

Xiao Shun Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65

papers

1,692

citations

22

h-index

39

g-index

66

ext. papers

2,587

ext. citations

7.3

avg, IF

5.53

L-index

#	Paper	IF	Citations
65	Grouped grey wolf optimizer for maximum power point tracking of doubly-fed induction generator based wind turbine. <i>Energy Conversion and Management</i> , 2017 , 133, 427-443	10.6	220
64	Novel bio-inspired memetic salp swarm algorithm and application to MPPT for PV systems considering partial shading condition. <i>Journal of Cleaner Production</i> , 2019 , 215, 1203-1222	10.3	194
63	Dynamic leader based collective intelligence for maximum power point tracking of PV systems affected by partial shading condition. <i>Energy Conversion and Management</i> , 2019 , 179, 286-303	10.6	123
62	Comprehensive overview of meta-heuristic algorithm applications on PV cell parameter identification. <i>Energy Conversion and Management</i> , 2020 , 208, 112595	10.6	107
61	Democratic joint operations algorithm for optimal power extraction of PMSG based wind energy conversion system. <i>Energy Conversion and Management</i> , 2018 , 159, 312-326	10.6	54
60	Comprehensive overview of maximum power point tracking algorithms of PV systems under partial shading condition. <i>Journal of Cleaner Production</i> , 2020 , 268, 121983	10.3	51
59	Decentralized optimal multi-energy flow of large-scale integrated energy systems in a carbon trading market. <i>Energy</i> , 2018 , 149, 779-791	7.9	49
58	Applications of battery/supercapacitor hybrid energy storage systems for electric vehicles using perturbation observer based robust control. <i>Journal of Power Sources</i> , 2020 , 448, 227444	8.9	39
57	Deep transfer Q-learning with virtual leader-follower for supply-demand Stackelberg game of smart grid. <i>Energy</i> , 2017 , 133, 348-365	7.9	36
56	Optimal Mileage Based AGC Dispatch of a GenCo. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 2516-2526		36
55	Lifelong Learning for Complementary Generation Control of Interconnected Power Grids With High-Penetration Renewables and EVs. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4097-4110	7	36
54	Adaptive distributed auction-based algorithm for optimal mileage based AGC dispatch with high participation of renewable energy. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 124, 106371	5.1	36
53	Design and implementation of Battery/SMES hybrid energy storage systems used in electric vehicles: A nonlinear robust fractional-order control approach. <i>Energy</i> , 2020 , 191, 116510	7.9	33
52	Hierarchically correlated equilibrium Q-learning for multi-area decentralized collaborative reactive power optimization. <i>CSEE Journal of Power and Energy Systems</i> , 2016 , 2, 65-72	2.3	33
51	Accelerating bio-inspired optimizer with transfer reinforcement learning for reactive power optimization. <i>Knowledge-Based Systems</i> , 2017 , 116, 26-38	7.3	32
50	Memetic reinforcement learning based maximum power point tracking design for PV systems under partial shading condition. <i>Energy</i> , 2019 , 174, 1079-1090	7.9	31
49	Artificial emotional reinforcement learning for automatic generation control of large-scale interconnected power grids. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2305-2313	2.5	29

