Bo Yang

List of Publications by Year
in descending order

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138 papers	5,232 citations	81900 39 h-index	95266 68 g-index
138 all docs	138 docs citations	138 times ranked	2895 citing authors

#	Article	IF	Citations
1	Robust sliding-mode control of wind energy conversion systems for optimal power extraction via nonlinear perturbation observers. Applied Energy, 2018, 210, 711-723.	10.1	318
2	Novel bio-inspired memetic salp swarm algorithm and application to MPPT for PV systems considering partial shading condition. Journal of Cleaner Production, 2019, 215, 1203-1222.	9.3	313
3	Grouped grey wolf optimizer for maximum power point tracking of doubly-fed induction generator based wind turbine. Energy Conversion and Management, 2017, 133, 427-443.	9.2	312
4	Nonlinear maximum power point tracking control and modal analysis of DFIG based wind turbine. International Journal of Electrical Power and Energy Systems, 2016, 74, 429-436.	5.5	247
5	Passivity-based sliding-mode control design for optimal power extraction of a PMSG based variable speed wind turbine. Renewable Energy, 2018, 119, 577-589.	8.9	238
6	Comprehensive overview of meta-heuristic algorithm applications on PV cell parameter identification. Energy Conversion and Management, 2020, 208, 112595.	9.2	238
7	Dynamic leader based collective intelligence for maximum power point tracking of PV systems affected by partial shading condition. Energy Conversion and Management, 2019, 179, 286-303.	9.2	206
8	Comprehensive overview of maximum power point tracking algorithms of PV systems under partial shading condition. Journal of Cleaner Production, 2020, 268, 121983.	9.3	150
9	PV arrays reconfiguration for partial shading mitigation: Recent advances, challenges and perspectives. Energy Conversion and Management, 2021, 247, 114738.	9.2	83
10	Democratic joint operations algorithm for optimal power extraction of PMSG based wind energy conversion system. Energy Conversion and Management, 2018, 159, 312-326.	9.2	81
11	Applications of battery/supercapacitor hybrid energy storage systems for electric vehicles using perturbation observer based robust control. Journal of Power Sources, 2020, 448, 227444.	7.8	81
12	Perturbation observer based fractional-order sliding-mode controller for MPPT of grid-connected PV inverters: Design and real-time implementation. Control Engineering Practice, 2018, 79, 105-125.	5.5	80
13	Stochastic Optimal Relaxed Automatic Generation Control in Non-Markov Environment Based on Multi-Step $Q(lambda)$ Learning. IEEE Transactions on Power Systems, 2011, 26, 1272-1282.	6.5	79
14	Adaptive distributed auction-based algorithm for optimal mileage based AGC dispatch with high participation of renewable energy. International Journal of Electrical Power and Energy Systems, 2021, 124, 106371.	5.5	78
15	Design and implementation of Battery/SMES hybrid energy storage systems used in electric vehicles: A nonlinear robust fractional-order control approach. Energy, 2020, 191, 116510.	8.8	71
16	Perturbation observer based fractional-order PID control of photovoltaics inverters for solar energy harvesting via Yin-Yang-Pair optimization. Energy Conversion and Management, 2018, 171, 170-187.	9.2	70
17	Photovoltaic cell parameter estimation based on improved equilibrium optimizer algorithm. Energy Conversion and Management, 2021, 236, 114051.	9.2	68
18	Decentralized optimal multi-energy flow of large-scale integrated energy systems in a carbon trading market. Energy, 2018, 149, 779-791.	8.8	67

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19	A state-of-the-art survey of solid oxide fuel cell parameter identification: Modelling, methodology, and perspectives. Energy Conversion and Management, 2020, 213, 112856.	9.2	67
20	Lifelong Learning for Complementary Generation Control of Interconnected Power Grids With High-Penetration Renewables and EVs. IEEE Transactions on Power Systems, 2018, 33, 4097-4110.	6.5	64
