Hak-Man Kim

List of Publications by Citations

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	A Multiagent-Based Hierarchical Energy Management Strategy for Multi-Microgrids Considering Adjustable Power and Demand Response. *IEEE Transactions on Smart Grid*, **2018**, 9, 1323-1333	10.7	177
74	Microgrids as a resilience resource and strategies used by microgrids for enhancing resilience. *Applied Energy*, **2019**, 240, 56-72	10.7	171
73	A Resilient and Privacy-Preserving Energy Management Strategy for Networked Microgrids. *IEEE Transactions on Smart Grid*, **2018**, 9, 2127-2139	10.7	115
72	. *IEEE Transactions on Smart Grid*, **2019**, 10, 204-215	10.7	77
71	. *IEEE Transactions on Smart Grid*, **2020**, 11, 457-469	10.7	64
70	Robust Optimization-Based Scheduling of Multi-Microgrids Considering Uncertainties. *Energies*, **2016**, 9, 278	3.1	63
69	Optimal operation of hybrid microgrids for enhancing resiliency considering feasible islanding and survivability. *IET Renewable Power Generation*, **2017**, 11, 846-857	2.9	60
68	Robust Optimal Operation of AC/DC Hybrid Microgrids Under Market Price Uncertainties. *IEEE Access*, **2018**, 6, 2654-2667	3.5	55
67	An Intelligent Multiagent System for Autonomous Microgrid Operation. *Energies*, **2012**, 5, 3347-3362	3.1	54
66	Consensus-Based Distributed Coordination Control of Hybrid AC/DC Microgrids. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 629-639	8.2	44
65	Optimal Energy Management of Multi-Microgrids with Sequentially Coordinated Operations. *Energies*, **2015**, 8, 8371-8390	3.1	42
64	A Proactive and Survivability-Constrained Operation Strategy for Enhancing Resilience of Microgrids Using Energy Storage System. *IEEE Access*, **2018**, 6, 75495-75507	3.5	42
63	An internal trading strategy for optimal energy management of combined cooling, heat and power in building microgrids. *Applied Energy*, **2019**, 239, 536-548	10.7	40
62	Optimal Sizing of Battery Energy Storage System in a Fast EV Charging Station Considering Power Outages. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 453-463	7.6	37
61	Impact of Uncertainties on Resilient Operation of Microgrids: A Data-Driven Approach. *IEEE Access*, **2019**, 7, 14924-14937	3.5	36
60	Distributed Load-Shedding System for Agent-Based Autonomous Microgrid Operations. *Energies*, **2014**, 7, 385-401	3.1	34
59	Avoiding Frequency Second Dip in Power Unreserved Control During Wind Power Rotational Speed Recovery. *IEEE Transactions on Power Systems*, **2018**, 33, 3097-3106	7	31

58	Fuzzy Logic-Based Operation of Battery Energy Storage Systems (BESSs) for Enhancing the Resiliency of Hybrid Microgrids. *Energies*, **2017**, 10, 271	3.1	27
57	Talmudic Approach to Load Shedding of Islanded Microgrid Operation Based on Multiagent System. *Journal of Electrical Engineering and Technology*, **2011**, 6, 284-292	1.4	25
56	Impact of Demand Response Programs on Optimal Operation of Multi-Microgrid System. *Energies*, **2018**, 11, 1452	3.1	24
55	An Energy Management System With Optimum Reserve Power Procurement Function for Microgrid Resilience Improvement. *IEEE Access*, **2019**, 7, 42577-42585	3.5	23
54	Optimal Operation of Microgrids Considering Auto-Configuration Function Using Multiagent System. *Energies*, **2017**, 10, 1484	3.1	23
53	A Droop Frequency Control for Maintaining Different Frequency Qualities in a Stand-Alone Multimicrogrid System. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 599-609	8.2	20
52	Optimal Energy Management of Combined Cooling, Heat and Power in Different Demand Type Buildings Considering Seasonal Demand Variations. *Energies*, **2017**, 10, 789	3.1	20
51	Application of Model Predictive Control to BESS for Microgrid Control. *Energies*, **2015**, 8, 8798-8813	3.1	19
50	Multi-Frequency Control in a Stand-Alone Multi-Microgrid System Using a Back-To-Back Converter. *Energies*, **2017**, 10, 822	3.1	18
49	Analyzing the Impacts of System Parameters on MPC-Based Frequency Control for a Stand-Alone Microgrid. *Energies*, **2017**, 10, 417	3.1	17
48	A Flywheel Energy Storage System Based on a Doubly Fed Induction Machine and Battery for Microgrid Control. *Energies*, **2015**, 8, 5074-5089	3.1	17
47	. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2268-2279	11.9	17
46	Diffusion Strategy-Based Distributed Operation of Microgrids Using Multiagent System. *Energies*, **2017**, 10, 903	3.1	16
45	Q-Learning-Based Operation Strategy for Community Battery Energy Storage System (CBESS) in Microgrid System. *Energies*, **2019**, 12, 1789	3.1	15
44	. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1636-1647	8.2	15
43	Robustness Improvement of Superconducting Magnetic Energy Storage System in Microgrids Using an Energy Shaping Passivity-Based Control Strategy. *Energies*, **2017**, 10, 671	3.1	14
42	. *IEEE Transactions on Smart Grid*, **2019**, 10, 3474-3485	10.7	14
41	Stationary Energy Storage System for Fast EV Charging Stations: Simultaneous Sizing of Battery and Converter. *Energies*, **2019**, 12, 4516	3.1	13

