Bo Yang

List of Publications by Year
in descending order

150 papers	5,125 citations	101543 36 h-index	102487 66 g-index
150 all docs	150 docs citations	150 times ranked	3314 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	Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. IEEE Internet of Things Journal, 2021, 8, 13343-13354.	8.7	99
10	Backhaul-Aware User Association and Resource Allocation for Energy-Constrained HetNets. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	81
11	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
12	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
13	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
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	Decentralized optimal multi-energy flow of large-scale integrated energy systems in a carbon trading market. Energy, 2018, 149, 779-791.	8.8	67
18	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

#	Article	IF	Citations
19	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
20	Optimal Mileage Based AGC Dispatch of a GenCo. IEEE Transactions on Power Systems, 2020, 35, 2516-2526.	6.5	63
21	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
22	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
23	Memetic reinforcement learning based maximum power point tracking design for PV systems under partial shading condition. Energy, 2019, 174, 1079-1090.	8.8	56
24	Deep transfer Q-learning with virtual leader-follower for supply-demand Stackelberg game of smart grid. Energy, 2017, 133, 348-365.	8.8	55
25	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
26	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
27	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
28	Accelerating bio-inspired optimizer with transfer reinforcement learning for reactive power optimization. Knowledge-Based Systems, 2017, 116, 26-38.	7.1	45
29	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
30	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
31	Energy trading in microgrids for synergies among electricity, hydrogen and heat networks. Applied Energy, 2020, 272, 115225.	10.1	43
32	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
33	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
34	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
35	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
36	An automatic sorting system for electronic components detached from waste printed circuit boards. Waste Management, 2022, 137, 1-8.	7.4	39

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37	Greedy search based data-driven algorithm of centralized thermoelectric generation system under non-uniform temperature distribution. Applied Energy, 2020, 260, 114232.	10.1	37
38	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
39	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
40	Subcarrier-Pairing-Based Resource Optimization for OFDM Wireless Powered Relay Transmissions With Time Switching Scheme. IEEE Transactions on Signal Processing, 2017, 65, 1130-1145.	5.3	36
41	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
42	Adaptive deep dynamic programming for integrated frequency control of multi-area multi-microgrid systems. Neurocomputing, 2019, 344, 49-60.	5.9	34
43	Relaxed deep learning for real-time economic generation dispatch and control with unified time scale. Energy, 2018, 149, 11-23.	8.8	33
44	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
45	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
46	Credit rating based real-time energy trading in microgrids. Applied Energy, 2019, 236, 985-996.	10.1	32
47	Consensus Based Estimation Over Relay Assisted Sensor Networks for Situation Monitoring. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 278-291.	10.8	31
48	Passivity–based linear feedback control of permanent magnetic synchronous generator–based wind energy conversion system: design and analysis. IET Renewable Power Generation, 2018, 12, 981-991.	3.1	31
49	PCSMC design of permanent magnetic synchronous generator for maximum power point tracking. IET Generation, Transmission and Distribution, 2019, 13, 3115-3126.	2.5	31
50	Distributionally robust chance-constrained energy management of an integrated retailer in the multi-energy market. Applied Energy, 2021, 286, 116516.	10.1	31
51	Robust collaborative consensus algorithm for decentralized economic dispatch with a practical communication network. Electric Power Systems Research, 2016, 140, 597-610.	3.6	30
52	Optimal Power Management for Failure Mode of MVDC Microgrids in All-Electric Ships. IEEE Transactions on Power Systems, 2019, 34, 1054-1067.	6.5	30
53	Energy management based on multi-agent deep reinforcement learning for a multi-energy industrial park. Applied Energy, 2022, 311, 118636.	10.1	30
54	Distributed Control for Charging Multiple Electric Vehicles with Overload Limitation. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3441-3454.	5.6	29