21	Optimal Mileage Based AGC Dispatch of a GenCo. IEEE Transactions on Power Systems, 2020, 35, 2516-2526.	6.5	63
22	Energy reshaping based passive fractional-order PID control design and implementation of a grid-connected PV inverter for MPPT using grouped grey wolf optimizer. Solar Energy, 2018, 170, 31-46.	6.1	62
23	Fast atom search optimization based MPPT design of centralized thermoelectric generation system under heterogeneous temperature difference. Journal of Cleaner Production, 2020, 248, 119301.	9.3	60
24	Classification, summarization and perspectives on state-of-charge estimation of lithium-ion batteries used in electric vehicles: A critical comprehensive survey. Journal of Energy Storage, 2021, 39, 102572.	8.1	60
25	Memetic reinforcement learning based maximum power point tracking design for PV systems under partial shading condition. Energy, 2019, 174, 1079-1090.	8.8	56
26	Deep transfer Q-learning with virtual leader-follower for supply-demand Stackelberg game of smart grid. Energy, 2017, 133, 348-365.	8.8	55
27	Adaptive fractional-order PID control of PMSG-based wind energy conversion system for MPPT using linear observers. International Transactions on Electrical Energy Systems, 2019, 29, e2697.	1.9	54
28	A critical survey of proton exchange membrane fuel cell system control: Summaries, advances, and perspectives. International Journal of Hydrogen Energy, 2022, 47, 9986-10020.	7.1	54
29	Optimal sizing and placement of energy storage system in power grids: A state-of-the-art one-stop handbook. Journal of Energy Storage, 2020, 32, 101814.	8.1	53
30	A critical survey of technologies of large offshore wind farm integration: summary, advances, and perspectives. Protection and Control of Modern Power Systems, 2022, 7, .	7.5	53
31	Optimal mileage-based PV array reconfiguration using swarm reinforcement learning. Energy Conversion and Management, 2021, 232, 113892.	9.2	51
32	A data-driven output voltage control of solid oxide fuel cell using multi-agent deep reinforcement learning. Applied Energy, 2021, 304, 117541.	10.1	48
33	A critical survey on proton exchange membrane fuel cell parameter estimation using meta-heuristic algorithms. Journal of Cleaner Production, 2020, 265, 121660.	9.3	47
34	Accelerating bio-inspired optimizer with transfer reinforcement learning for reactive power optimization. Knowledge-Based Systems, 2017, 116, 26-38.	7.1	45
35	Ranking-based biased learning swarm optimizer for large-scale optimization. Information Sciences, 2019, 493, 120-137.	6.9	45
36	Parameter extraction of PEMFC via Bayesian regularization neural network based meta-heuristic algorithms. Energy, 2021, 228, 120592.	8.8	44

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37	Approximate ideal multi-objective solution Q(Î») learning for optimal carbon-energy combined-flow in multi-energy power systems. Energy Conversion and Management, 2015, 106, 543-556.	9.2	43
38	MPPT design of centralized thermoelectric generation system using adaptive compass search under non-uniform temperature distribution condition. Energy Conversion and Management, 2019, 199, 111991.	9.2	43
39	Perturbation estimation based robust state feedback control for grid connected DFIG wind energy conversion system. International Journal of Hydrogen Energy, 2017, 42, 20994-21005.	7.1	42
40	State-of-the-art one-stop handbook on wind forecasting technologies: An overview of classifications, methodologies, and analysis. Journal of Cleaner Production, 2021, 283, 124628.	9.3	42
41	Virtual generation tribe based robust collaborative consensus algorithm for dynamic generation command dispatch optimization of smart grid. Energy, 2016, 101, 34-51.	8.8	41
42	Wolf pack hunting strategy for automatic generation control of an islanding smart distribution network. Energy Conversion and Management, 2016, 122, 10-24.	9.2	40
43	Applications of supercapacitor energy storage systems in microgrid with distributed generators via passive fractional-order sliding-mode control. Energy, 2019, 187, 115905.	8.8	40
