

Hak-Man Kim

List of Publications by Year in Descending Order

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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.

75
papers

1,696
citations

22
h-index

39
g-index

81
ext. papers

2,218
ext. citations

4.3
avg, IF

5.96
L-index

#	Paper	IF	Citations
75	Optimized User-Friendly Transaction Time Management in the Blockchain Distributed Energy Market. <i>IEEE Access</i> , 2022 , 10, 34731-34742	3.5	0
74	Adopting the Game Theory Approach in the Blockchain-Driven Pricing Optimization of Standalone Distributed Energy Generations. <i>IEEE Access</i> , 2022 , 10, 47154-47168	3.5	
73	Deep reinforcement learning-based operation of fast charging stations coupled with energy storage system. <i>Electric Power Systems Research</i> , 2022 , 210, 108087	3.5	1
72	Multiagent-Based Distributed Coordination of Inverter-Based Resources for Optimal Operation of Microgrids Considering Communication Failures. <i>Energies</i> , 2022 , 15, 3736	3.1	0
71	Evaluation of Multi-Objective Optimization Techniques for Resilience Enhancement of Electric Vehicles. <i>Electronics (Switzerland)</i> , 2021 , 10, 3030	2.6	2
70	Optimal Operation of Networked Microgrids for Enhancing Resilience Using Mobile Electric Vehicles. <i>Energies</i> , 2021 , 14, 142	3.1	8
69	Simplified Floating Wind Turbine for Real-Time Simulation of Large-Scale Floating Offshore Wind Farms. <i>Energies</i> , 2021 , 14, 4571	3.1	4
68	EV Prioritization and Power Allocation During Outages: A Lexicographic Method-Based Multiobjective Optimization Approach. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2474-2487	7.6	10
67	Multi-Objective Stochastic Optimization for Determining Set-Point of Wind Farm System. <i>Sustainability</i> , 2021 , 13, 624	3.6	3
66	Cluster-Based Predictive PCC Voltage Control of Large-Scale Offshore Wind Farm. <i>IEEE Access</i> , 2021 , 9, 4630-4641	3.5	2
65	Impacts of a LVRT Control Strategy of Offshore Wind Farms on the HTS Power Cable. <i>Energies</i> , 2020 , 13, 1194	3.1	2
64	Optimal Sizing of Battery Energy Storage System in a Fast EV Charging Station Considering Power Outages. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 453-463	7.6	37
63	Distributed Operation of Microgrids Considering Secondary Frequency Restoration Based on the Diffusion Algorithm. <i>Energies</i> , 2020 , 13, 3207	3.1	0
62	Consensus Algorithm-Based Distributed Operation of Microgrids During Grid-Connected and Islanded Modes. <i>IEEE Access</i> , 2020 , 8, 78151-78165	3.5	6
61	Fault Analysis and Design of a Protection System for a Mesh Power System with a Co-Axial HTS Power Cable. <i>Energies</i> , 2020 , 13, 220	3.1	2
60	Stationary Energy Storage System for Fast EV Charging Stations: Optimality Analysis and Results Validation. <i>Energies</i> , 2020 , 13, 230	3.1	7
59	Goal-Programming-Based Multi-Objective Optimization in Off-Grid Microgrids. <i>Sustainability</i> , 2020 , 12, 8119	3.6	6