48	Fast atom search optimization based MPPT design of centralized thermoelectric generation system under heterogeneous temperature difference. <i>Journal of Cleaner Production</i> , 2020 , 248, 119301	10.3	29
47	A state-of-the-art survey of solid oxide fuel cell parameter identification: Modelling, methodology, and perspectives. <i>Energy Conversion and Management</i> , 2020 , 213, 112856	10.6	27
46	Applications of supercapacitor energy storage systems in microgrid with distributed generators via passive fractional-order sliding-mode control. <i>Energy</i> , 2019 , 187, 115905	7.9	26
45	Efficient experience replay based deep deterministic policy gradient for AGC dispatch in integrated energy system. <i>Applied Energy</i> , 2021 , 285, 116386	10.7	26
44	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. <i>Energy Conversion and Management</i> , 2015 , 103, 82-93	10.6	25
43	Approximate ideal multi-objective solution Q(λ) learning for optimal carbon-energy combined-flow in multi-energy power systems. <i>Energy Conversion and Management</i> , 2015 , 106, 543-556	10.6	22
42	A wolf pack hunting strategy based virtual tribes control for automatic generation control of smart grid. <i>Applied Energy</i> , 2016 , 178, 198-211	10.7	22
41	Robust collaborative consensus algorithm for decentralized economic dispatch with a practical communication network. <i>Electric Power Systems Research</i> , 2016 , 140, 597-610	3.5	21
40	A critical survey on proton exchange membrane fuel cell parameter estimation using meta-heuristic algorithms. <i>Journal of Cleaner Production</i> , 2020 , 265, 121660	10.3	19
39	MPPT design of centralized thermoelectric generation system using adaptive compass search under non-uniform temperature distribution condition. <i>Energy Conversion and Management</i> , 2019 , 199, 111991	10.6	19
38	Interactive teaching-learning optimiser for parameter tuning of VSC-HVDC systems with offshore wind farm integration. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 678-687	2.5	18
37	Optimal sizing and placement of energy storage system in power grids: A state-of-the-art one-stop handbook. <i>Journal of Energy Storage</i> , 2020 , 32, 101814	7.8	18
36	Photovoltaic cell parameter estimation based on improved equilibrium optimizer algorithm. <i>Energy Conversion and Management</i> , 2021 , 236, 114051	10.6	18
35	Homogenized adjacent points method: A novel Pareto optimizer for linearized multi-objective optimal energy flow of integrated electricity and gas system. <i>Applied Energy</i> , 2019 , 233-234, 338-351	10.7	18
34	Dynamic Surrogate Model Based Optimization for MPPT of Centralized Thermoelectric Generation Systems Under Heterogeneous Temperature Difference. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 966-976	5.4	16
33	Greedy search based data-driven algorithm of centralized thermoelectric generation system under non-uniform temperature distribution. <i>Applied Energy</i> , 2020 , 260, 114232	10.7	16
32	Pareto tribe evolution with equilibrium-based decision for multi-objective optimization of multiple home energy management systems. <i>Energy and Buildings</i> , 2018 , 159, 11-23	7	15
31	Optimal mileage-based PV array reconfiguration using swarm reinforcement learning. <i>Energy Conversion and Management</i> , 2021 , 232, 113892	10.6	14