44	Greedy search based data-driven algorithm of centralized thermoelectric generation system under non-uniform temperature distribution. Applied Energy, 2020, 260, 114232.	10.1	37
45	Dynamic Surrogate Model Based Optimization for MPPT of Centralized Thermoelectric Generation Systems Under Heterogeneous Temperature Difference. IEEE Transactions on Energy Conversion, 2020, 35, 966-976.	5.2	37
46	Recent advances and summarization of fault diagnosis techniques for proton exchange membrane fuel cell systems: A critical overview. Journal of Power Sources, 2021, 500, 229932.	7.8	37
47	A wolf pack hunting strategy based virtual tribes control for automatic generation control of smart grid. Applied Energy, 2016, 178, 198-211.	10.1	36
48	A novel multi-agent decentralized win or learn fast policy hill-climbing with eligibility trace algorithm for smart generation control of interconnected complex power grids. Energy Conversion and Management, 2015, 103, 82-93.	9.2	34
49	Adaptive deep dynamic programming for integrated frequency control of multi-area multi-microgrid systems. Neurocomputing, 2019, 344, 49-60.	5.9	34
50	Relaxed deep learning for real-time economic generation dispatch and control with unified time scale. Energy, 2018, 149, 11-23.	8.8	33
51	Stochastic Transactive Control for Electric Vehicle Aggregators Coordination: A Decentralized Approximate Dynamic Programming Approach. IEEE Transactions on Smart Grid, 2020, 11, 4261-4277.	9.0	33
52	Modelling, applications, and evaluations of optimal sizing and placement of distributed generations: A critical stateâ€ofâ€theâ€art survey. International Journal of Energy Research, 2021, 45, 3615-3642.	4.5	33
53	Equilibrium-inspired multiagent optimizer with extreme transfer learning for decentralized optimal carbon-energy combined-flow of large-scale power systems. Applied Energy, 2017, 189, 157-176.	10.1	32
54	Passivityâ€based linear feedback control of permanent magnetic synchronous generatorâ€based wind energy conversion system: design and analysis. IET Renewable Power Generation, 2018, 12, 981-991.	3.1	31

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55	PCSMC design of permanent magnetic synchronous generator for maximum power point tracking. IET Generation, Transmission and Distribution, 2019, 13, 3115-3126.	2.5	31
56	Robust collaborative consensus algorithm for decentralized economic dispatch with a practical communication network. Electric Power Systems Research, 2016, 140, 597-610.	3.6	30
57	Parameter identification of proton exchange membrane fuel cell via Levenberg-Marquardt backpropagation algorithm. International Journal of Hydrogen Energy, 2021, 46, 22998-23012.	7.1	29
58	Interactive teachingâ€“learning optimiser for parameter tuning of VSCâ€HVDC systems with offshore wind farm integration. IET Generation, Transmission and Distribution, 2018, 12, 678-687.	2.5	27
59	Socio-inspired democratic political algorithm for optimal PV array reconfiguration to mitigate partial shading. Sustainable Energy Technologies and Assessments, 2021, 48, 101627.	2.7	27
60	Extreme learning machine based meta-heuristic algorithms for parameter extraction of solid oxide fuel cells. Applied Energy, 2021, 303, 117630.	10.1	27
61	Wave energy converter array layout optimization: A critical and comprehensive overview. Renewable and Sustainable Energy Reviews, 2022, 167, 112668.	16.4	27
62	Solid oxide fuel cell systems fault diagnosis: Critical summarization, classification, and perspectives. Journal of Energy Storage, 2021, 34, 102153.	8.1	25
63	Control of SMES systems in distribution networks with renewable energy integration: A perturbation estimation approach. Energy, 2020, 202, 117753.	8.8	25
64	Robust fractional-order PID control of supercapacitor energy storage systems for distribution network applications: A perturbation compensation based approach. Journal of Cleaner Production, 2021, 279, 123362.	9.3	20
65	Many-Objective Optimal Power Dispatch Strategy Incorporating Temporal and Spatial Distribution Control of Multiple Air Pollutants. IEEE Transactions on Industrial Informatics, 2019, 15, 5309-5319.	11.3	18
