging Stations With Distributed Energy Resources. IEEE Transactions on Industry Applications, 2020, 56, 5836-5847.	4.9	65
7	A Chance Constrained Information-Gap Decision Model for Multi-Period Microgrid Planning. IEEE Transactions on Power Systems, 2018, 33, 2684-2695.	6.5	61
8	Optimal demand response resource exploitation for efficient accommodation of renewable energy sources in multi-energy systems considering correlated uncertainties. Journal of Cleaner Production, 2021, 288, 125666.	9.3	59
9	Impact of behavior-driven demand response on supply adequacy in smart distribution systems. Applied Energy, 2017, 202, 125-137.	10.1	55
10	Hybrid probabilistic-possibilistic approach for capacity credit evaluation of demand response considering both exogenous and endogenous uncertainties. Applied Energy, 2018, 229, 186-200.	10.1	53
11	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. IEEE Transactions on Power Systems, 2017, 32, 354-367.	6.5	47
12	A multi-level approach to active distribution system planning for efficient renewable energy harvesting in a deregulated environment. Energy, 2016, 96, 614-624.	8.8	45
13	Evaluating Demand Response Impacts on Capacity Credit of Renewable Distributed Generation in Smart Distribution Systems. IEEE Access, 2018, 6, 14307-14317.	4.2	45
14	Optimal Allocation of Series FACTS Devices Under High Penetration of Wind Power Within a Market Environment. IEEE Transactions on Power Systems, 2018, 33, 6206-6217.	6.5	45
15	Stochastic and Chance-Constrained Conic Distribution System Expansion Planning Using Bilinear Benders Decomposition. IEEE Transactions on Power Systems, 2018, 33, 2696-2705.	6.5	44
16	Bilevel Programming Approach for Optimal Planning Design of EV Charging Station. IEEE Transactions on Industry Applications, 2020, 56, 2314-2323.	4.9	40
17	Co-Optimized Parking Lot Placement and Incentive Design for Promoting PEV Integration Considering Decision-Dependent Uncertainties. IEEE Transactions on Industrial Informatics, 2021, 17, 1863-1872.	11.3	38
18	An interval-prediction based robust optimization approach for energy-hub operation scheduling considering flexible ramping products. Energy, 2020, 194, 116821.	8.8	35

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19	Addressing the Conditional and Correlated Wind Power Forecast Errors in Unit Commitment by Distributionally Robust Optimization. IEEE Transactions on Sustainable Energy, 2021, 12, 944-954.	8.8	34
20	A Study on the Strong Duality of Second-Order Conic Relaxation of AC Optimal Power Flow in Radial Networks. IEEE Transactions on Power Systems, 2022, 37, 443-455.	6.5	34
21	An optimal integrated planning method for supporting growing penetration of electric vehicles in distribution systems. Energy, 2017, 126, 273-284.	8.8	33
22	A note on linearized reformulations for a class of bilevel linear integer problems. Annals of Operations Research, 2019, 272, 99-117.	4.1	33
23	Hydrogen-Based Networked Microgrids Planning Through Two-Stage Stochastic Programming With Mixed-Integer Conic Recourse. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3672-3685.	5.2	31
24	Assessing the Impact of an EV Battery Swapping Station on the Reliability of Distribution Systems. Applied Sciences (Switzerland), 2020, 10, 8023.	2.5	25
25	Bilevel Mixed Integer Transmission Expansion Planning. IEEE Transactions on Power Systems, 2018, 33, 7309-7312.	6.5	24
26	Bilevel Conic Transmission Expansion Planning. IEEE Transactions on Power Systems, 2018, 33, 4640-4642.	6.5	22
27	Optimal Public Parking Lot Allocation and Management for Efficient PEV Accommodation in Distribution Systems. IEEE Transactions on Industry Applications, 2020, 56, 5984-5994.	4.9	22
28	Efficient FPGA Implementation of Low-Complexity Systolic Karatsuba Multiplier Over $GF(2^{m})$ Based on NIST Polynomials. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1815-1825.	5.4	21
29	System state model based multiâ€period robust generation, transmission, and demand side resource coâ€optimisation planning. IET Generation, Transmission and Distribution, 2019, 13, 345-354.	2.5	21
30	Assessing capacity credit of demand response in smart distribution grids with behavior-driven modeling framework. International Journal of Electrical Power and Energy Systems, 2020, 118, 105745.	5.5	21
31	Unified probabilistic energy flow analysis for electricityâ€“gas coupled systems with integrated demand response. IET Generation, Transmission and Distribution, 2019, 13, 2697-2710.	2.5	20
32	Quantifying the contribution of EV battery swapping stations to the economic and reliability performance of future distribution system. International Journal of Electrical Power and Energy Systems, 2022, 136, 107675.	5.5	18
33	Capacity value estimation of plug-in electric vehicle parking-lots in urban power systems: A physical-social coupling perspective. Applied Energy, 2020, 265, 114809.	10.1	17
34	Assessing the global burden of hemorrhage: The global blood supply, deficits, and potential solutions. SAGE Open Medicine, 2021, 9, 205031212110549.	1.8	17
35	Co-Optimization of Supply and Demand Resources for Load Restoration of Distribution System Under Extreme Weather. IEEE Access, 2021, 9, 122907-122923.	4.2	15
36	Co-Optimization of Battery Storage Investment and Grid Expansion in Integrated Energy Systems. IEEE Systems Journal, 2022, 16, 5928-5938.	4.6	13