30	Fast Stackelberg equilibrium learning for real-time coordinated energy control of a multi-area integrated energy system. <i>Applied Thermal Engineering</i> , 2019 , 153, 225-241	5.8	13
29	Many-Objective Optimal Power Dispatch Strategy Incorporating Temporal and Spatial Distribution Control of Multiple Air Pollutants. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 5309-5319	11.9	12
28	Fast learning optimiser for real-time optimal energy management of a grid-connected microgrid. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 2977-2987	2.5	12
27	Control of SMES systems in distribution networks with renewable energy integration: A perturbation estimation approach. <i>Energy</i> , 2020 , 202, 117753	7.9	12
26	State-of-the-art one-stop handbook on wind forecasting technologies: An overview of classifications, methodologies, and analysis. <i>Journal of Cleaner Production</i> , 2021 , 283, 124628	10.3	11
25	A cyber-physical-social system with parallel learning for distributed energy management of a microgrid. <i>Energy</i> , 2018 , 165, 205-221	7.9	11
24	Modelling, applications, and evaluations of optimal sizing and placement of distributed generations: A critical state-of-the-art survey. <i>International Journal of Energy Research</i> , 2021 , 45, 3615-3642	4.5	10
23	Deep Forest Reinforcement Learning for Preventive Strategy Considering Automatic Generation Control in Large-Scale Interconnected Power Systems. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2185	2.6	10
22	Global Maximum Power Point Tracking of PV Systems under Partial Shading Condition: A Transfer Reinforcement Learning Approach. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2769	2.6	8
21	Emergency fault affected wide-area automatic generation control via large-scale deep reinforcement learning. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 106, 104500	7.2	8
20	Control of superconducting magnetic energy storage systems in grid-connected microgrids via memetic salp swarm algorithm: An optimal passive fractional-order PID approach. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 5511-5522	2.5	8
19	Reactive Power Optimization of Large-Scale Power Systems: A Transfer Bees Optimizer Application. <i>Processes</i> , 2019 , 7, 321	2.9	7
18	Consensus Transfer Q -Learning for Decentralized Generation Command Dispatch Based on Virtual Generation Tribe. <i>IEEE Transactions on Smart Grid</i> , 2016 , 1-1	10.7	7
17	Robust fractional-order PID control of supercapacitor energy storage systems for distribution network applications: A perturbation compensation based approach. <i>Journal of Cleaner Production</i> , 2021 , 279, 123362	10.3	7
16	Bacteria Foraging Reinforcement Learning for Risk-Based Economic Dispatch via Knowledge Transfer. <i>Energies</i> , 2017 , 10, 638	3.1	6
15	Multi-Agent Bargaining Learning for Distributed Energy Hub Economic Dispatch. <i>IEEE Access</i> , 2018 , 6, 39564-39573	3.5	5
14	Levenberg-Marquardt backpropagation algorithm for parameter identification of solid oxide fuel cells. <i>International Journal of Energy Research</i> , 2021 , 45, 17903-17923	4.5	5
13	Ensemble learning for optimal active power control of distributed energy resources and thermostatically controlled loads in an islanded microgrid. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22474-22486	6.7	5

12	Adaptive Consensus Algorithm for Distributed Heat-Electricity Energy Management of an Islanded Microgrid. <i>Energies</i> , 2018 , 11, 2236	3.1	4
11	Adaptive rapid neural optimization: A data-driven approach to MPPT for centralized TEG systems. <i>Electric Power Systems Research</i> , 2021 , 199, 107426	3.5	4
10	A Multiagent Competitive Bidding Strategy in a Pool-Based Electricity Market With Price-Maker Participants of WPPs and EV Aggregators. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7256-7268	11.9	4
9	Extreme learning machine based meta-heuristic algorithms for parameter extraction of solid oxide fuel cells. <i>Applied Energy</i> , 2021 , 303, 117630	10.7	4
8	Distributed deep reinforcement learning for integrated generation-control and power-dispatch of interconnected power grid with various renewable units. <i>IET Renewable Power Generation</i> ,	2.9	3
7	Multi-timescale and multi-objective power dispatch strategy incorporating air pollutant temporal and spatial distribution control. <i>Journal of Cleaner Production</i> , 2020 , 253, 119453	10.3	2
6	Point estimate-based stochastic robust dispatch for electricity-gas combined system under wind uncertainty using iterative convex optimization. <i>Energy</i> , 2020 , 211, 118986	7.9	2
5	A Random Forest-Assisted Fast Distributed Auction-Based Algorithm for Hierarchical Coordinated Power Control in a Large-Scale PV Power Plant. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 2471-2481	8.2	2
4	Multi-Searcher Optimization for the Optimal Energy Dispatch of Combined Heat and Power-Thermal-Wind-Photovoltaic Systems. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 537	2.6	1
3	Multi-agent Learning based Nearly Non-iterative Stochastic Dynamic Transactive Energy Control of Networked Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
2	Interacted collective intelligence based energy harvesting of centralized thermoelectric generation systems under non-uniform temperature gradient. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 48, 101600	4.7	0
1	An efficient multi-agent negotiation algorithm for multi-period photovoltaic array reconfiguration with a hydrogen energy storage system. <i>Energy Conversion and Management</i> , 2022 , 256, 115376	10.6	0