66	Arithmetic optimization algorithm based MPPT technique for centralized TEG systems under different temperature gradients. Energy Reports, 2022, 8, 2424-2433.	5.1	18
67	<scp>Levenbergâ€Marquardt</scp> backpropagation algorithm for parameter identification of solid oxide fuel cells. International Journal of Energy Research, 2021, 45, 17903-17923.	4.5	17
68	Adaptive rapid neural optimization: A data-driven approach to MPPT for centralized TEG systems. Electric Power Systems Research, 2021, 199, 107426.	3.6	17
69	Consensus Transfer Q-learning for Decentralized Generation Command Dispatch based on Virtual Generation Tribe. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	16
70	Nonlinear Observer-Based Robust Passive Control of Doubly-Fed Induction Generators for Power System Stability Enhancement via Energy Reshaping. Energies, 2017, 10, 1082.	3.1	16
71	Hot Spot Temperature and Grey Target Theory-Based Dynamic Modelling for Reliability Assessment of Transformer Oil-Paper Insulation Systems: A Practical Case Study. Energies, 2018, 11, 249.	3.1	16
72	Design and implementation of perturbation observerâ€based robust passivityâ€based control for VSCâ€MTDC systems considering offshore wind power integration. IET Generation, Transmission and Distribution, 2018, 12, 2415-2424.	2.5	16

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73	Multiagent Stochastic Dynamic Game for Smart Generation Control. Journal of Energy Engineering - ASCE, 2016, 142, .	1.9	15
74	Passivity-based fractional-order sliding-mode control design and implementation of grid-connected photovoltaic systems. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	15
75	Coordinated control of gas supply system in PEMFC based on multi-agent deep reinforcement learning. International Journal of Hydrogen Energy, 2021, 46, 33899-33914.	7.1	15
76	Speededâ€up robust features based singleâ€ended travelling wave fault location: a practical case study in Yunnan power grid of China. IET Generation, Transmission and Distribution, 2018, 12, 886-894.	2.5	14
77	Global Maximum Power Point Tracking of PV Systems under Partial Shading Condition: A Transfer Reinforcement Learning Approach. Applied Sciences (Switzerland), 2019, 9, 2769.	2.5	14
78	Risk-averse real-time dispatch of integrated electricity and heat system using a modified approximate dynamic programming approach. Energy, 2020, 198, 117347.	8.8	14
79	Asynchronous Fault Location Scheme Based on Voltage Distribution for Three-Terminal Transmission Lines. IEEE Transactions on Power Delivery, 2020, 35, 2530-2540.	4.3	14
80	Parameter identification of PV cell via adaptive compass search algorithm. Energy Reports, 2021, 7, 275-282.	5.1	14
81	Influence of Terpenic Oil on Flotation Behavior of Sphalerite and Implication for the Selective Separation. Adsorption Science and Technology, 2021, 2021, 1-9.	3.2	14
82	Influence of the Interaction between Sphalerite and Pyrite on the Copper Activation of Sphalerite. Minerals (Basel, Switzerland), 2018, 8, 16.	2.0	13
83	Control of superconducting magnetic energy storage systems in gridâ€connected microgrids via memetic salp swarm algorithm: An optimal passive fractionalâ€order PID approach. IET Generation, Transmission and Distribution, 2019, 13, 5511-5522.	2.5	13
84	Multi-Physical Coupling Field Study of 500 kV GIL: Simulation, Characteristics, and Analysis. IEEE Access, 2020, 8, 131439-131448.	4.2	13
85	Short-Term Power Generation Forecasting of a Photovoltaic Plant Based on PSO-BP and GA-BP Neural Networks. Frontiers in Energy Research, 2022, 9, .	2.3	13
86	A Random Forest-Assisted Fast Distributed Auction-Based Algorithm for Hierarchical Coordinated Power Control in a Large-Scale PV Power Plant. IEEE Transactions on Sustainable Energy, 2021, 12, 2471-2481.	8.8	12
87	Bacteria Foraging Reinforcement Learning for Risk-Based Economic Dispatch via Knowledge Transfer. Energies, 2017, 10, 638.	3.1	10