58	Distributed Operation of Wind Farm for Maximizing Output Power: A Multi-Agent Deep Reinforcement Learning Approach. <i>IEEE Access</i> , 2020 , 8, 173136-173146	3.5	3
57	Leader-Following Diffusion-Based Reactive Power Coordination and Voltage Control of Offshore Wind Farm. <i>IEEE Access</i> , 2020 , 8, 149555-149568	3.5	1
56	Consensus-Based Distributed Coordination Control of Hybrid AC/DC Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 629-639	8.2	44
55	. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2268-2279	11.9	17
54	. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 457-469	10.7	64
53	Impact Analysis of Survivability-Oriented Demand Response on Islanded Operation of Networked Microgrids with High Penetration of Renewables. <i>Energies</i> , 2019 , 12, 452	3.1	12
52	A Simplified Model of Coaxial, Multilayer High-Temperature Superconducting Power Cables with Cu Formers for Transient Studies. <i>Energies</i> , 2019 , 12, 1514	3.1	11
51	Q-Learning-Based Operation Strategy for Community Battery Energy Storage System (CBESS) in Microgrid System. <i>Energies</i> , 2019 , 12, 1789	3.1	15
50	An Energy Management System With Optimum Reserve Power Procurement Function for Microgrid Resilience Improvement. <i>IEEE Access</i> , 2019 , 7, 42577-42585	3.5	23
49	An internal trading strategy for optimal energy management of combined cooling, heat and power in building microgrids. <i>Applied Energy</i> , 2019 , 239, 536-548	10.7	40
48	Transfverter: Imbuing Transformer-Like Properties in an Interlink Converter for Robust Control of a Hybrid ACDC Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11332-11341	7.2	11
47	Diffusion-Based Distributed Coordination Control of Power Converters in MG for Efficiency Improvement. <i>IEEE Access</i> , 2019 , 7, 53347-53357	3.5	1
46	Optimal Operation of Wind Farm for Reducing Power Deviation Considering Grid-Code Constraints and Events. <i>IEEE Access</i> , 2019 , 7, 139058-139068	3.5	7
45	The effectiveness of group combined intervention using animal-assisted therapy and integrated elderly play therapy. <i>Journal of Animal Science and Technology</i> , 2019 , 61, 371-378	1.6	4
44	Microgrids as a resilience resource and strategies used by microgrids for enhancing resilience. <i>Applied Energy</i> , 2019 , 240, 56-72	10.7	171
43	Welfare Maximization-Based Distributed Demand Response for Islanded Multi-Microgrid Networks Using Diffusion Strategy. <i>Energies</i> , 2019 , 12, 3701	3.1	7
42	Multi-Objective Optimization for Determining Trade-Off between Output Power and Power Fluctuations in Wind Farm System. <i>Energies</i> , 2019 , 12, 4242	3.1	4
41	Hybrid Energy Management System for Operation of Wind Farm System Considering Grid-Code Constraints. <i>Energies</i> , 2019 , 12, 4672	3.1	2

40	Stationary Energy Storage System for Fast EV Charging Stations: Simultaneous Sizing of Battery and Converter. <i>Energies</i> , 2019 , 12, 4516	3.1	13
39	Limitations in Energy Management Systems: A Case Study for Resilient Interconnected Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5675-5685	10.7	11
38	Impact of Uncertainties on Resilient Operation of Microgrids: A Data-Driven Approach. <i>IEEE Access</i> , 2019 , 7, 14924-14937	3.5	36
37	. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 204-215	10.7	77
36	. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3474-3485	10.7	14
35	Robust Optimal Operation of AC/DC Hybrid Microgrids Under Market Price Uncertainties. <i>IEEE Access</i> , 2018 , 6, 2654-2667	3.5	55
34	. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1636-1647	8.2	15
33	Avoiding Frequency Second Dip in Power Unreserved Control During Wind Power Rotational Speed Recovery. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3097-3106	7	31
32	A Multiagent-Based Hierarchical Energy Management Strategy for Multi-Microgrids Considering Adjustable Power and Demand Response. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 1323-1333	10.7	177
31	A Resilient and Privacy-Preserving Energy Management Strategy for Networked Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2127-2139	10.7	115
30	A Droop Frequency Control for Maintaining Different Frequency Qualities in a Stand-Alone Multimicrogrid System. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 599-609	8.2	20
29	Impact of Demand Response Programs on Optimal Operation of Multi-Microgrid System. <i>Energies</i> , 2018 , 11, 1452	3.1	24
28	Optimal Energy Management of Building Microgrid Networks in Islanded Mode Considering Adjustable Power and Component Outages. <i>Energies</i> , 2018 , 11, 2351	3.1	7
27	Consensus-Based SOC Balancing of Battery Energy Storage Systems in Wind Farm. <i>Energies</i> , 2018 , 11, 3507	3.1	4
26	Adaptive Robust Optimization-Based Optimal Operation of Microgrids Considering Uncertainties in Arrival and Departure Times of Electric Vehicles. <i>Energies</i> , 2018 , 11, 2646	3.1	12
25	A Proactive and Survivability-Constrained Operation Strategy for Enhancing Resilience of Microgrids Using Energy Storage System. <i>IEEE Access</i> , 2018 , 6, 75495-75507	3.5	42
24	A Multi-Agent System-Based Approach for Optimal Operation of Building Microgrids with Rooftop Greenhouse. <i>Energies</i> , 2018 , 11, 1876	3.1	6
23	Direct Phase Angle and Voltage Amplitude Model Predictive Control of a Power Converter for Microgrid Applications. <i>Energies</i> , 2018 , 11, 2254	3.1	1