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37	Multicomponent Maintenance Optimization: A Stochastic Programming Approach. INFORMS Journal on Computing, 2021, 33, 898-914.	1.7	10
38	Robust mutant strain design by pessimistic optimization. BMC Genomics, 2017, 18, 677.	2.8	9
39	Optimal Expert Knowledge Elicitation for Bayesian Network Structure Identification. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1163-1177.	5.2	9
40	Cost-effective power grid protection through defenderâ€“attackerâ€“defender model with corrective network topology control. Energy Systems, 2020, 11, 811-837.	3.0	9
41	Capacity Expansion of Wind Power in a Market Environment With Topology Control. IEEE Transactions on Sustainable Energy, 2019, 10, 1834-1843.	8.8	8
42	Multiâ€scenario comprehensive benefit evaluation model of a multiâ€energy microâ€grid based on the matterâ€element extension model. Energy Science and Engineering, 2021, 9, 402-416.	4.0	7
43	Potential of harnessing operational flexibility from public transport hubs to improve reliability and economic performance of urban multi-energy systems: A holistic assessment framework. Applied Energy, 2022, 322, 119488.	10.1	7
44	Combining a continuous location model and Heuristic techniques to determine oilfield warehouse locations under future oil well location uncertainty. Soft Computing, 2018, 22, 823-837.	3.6	6
45	Collaborative Planning of DERs and Intentional Islands in Distribution Network Considering Loss-of-Load Risk. IEEE Access, 2018, 6, 45961-45973.	4.2	6
46	Holistic modeling framework of demand response considering multi-timescale uncertainties for capacity value estimation. Applied Energy, 2019, 247, 692-702.	10.1	6
47	Risk-Based Contingency Screening Method Considering Cyber-Attacks on Substations. IEEE Transactions on Smart Grid, 2022, 13, 4973-4976.	9.0	6
48	Two-stage Combinatory Planning Method for Efficient Wind Power Integration in Smart Distribution Systems Considering Uncertainties. Electric Power Components and Systems, 2014, 42, 1661-1672.	1.8	5
49	A bilevel planning method of active distribution system for renewable energy harvesting in a deregulated environment. , 2015, , .		5
50	A reliable alternative of OptKnock for desirable mutant microbial strains. , 2016, , .		5
51	On Solving Nonsmooth Mixed-Integer Nonlinear Programming Problems by Outer Approximation and Generalized Benders Decomposition. Journal of Optimization Theory and Applications, 2019, 181, 840-863.	1.5	5
52	An Interval Optimization-Based Approach for Electricâ€“Heatâ€“Gas Coupled Energy System Planning Considering the Correlation between Uncertainties. Energies, 2021, 14, 2457.	3.1	5
53	Analysis of probabilistic energy flow for integrated electricity-gas energy system with P2G based on cumulant method. , 2017, , .		4
54	Sequence independent lifting for a set of submodular maximization problems. Mathematical Programming, 2022, 196, 69-114.	2.4	4

#	Article	IF	Citations
55	Capacity credit assessment of renewable distributed generation in active distribution systems considering demand response impact. , 2015, , .		2
56	A robust unit commitment model under correlated temperatures and demands. , 2016, , .		2
57	Impact of demand response on capacity credit of renewable distributed generation. Journal of Engineering, 2017, 2017, 1814-1818.	1.1	2
58	On bilevel minimum and bottleneck spanning tree problems. Networks, 2019, 74, 251-273.	2.7	2
59	A Dynamic Strategy for Home Pick-Up Service with Uncertain Customer Requests and Its Implementation. Sustainability, 2019, 11, 2060.	3.2	2
60	Learning edge weights in file co-occurrence graphs for malware detection. Data Mining and Knowledge Discovery, 2019, 33, 168-203.	3.7	2
61	A Practical Scheme to Compute the Pessimistic Bilevel Optimization Problem. INFORMS Journal on Computing, 0, , .	1.7	2
62	Comprehensive Benefit/Cost Analysis of Utilizing PEV Parking Lots as Virtual Energy Storage for the Energy Supply Sustainability of Future Distribution Systems. Frontiers in Energy Research, 2021, 9, .	2.3	2
63	Structured storage policies for energy distribution networks. IISE Transactions, 2018, 50, 683-698.	2.4	1
64	A Data-Driven Dispatching Approach for Sustainable Exploitation of Demand Response Resources. , 2018, , .		1
65	Concurrent query processing in a GPU-based database system. PLoS ONE, 2019, 14, e0214720.	2.5	1
66	Optimal allocation of public transport hub based on load loss value and economy of distribution network. , 2021, , .		1
67	Capacity Credit Assessment of Demand Response Based on a Rigorous Uncertainty Modeling Framework. , 2018, , .		0
68	Smart Metering Planning for Wind Power Accommodation in Multi-energy System Considering Correlated Uncertainties. , 2020, , .		0
69	Improved Symbiotic Organisms Search Algorithm for Optimal Operation of Active Distribution Systems Incorporating Renewables and Emerging Dataâ€Center Resources. Energy Science and Engineering, 2021, 9, 1719.	4.0	0
70	Capacity Value and Economic Evaluation of Electric Vehicle Parking Lots in Smart Distribution Grids. , 2020, , .		0
71	Research on Capacity Expansion Strategy of Distribution Network Based on Time-Space Response Capability of Data Center. , 2021, , .		0
72	Quantifying the Techno-Economic Benefits From Flexibility of EV Battery Swapping Stations in Distribution Networks. , 2022, , .		0