88	Reliability assessment of distribution networks through graph theory, topology similarity and statistical analysis. IET Generation, Transmission and Distribution, 2019, 13, 37-45.	2.5	10
89	Adaptive Controller of PEMFC Output Voltage Based on Ambient Intelligence Large-Scale Deep Reinforcement Learning. IEEE Access, 2021, 9, 6063-6075.	4.2	10
90	Single Pole-to-Ground Fault Analysis of MMC-HVDC Transmission Lines Based on Capacitive Fuzzy Identification Algorithm. Energies, 2020, 13, 319.	3.1	10

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91	Reactive Power Optimization of Large-Scale Power Systems: A Transfer Bees Optimizer Application. Processes, 2019, 7, 321.	2.8	9
92	Optimal Nonlinear Adaptive Control for Voltage Source Converters via Memetic Salp Swarm Algorithm: Design and Hardware Implementation. Processes, 2019, 7, 490.	2.8	9
93	Optimal PID Tuning of PLL for PV Inverter Based on Aquila Optimizer. Frontiers in Energy Research, 2022, 9, .	2.3	9
94	Fault Ride-Through Capability Enhancement of Type-4 WECS in Offshore Wind Farm via Nonlinear Adaptive Control of VSC-HVDC. Processes, 2019, 7, 540.	2.8	8
95	Synthesis and characterization of a series of novel amino Î²-cyclodextrin-conjugated poly(Îµ-lysine) derivatives. Journal of Polymer Engineering, 2014, 34, 133-139.	1.4	7
96	Novel phasianidae inspired peafowl (Pavo muticus/cristatus) optimization algorithm: Design, evaluation, and SOFC models parameter estimation. Sustainable Energy Technologies and Assessments, 2022, 50, 101825.	2.7	7
97	Culture Evolution Learning for Optimal Carbon-Energy Combined-Flow. IEEE Access, 2018, 6, 15521-15531.	4.2	6
98	Voltage Distributionâ€“Based Fault Location for Half-Wavelength Transmission Line with Large-Scale Wind Power Integration in China. Energies, 2018, 11, 593.	3.1	6
99	Analysis and hardware implementation of virtual resistance based PV inverters for harmonics suppression. IET Generation, Transmission and Distribution, 2019, 13, 4592-4603.	2.5	6
100	Dynamic space vector based discontinuous PWM for three-level inverters. International Journal of Electrical Power and Energy Systems, 2020, 117, 105638.	5.5	6
101	Interactive Equilibrium of Electricity-Gas Energy Distribution System and Integrated Load Aggregators Considering Energy Pricings: A Master-Slave Approach. IEEE Access, 2020, 8, 70527-70541.	4.2	6
102	Identification between internal and external faults of UHVDC transmission lines based on sequential overlapping derivative transform of voltage transient. IET Generation, Transmission and Distribution, 2020, 14, 4643-4653.	2.5	6
103	Analysis of electrical length compensation types for tuned half-wavelength transmission lines. International Journal of Electrical Power and Energy Systems, 2020, 115, 105520.	5.5	5
104	Grey Wolf Optimizer based MPPT Control of Centralized Thermoelectric Generator Applied in Thermal Power Stations. , 2020, , .		5
105	Fault Model and Travelling Wave Matching Based Single Terminal Fault Location Algorithm for T-Connection Transmission Line: A Yunnan Power Grid Study. Energies, 2020, 13, 1506.	3.1	5
106	Interacted collective intelligence based energy harvesting of centralized thermoelectric generation systems under non-uniform temperature gradient. Sustainable Energy Technologies and Assessments, 2021, 48, 101600.	2.7	5
107	Optimal coordinated control of hybrid AC/VSC-HVDC system integrated with DFIG via cooperative beetle antennae search algorithm. PLoS ONE, 2020, 15, e0242316.	2.5	5
108	Experimental and Simulation Research on the Preparation of Carbon Nano-Materials by Chemical Vapor Deposition. Materials, 2021, 14, 7356.	2.9	5

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109	Modified linear active disturbance rejection control for microgrid inverters: Design, analysis, and hardware implementation. International Transactions on Electrical Energy Systems, 2019, 29, e12060.	1.9	4
110	Overall Adaptive Controller Design of PMSG Under Whole Wind Speed Range: A Perturbation Compensation Based Approach. Processes, 2019, 7, 732.	2.8	4
111	Optimal Placement and Sizing of Distributed Generators Based on Multiobjective Particle Swarm Optimization. Frontiers in Energy Research, 2021, 9, .	2.3	4