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55	Optimal Dispatching Strategy for Shared Battery Station of Electric Vehicle by Divisional Battery Control. IEEE Access, 2019, 7, 38224-38235.	4.2	28
56	Optimal demand response scheduling with Stackelberg game approach under load uncertainty for smart grid. , 2012, , .		27
57	Interactive teaching–learning optimiser for parameter tuning of VSC–HVDC systems with offshore wind farm integration. IET Generation, Transmission and Distribution, 2018, 12, 678-687.	2.5	27
58	Eco-Platooning for Cooperative Automated Vehicles Under Mixed Traffic Flow. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2023-2034.	8.0	27
59	IoT-Based Proactive Energy Supply Control for Connected Electric Vehicles. IEEE Internet of Things Journal, 2019, 6, 7395-7405.	8.7	25
60	Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. IEEE Internet of Things Journal, 2021, 8, 7833-7848.	8.7	25
61	Control of SMES systems in distribution networks with renewable energy integration: A perturbation estimation approach. Energy, 2020, 202, 117753.	8.8	25
62	Control Performance Aware Cooperative Transmission in Multiloop Wireless Control Systems for Industrial IoT Applications. IEEE Internet of Things Journal, 2018, 5, 3954-3966.	8.7	24
63	An Optimization Strategy of Price and Conversion Factor Considering the Coupling of Electricity and Gas Based on Three-Stage Game. IEEE Transactions on Automation Science and Engineering, 2023, 20, 878-891.	5.2	24
64	Energy-aware and QoS-aware load balancing for HetNets powered by renewable energy. Computer Networks, 2016, 94, 250-262.	5.1	22
65	Proactive Power Management Scheme for Hybrid Electric Storage System in EVs: An MPC Method. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5246-5257.	8.0	22
66	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
67	Cross-Layer Scheduling for OFDMA-Based Cognitive Radio Systems With Delay and Security Constraints. IEEE Transactions on Vehicular Technology, 2015, 64, 5919-5934.	6.3	18
68	Asynchronous Decentralized Federated Learning for Collaborative Fault Diagnosis of PV Stations. IEEE Transactions on Network Science and Engineering, 2022, 9, 1680-1696.	6.4	18
69	Parallel Cyber-Physical-Social Systems Based Smart Energy Robotic Dispatcher and Knowledge Automation: Concepts, Architectures, and Challenges. IEEE Intelligent Systems, 2019, 34, 54-64.	4.0	17
70	Optimization and Self-Adaptive Dispatching Strategy for Multiple Shared Battery Stations of Electric Vehicles. IEEE Transactions on Industrial Informatics, 2021, 17, 1363-1374.	11.3	17
71	Optimal dispatch of electric taxis and price making of charging stations using Stackelberg game. , 2015, , .		16
72	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

