

Tao Zhang

List of Publications by Year in descending order

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papers

2,199
citations

304743

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g-index

70
all docs

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docs citations

70
times ranked

1839
citing authors

#	ARTICLE	IF	CITATIONS
1	A Coevolutionary Framework for Constrained Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2021, 25, 102-116.	10.0	230
2	Localized Weighted Sum Method for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 3-18.	10.0	226
3	Decomposition-Based Algorithms Using Pareto Adaptive Scalarizing Methods. IEEE Transactions on Evolutionary Computation, 2016, 20, 821-837.	10.0	222
4	Evolutionary Many-Objective Optimization: A Comparative Study of the State-of-the-Art. IEEE Access, 2018, 6, 26194-26214.	4.2	129
5	Optimal operation of a smart residential microgrid based on model predictive control by considering uncertainties and storage impacts. Solar Energy, 2015, 122, 1052-1065.	6.1	124
6	Deep Reinforcement Learning for Multiobjective Optimization. IEEE Transactions on Cybernetics, 2021, 51, 3103-3114.	9.5	118
7	Multi-objective optimal design of hybrid renewable energy systems using preference-inspired coevolutionary approach. Solar Energy, 2015, 118, 96-106.	6.1	112
8	Interval prediction of solar power using an Improved Bootstrap method. Solar Energy, 2018, 159, 97-112.	6.1	76
9	A Dual-Population-Based Evolutionary Algorithm for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 739-753.	10.0	75
10	On the effect of reference point in MOEA/D for multi-objective optimization. Applied Soft Computing Journal, 2017, 58, 25-34.	7.2	70
11	Multi-Objective Optimization of Hybrid Renewable Energy System Using an Enhanced Multi-Objective Evolutionary Algorithm. Energies, 2017, 10, 674.	3.1	69
12	A multi-objective co-evolutionary algorithm for energy-efficient scheduling on a green data center. Computers and Operations Research, 2016, 75, 103-117.	4.0	64
13	Weighted Indicator-Based Evolutionary Algorithm for Multimodal Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 1064-1078.	10.0	63
14	Optimal Scheduling of Track Maintenance on a Railway Network. Quality and Reliability Engineering International, 2013, 29, 285-297.	2.3	52
15	Dynamic design of sales territories. Computers and Operations Research, 2015, 56, 84-92.	4.0	42
16	Pareto adaptive penalty-based boundary intersection method for multi-objective optimization. Information Sciences, 2017, 414, 158-174.	6.9	38
17	State-of-health estimation for lithium-ion batteries by combining model-based incremental capacity analysis with support vector regression. Energy, 2022, 239, 121986.	8.8	36
18	Robust Optimization for Microgrid Defense Resource Planning and Allocation Against Multi-Period Attacks. IEEE Transactions on Smart Grid, 2019, 10, 5841-5850.	9.0	30

#	ARTICLE	IF	CITATIONS
19	A deep belief network approach to remaining capacity estimation for lithium-ion batteries based on charging process features. <i>Journal of Energy Storage</i> , 2022, 48, 103825.	8.1	29
20	Deep Reinforcement Learning for Combinatorial Optimization: Covering Salesman Problems. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 13142-13155.	9.5	26
21	Reinvestigation of evolutionary many-objective optimization: Focus on the Pareto knee front. <i>Information Sciences</i> , 2020, 522, 193-213.	6.9	24
22	Multi-scenario microgrid optimization using an evolutionary multi-objective algorithm. <i>Swarm and Evolutionary Computation</i> , 2019, 50, 100570.	8.1	23
23	A Method for Interval Prediction of Satellite Battery State of Health Based on Sample Entropy. <i>IEEE Access</i> , 2019, 7, 141549-141561.	4.2	22
24	Reliability-based Optimal Maintenance Scheduling by Considering Maintenance Effect to Reduce Cost. <i>Quality and Reliability Engineering International</i> , 2005, 21, 203-220.	2.3	20
25	SGEES: Smart green energy-efficient scheduling strategy with dynamic electricity price for data center. <i>Journal of Systems and Software</i> , 2015, 108, 23-38.	4.5	19
26	A tri-level optimization model for power grid defense with the consideration of post-allocated DGs against coordinated cyber-physical attacks. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 130, 106903.	5.5	19
27	Robust model predictive control for energy management of isolated microgrids. , 2017, , .		16
28	Short-term load forecasting based on a improved deep belief network. , 2016, , .		15
29	Short-Term Load Forecasting Using a Novel Deep Learning Framework. <i>Energies</i> , 2018, 11, 1554.	3.1	15
30	Multi-Objective Optimal Design of Renewable Energy Integrated CCHP System Using PICEA-g. <i>Energies</i> , 2018, 11, 743.	3.1	15
31	Multiobjective routing optimization of mobile charging vehicles for UAV power supply guarantees. <i>Computers and Industrial Engineering</i> , 2021, 162, 107714.	6.3	13
32	Short-Term Forecasting of Wind Power Generation Based on the Similar Day and Elman Neural Network. , 2015, , .		10
33	Evolutionary Many-Constraint Optimization: An Exploratory Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 165-176.	1.3	10
34	Cooperative co-evolution with improved differential grouping method for large-scale global optimisation. <i>International Journal of Bio-Inspired Computation</i> , 2018, 12, 214.	0.9	9
35	Energy Management Model of Charging Station Micro-Grid Considering Random Arrival of Electric Vehicles. , 2018, , .		9
36	Pareto Adaptive Scalarising Functions for Decomposition Based Algorithms. <i>Lecture Notes in Computer Science</i> , 2015, , 248-262.	1.3	9