112	Effect of Ammonium Chloride on the Efficiency with Which Copper Sulfate Activates Marmatite: Change in Solution Composition and Regulation of Surface Composition. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td	2.0	3
113	Voltage Correlation Based Single Pole-to-Ground Fault Detection of MMC-HVDC Transmission Line. IEEE Access, 2021, 9, 118124-118133.	4.2	3
114	MRFO Based Optimal Filter Capacitors Configuration in Substations with Renewable Energy Integration. , 2022, , .		3
115	Wind Speed and Power Prediction Approaches: Classifications, Methodologies, and Comments. Frontiers in Energy Research, 2022, 10, .	2.3	3
116	Sliding-Mode Perturbation Observer-Based Sliding-Mode Control for VSC-HVDC Systems. , 2018, , .		2
117	Adaptive Pitch Control of Variable-Pitch PMSG Based Wind Turbine. Applied Sciences (Switzerland), 2019, 9, 4109.	2.5	2
118	Fractional-order Feedback Linearization Sliding-mode Control Design for Grid-connected PV Inverters. , 2019, , .		2
119	Cost Consensus Algorithm Applications for EV Charging Station Participating in AGC of Interconnected Power Grid. Applied Sciences (Switzerland), 2019, 9, 4886.	2.5	2
120	Multi-timescale and multi-objective power dispatch strategy incorporating air pollutant temporal and spatial distribution control. Journal of Cleaner Production, 2020, 253, 119453.	9.3	2
121	A detection method of high impedance arcing fault for distribution network with distributed generation based on CEEMDAN and TEO algorithm. International Transactions on Electrical Energy Systems, 2021, 31, e12926.	1.9	2
122	Compensation circuit design for tuned half-wavelength transmission lines based on Bessel filter. International Journal of Electrical Power and Energy Systems, 2022, 134, 107335.	5.5	2
123	Optimal Adaptive Inertial Droop Controlâ€“Based Power System Frequency Regulation via Wind Farms. Frontiers in Energy Research, 2022, 9, .	2.3	2
124	Flotation Performance and Adsorption Mechanism of a Novel Chelating Collector for Azurite. Minerals (Basel, Switzerland), 2022, 12, 441.	2.0	2
125	Performance of TiB2 Wettable Cathode Coating. Minerals (Basel, Switzerland), 2022, 12, 27.	2.0	2
126	Recent Photovoltaic Cell Parameter Identification Approaches: A Critical Note. Frontiers in Energy Research, 2022, 10, .	2.3	2

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127	Current Status, Challenges, and Trends of Maximum Power Point Tracking for PV Systems. Frontiers in Energy Research, 2022, 10, .	2.3	2
128	Optimal Passive PID Controller of PMSG for Maximum Power Point Tracking via Interactive Teaching-learning Optimizer. , 2018, , .		1
129	Passive Current Control Design for MMC in HVDC Systems through Energy Reshaping. Electronics (Switzerland), 2019, 8, 967.	3.1	1
130	Evaluations of Practical Engineering Application of Photovoltaic Reconfiguration Technology. Frontiers in Energy Research, 2022, 9, .	2.3	1
131	A Critical Note of Major Parameter Extraction Methods for Proton Exchange Membrane Fuel Cell (PEMFC). Frontiers in Energy Research, 2022, 9, .	2.3	1
132	MRFO-AEO Based Batteries Parameter Identification for Life Prediction. , 2022, , .		1
133	Smoothly Transitive Fixed Frequency Hysteresis Current Control Based on Optimal Voltage Space Vector. Energies, 2018, 11, 1695.	3.1	0
134	Parameter Identification for Solid Oxide Fuel Cell Models: Crucial Comments. Frontiers in Energy Research, 2022, 10, .	2.3	0
135	Maximum Power Point Tracking of Thermoelectric Generation Systems Under Nonuniform Temperature Distribution: A State-of-the-Art Evaluation. Frontiers in Energy Research, 2022, 10, .	2.3	0
136	Bald Eagle Search Algorithm for Parameter Identification of Proton Exchange Membrane Fuel Cell. Frontiers in Energy Research, 2022, 10, .	2.3	0
137	MO-PSO Based Bi-level Multi-objective Optimal Configuration of Energy Storage System in Distribution Network. , 2022, , .		0
138	Solid Oxide Fuel Cell Parameter Extraction via Chaos Game Optimization. , 2022, , .		0