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73	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
74	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
75	Design and implementation of perturbation observer-based robust passivity-based control for VSC-MTDC systems considering offshore wind power integration. IET Generation, Transmission and Distribution, 2018, 12, 2415-2424.	2.5	16
76	Multiagent Stochastic Dynamic Game for Smart Generation Control. Journal of Energy Engineering - ASCE, 2016, 142, .	1.9	15
77	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
78	Speeded-up robust features based single-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
79	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
80	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
81	Fairness-guaranteed pricing and power allocation with a friendly jammer against eavesdropping. , 2012, , .		13
82	Multi-Physical Coupling Field Study of 500 kV GIL: Simulation, Characteristics, and Analysis. IEEE Access, 2020, 8, 131439-131448.	4.2	13
83	A compressed sensing and CNN-based method for fault diagnosis of photovoltaic inverters in edge computing scenarios. IET Renewable Power Generation, 2022, 16, 1434-1444.	3.1	13
84	Matching-Based Cell Selection for Proportional Fair Throughput Boosting via Dual-Connectivity. , 2017, , , .		12
85	Multi-level coordinated energy management for energy hub in hybrid markets with distributionally robust scheduling. Applied Energy, 2022, 311, 118639.	10.1	11
86	Coexistence of Robust Edge States and Superconductivity in Few-Layer Stanene. Physical Review Letters, 2022, 128, .	7.8	11
87	Femtocaching in video content delivery: Assignment of video clips to serve dynamic mobile users. Computer Communications, 2014, 51, 60-69.	5.1	10
88	Bacteria Foraging Reinforcement Learning for Risk-Based Economic Dispatch via Knowledge Transfer. Energies, 2017, 10, 638.	3.1	10
89	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
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	Matching-based joint uplink and downlink user association for energy-efficient hetnets. , 2016, , .		9
92	Distributed load shedding for microgrid with compensation support via wireless network. IET Generation, Transmission and Distribution, 2018, 12, 2006-2018.	2.5	9
93	Reactive Power Optimization of Large-Scale Power Systems: A Transfer Bees Optimizer Application. Processes, 2019, 7, 321.	2.8	9
94	Trading mechanism and pricing strategy of integrated energy systems based on credit rating and Bayesian game. Energy, 2021, 232, 120948.	8.8	9
95	Privacy-preserving design for emergency response scheduling system in medical social networks. Peer-to-Peer Networking and Applications, 2017, 10, 340-356.	3.9	8
96	Risk-Averse Transmission Path Selection for Secure State Estimation in Power Systems. IEEE Internet of Things Journal, 2019, 6, 3121-3131.	8.7	8
97	Multi-Energy Microgrids: Designing, operation under new business models, and engineering practices in China. IEEE Electrification Magazine, 2021, 9, 75-82.	1.8	8
98	Energy-Efficient Resource Allocation for Time-Varying OFDMA Relay Systems With Hybrid Energy Supplies. IEEE Systems Journal, 2018, 12, 702-713.	4.6	7
99	SuperSA: Superframe design based slot allocation of Wireless Body Area Networks for healthcare systems. , 2012, , .		6
100	Culture Evolution Learning for Optimal Carbon-Energy Combined-Flow. IEEE Access, 2018, 6, 15521-15531.	4.2	6
101	Voltage Distribution–Based Fault Location for Half-Wavelength Transmission Line with Large-Scale Wind Power Integration in China. Energies, 2018, 11, 593.	3.1	6
102	Sum Rate Maximization for Multi-Carrier SWIPT Relay System With Non-Ideal Power Amplifier and Circuit Power Consumption. IEEE Access, 2019, 7, 89805-89820.	4.2	6
103	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
104	Dynamic space vector based discontinuous PWM for three-level inverters. International Journal of Electrical Power and Energy Systems, 2020, 117, 105638.	5.5	6
105	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
106	Joint Task Offloading and Resource Allocation for Multihop Industrial Internet of Things. IEEE Internet of Things Journal, 2022, 9, 22022-22033.	8.7	6
107	Cross-layer scheduling with secrecy demands in delay-aware OFDMA network. , 2013, , .		5
108	VANET based traffic estimation: A matrix completion approach. , 2013, , .		5

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109	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
110	Grey Wolf Optimizer based MPPT Control of Centralized Thermoelectric Generator Applied in Thermal Power Stations. , 2020, , .		5
111	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
112	FSRâ€SSL: A fault sample rebalancing framework based on semiâ€supervised learning for PV fault diagnosis. IET Renewable Power Generation, 2022, 16, 2667-2681.	3.1	5
113	Stochastic gradient-based fast distributed multi-energy management for an industrial park with temporally-coupled constraints. Applied Energy, 2022, 317, 119107.	10.1	5
114	Flow rate control and resource allocation policy with security demands in OFDMA networks. , 2012, , .		4
115	Multi-leader multi-follower game based power control for downlink heterogeneous networks. , 2014, , .		4
116	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
117	Online and robust resource allocation for D2D communications assisted by Green relays. IET Communications, 2019, 13, 3547-3557.	2.2	4
118	Overall Adaptive Controller Design of PMSG Under Whole Wind Speed Range: A Perturbation Compensation Based Approach. Processes, 2019, 7, 732.	2.8	4
119	Joint Interference Management and Power Allocation for Relay-Assisted Smart Grid Communications. IEEE Internet of Things Journal, 2020, 7, 1927-1938.	8.7	4
120	Distributed Urban Freeway Traffic Optimization Considering Congestion Propagation. IEEE Internet of Things Journal, 2022, 9, 12155-12165.	8.7	4
121	Dynamic Hidden Markov Model for Metropolitan Traffic Flow Prediction. , 2020, , .		4
122	A context-aware entrance guard in smart home: An event-driven application based on the human motion and face recognition. , 2011, , .		3
123	Chasing the Most Popular Video: An Evolutionary Video Clip Selection. IEEE Communications Letters, 2014, 18, 781-784.	4.1	3
124	Dynamic sleep control in green relay-assisted networks for energy saving and QoS improving. , 2015, , .		3
125	Stabilization of Markov Jump Linear Systems with Input Quantization. Circuits, Systems, and Signal Processing, 2015, 34, 2109-2126.	2.0	3
126	Queue-Aware Cell Activation and User Association for Traffic Offloading via Dual-Connectivity. IEEE Access, 2019, 7, 84938-84951.	4.2	3