22	Improving Transient Response of Power Converter in a Stand-Alone Microgrid Using Virtual Synchronous Generator. <i>Energies</i> , 2018 , 11, 27	3.1	11
21	Optimal operation of hybrid microgrids for enhancing resiliency considering feasible islanding and survivability. <i>IET Renewable Power Generation</i> , 2017 , 11, 846-857	2.9	60
20	An Energy-Based Control Strategy for Battery Energy Storage Systems: A Case Study on Microgrid Applications. <i>Energies</i> , 2017 , 10, 215	3.1	5
19	Robustness Improvement of Superconducting Magnetic Energy Storage System in Microgrids Using an Energy Shaping Passivity-Based Control Strategy. <i>Energies</i> , 2017 , 10, 671	3.1	14
18	Multi-Frequency Control in a Stand-Alone Multi-Microgrid System Using a Back-To-Back Converter. <i>Energies</i> , 2017 , 10, 822	3.1	18
17	Optimal Operation of Microgrids Considering Auto-Configuration Function Using Multiagent System. <i>Energies</i> , 2017 , 10, 1484	3.1	23
16	Fuzzy Logic-Based Operation of Battery Energy Storage Systems (BESSs) for Enhancing the Resiliency of Hybrid Microgrids. <i>Energies</i> , 2017 , 10, 271	3.1	27
15	Analyzing the Impacts of System Parameters on MPC-Based Frequency Control for a Stand-Alone Microgrid. <i>Energies</i> , 2017 , 10, 417	3.1	17
14	Optimal Energy Management of Combined Cooling, Heat and Power in Different Demand Type Buildings Considering Seasonal Demand Variations. <i>Energies</i> , 2017 , 10, 789	3.1	20
13	Impact Analysis of Demand Response Intensity and Energy Storage Size on Operation of Networked Microgrids. <i>Energies</i> , 2017 , 10, 882	3.1	12
12	Diffusion Strategy-Based Distributed Operation of Microgrids Using Multiagent System. <i>Energies</i> , 2017 , 10, 903	3.1	16
11	A Novel Topology of Hybrid HVDC Circuit Breaker for VSC-HVDC Application. <i>Energies</i> , 2017 , 10, 1675	3.1	9
10	Optimal Operation of Tri-Generation Microgrids Considering Demand Uncertainties. <i>International Journal of Smart Home</i> , 2016 , 10, 131-144	0	9
9	Robust Optimization-Based Scheduling of Multi-Microgrids Considering Uncertainties. <i>Energies</i> , 2016 , 9, 278	3.1	63
8	Optimal Electric and Heat Energy Management of Multi-Microgrids with Sequentially-Coordinated Operations. <i>Energies</i> , 2016 , 9, 473	3.1	9
7	A Flywheel Energy Storage System Based on a Doubly Fed Induction Machine and Battery for Microgrid Control. <i>Energies</i> , 2015 , 8, 5074-5089	3.1	17
6	Optimal Energy Management of Multi-Microgrids with Sequentially Coordinated Operations. <i>Energies</i> , 2015 , 8, 8371-8390	3.1	42
5	Application of Model Predictive Control to BESS for Microgrid Control. <i>Energies</i> , 2015 , 8, 8798-8813	3.1	19

4	Distributed Load-Shedding System for Agent-Based Autonomous Microgrid Operations. <i>Energies</i> , 2014 , 7, 385-401	3.1	34
3	An Intelligent Multiagent System for Autonomous Microgrid Operation. <i>Energies</i> , 2012 , 5, 3347-3362	3.1	54
2	Talmudic Approach to Load Shedding of Islanded Microgrid Operation Based on Multiagent System. <i>Journal of Electrical Engineering and Technology</i> , 2011 , 6, 284-292	1.4	25
1	An Algorithm to Enhance the Profit Margin of Electric Vehicle Owners and Resilience of Multi-microgrid Using EV. <i>Journal of Electrical Engineering and Technology</i> , 1	1.4	1