#	ARTICLE	IF	CITATIONS
37	Knee Point-Guided Multiobjective Optimization Algorithm for Microgrid Dynamic Energy Management. Complexity, 2020, 2020, 1-11.	1.6	9
38	An enhanced MOEA/D using uniform directions and a pre-organization procedure. , 2013, , .		8
39	Detection of Voltage Anomalies in Spacecraft Storage Batteries Based on a Deep Belief Network. Sensors, 2019, 19, 4702.	3.8	8
40	Solar Power Prediction in Smart Grid Based on NWP Data and an Improved Boosting Method. , 2017, , .		7
41	Optimal microgrid operation based on model predictive control framework. , 2017, , .		7
42	Optimal Deception Strategies in Power System Fortification against Deliberate Attacks. Energies, 2019, 12, 342.	3.1	7
43	Dâ€¦ frame predictive current control methods for inverter stage of solid state transformer. IET Power Electronics, 2017, 10, 687-696.	2.1	6
44	Stochastic programming approach for earthquake disaster relief mobilization with multiple objectives. Journal of Systems Engineering and Electronics, 2013, 24, 642-654.	2.2	5
45	Asymmetric Information in Military Microgrid Confrontationsâ€”Evaluation Metric and Influence Analysis. Energies, 2020, 13, 1954.	3.1	5
46	An ensemble learning prognostic method for capacity estimation of lithium-ion batteries based on the V-IOWGA operator. Energy, 2022, 257, 124725.	8.8	5
47	Predictive direct power control for rectifier stage of solid state transformer. , 2016, , .		4
48	Sliding mode control of solid state transformer using a three-level hysteresis function. Journal of Central South University, 2016, 23, 2063-2074.	3.0	4
49	Multi-Objective Optimization of Hybrid Renewable Energy System with Load Forecasting. , 2017, , .		4
50	A Multi-Time Scale Robust Energy Management Scheme for Grid-Connected Micro-Grid. , 2018, , .		4
51	Robust Model Predictive Control for Energy Management of Isolated Microgrids Based on Interval Prediction. Discrete Dynamics in Nature and Society, 2021, 2021, 1-14.	0.9	4
52	PICEA-g using an enhanced fitness assignment method. , 2014, , .		3
53	A Robust and Model Predictive Control Based Energy Management Scheme for Grid-Connected Microgrids. , 2018, , .		3
54	Short-Term Load Interval Prediction Using a Deep Belief Network. Energies, 2018, 11, 2744.	3.1	3

#	ARTICLE	IF	CITATIONS
55	Two-stage robust optimal scheduling of cooperative microgrids based on expected scenarios. IET Generation, Transmission and Distribution, 2020, 14, 6741-6753.	2.5	3
56	A Deep Learning Method with Ensemble Learning for Capacity Estimation of Lithium-ion Battery. , 2020, , .		3
57	Stochastic Model Predictive Control Based Economic Dispatch for Hybrid Energy System Including Wind and Energy Storage Devices. , 2015, , .		2
58	An enhanced preference-inspired co-evolutionary algorithm using orthogonal design and an μ -dominance archiving strategy. Engineering Optimization, 2016, 48, 415-436.	2.6	2
59	Operation Management of a Hybrid Renewable Energy Systems Base on Multi-Objective Optimal under Uncertainties. , 2017, , .		2
60	High Overload Power Supply System and Its Energy Synchronization Control Method for Short-Term High-Energy Pulse Load. IEEE Transactions on Smart Grid, 2022, 13, 849-860.	9.0	2
61	Short-Term Load Forecasting Based on RBM and NARX Neural Network. Lecture Notes in Computer Science, 2018, , 193-203.	1.3	2
62	An Improved Dispatch Strategy of a Grid-Connected Hybrid Energy System with High Penetration Level of Renewable Energy. Mathematical Problems in Engineering, 2014, 2014, 1-18.	1.1	1
63	MPC Based Approach for Reliable Power System Energy Management with High Penetration Level of Renewable Energy Resources. Advanced Materials Research, 2014, 986-987, 371-376.	0.3	1
64	Solving Economic Dispatch Problem in Energy Internet Using a Two-Level Stochastic Gossip-Based Consensus Algorithm. Advanced Materials Research, 0, 986-987, 2162-2166.	0.3	1
65	Triple-state hysteresis direct power control for three phase PWM rectifier. , 2015, , .		1
66	COMPOSITION OF ONE-DIMENSIONAL CONTINUOUS FUNCTIONS AND THEIR RIEMANN-LIOUVILLE FRACTIONAL INTEGRAL. Fractals, 2019, 27, 1950065.	3.7	1
67	Reliability-Based Route Optimization of a Transportation Network with Random Arc Capacities and Time Threshold. Lecture Notes in Computer Science, 2011, , 143-156.	1.3	1
68	Effect of Transfer Functions in Deep Belief Network for Short-Term Load Forecasting. Communications in Computer and Information Science, 2017, , 511-522.	0.5	1
69	Resilience Assessment for Microgrid with Pre-Position and Reconfiguration of Emergency Distribution Generations under Natural Hazard. International Transactions on Electrical Energy Systems, 2022, 2022, 1-12.	1.9	1
70	An OOPN-based approach for modeling and analyzing the capability of maintenance support network. , 2012, , .		0