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127	Task Offloading Based on Edge Computing Considering Overhead and Load Balancing in Industrial Internet of Things. , 2020, , .		3
128	Electric Taxi Charging Strategy Based on Stackelberg Game Considering Hotspot Information. IEEE Transactions on Vehicular Technology, 2022, 71, 2427-2436.	6.3	3
129	Distributionally robust heat-and-electricity pricing for energy hub with uncertain demands. Electric Power Systems Research, 2022, 211, 108333.	3.6	3
130	Adaptive Pitch Control of Variable-Pitch PMSG Based Wind Turbine. Applied Sciences (Switzerland), 2019, 9, 4109.	2.5	2
131	Fractional-order Feedback Linearization Sliding-mode Control Design for Grid-connected PV Inverters. , 2019, , .		2
132	Cost Consensus Algorithm Applications for EV Charging Station Participating in AGC of Interconnected Power Grid. Applied Sciences (Switzerland), 2019, 9, 4886.	2.5	2
133	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
134	Simple normalization of multi-temporal thermal ir data and applied research on the monitoring of typical coal fires in Northern China. , 0, , .		1
135	Power allocation based on finite-horizon optimization for vehicle-to-roadside communications. , 2012, , .		1
136	Pricing-based resource allocation with security requirements for OFDM networks in real-time electricity market. , 2013, , .		1
137	Transmission reliability enhancement for multi-sensor state estimation in industrial CPSs. , 2016, , .		1
138	Energy-aware user association and energy cooperation for smart-grid-powered HetNet. , 2017, , .		1
139	State-of-charge inconsistency estimation for li-ion battery pack using electrochemical model. , 2017, , .		1
140	Optimal Passive PID Controller of PMSG for Maximum Power Point Tracking via Interactive Teaching-learning Optimizer. , 2018, , .		1
141	Passive Current Control Design for MMC in HVDC Systems through Energy Reshaping. Electronics (Switzerland), 2019, 8, 967.	3.1	1
142	Resource-Efficient Visual Multiobject Tracking on Embedded Device. IEEE Internet of Things Journal, 2022, 9, 8531-8543.	8.7	1
143	Optimization of Relay Power and Load Control Period Based on Cost Sharing Contract in Smart Grid Communications. IEEE Internet of Things Journal, 2021, , 1-1.	8.7	1
144	Prediction-based Transmission-Control Codesign for Vehicle Platooning. , 2020, , .		1

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145	Auction based task assignment for pursuit-evasion game in wireless sensor network. , 2012, , .		0
146	Real-time payoff-maximization for aggregator in dynamic aggregator-PHEV system. , 2014, , .		0
147	Block compressed sensing based background subtraction for embedded smart camera. , 2014, , .		0
148	Power Allocation Based on Finite-Horizon Optimization for Data Transmission in Vehicle-to-Roadside Communications. Wireless Personal Communications, 2015, 81, 1177-1197.	2.7	0
149	State-of-charge estimation for li-ion batteries based on multi-strategy probabilities fusion. , 2017, , .		0
150	Smoothly Transitive Fixed Frequency Hysteresis Current Control Based on Optimal Voltage Space Vector. Energies, 2018, 11, 1695.	3.1	0