40	Impact Analysis of Survivability-Oriented Demand Response on Islanded Operation of Networked Microgrids with High Penetration of Renewables. *Energies*, **2019**, 12, 452	3.1	12
39	Impact Analysis of Demand Response Intensity and Energy Storage Size on Operation of Networked Microgrids. *Energies*, **2017**, 10, 882	3.1	12
38	Adaptive Robust Optimization-Based Optimal Operation of Microgrids Considering Uncertainties in Arrival and Departure Times of Electric Vehicles. *Energies*, **2018**, 11, 2646	3.1	12
37	A Simplified Model of Coaxial, Multilayer High-Temperature Superconducting Power Cables with Cu Formers for Transient Studies. *Energies*, **2019**, 12, 1514	3.1	11
36	Transfverter: Imbuing Transformer-Like Properties in an Interlink Converter for Robust Control of a Hybrid AC DC Microgrid. *IEEE Transactions on Power Electronics*, **2019**, 34, 11332-11341	7.2	11
35	Limitations in Energy Management Systems: A Case Study for Resilient Interconnected Microgrids. *IEEE Transactions on Smart Grid*, **2019**, 10, 5675-5685	10.7	11
34	Improving Transient Response of Power Converter in a Stand-Alone Microgrid Using Virtual Synchronous Generator. *Energies*, **2018**, 11, 27	3.1	11
33	EV Prioritization and Power Allocation During Outages: A Lexicographic Method-Based Multiobjective Optimization Approach. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2474-2487	7.6	10
32	A Novel Topology of Hybrid HVDC Circuit Breaker for VSC-HVDC Application. *Energies*, **2017**, 10, 1675	3.1	9
31	Optimal Operation of Tri-Generation Microgrids Considering Demand Uncertainties. *International Journal of Smart Home*, **2016**, 10, 131-144	0	9
30	Optimal Electric and Heat Energy Management of Multi-Microgrids with Sequentially-Coordinated Operations. *Energies*, **2016**, 9, 473	3.1	9
29	Optimal Operation of Networked Microgrids for Enhancing Resilience Using Mobile Electric Vehicles. *Energies*, **2021**, 14, 142	3.1	8
28	Optimal Operation of Wind Farm for Reducing Power Deviation Considering Grid-Code Constraints and Events. *IEEE Access*, **2019**, 7, 139058-139068	3.5	7
27	Stationary Energy Storage System for Fast EV Charging Stations: Optimality Analysis and Results Validation. *Energies*, **2020**, 13, 230	3.1	7
26	Welfare Maximization-Based Distributed Demand Response for Islanded Multi-Microgrid Networks Using Diffusion Strategy. *Energies*, **2019**, 12, 3701	3.1	7
25	Optimal Energy Management of Building Microgrid Networks in Islanded Mode Considering Adjustable Power and Component Outages. *Energies*, **2018**, 11, 2351	3.1	7
24	Consensus Algorithm-Based Distributed Operation of Microgrids During Grid-Connected and Islanded Modes. *IEEE Access*, **2020**, 8, 78151-78165	3.5	6
23	Goal-Programming-Based Multi-Objective Optimization in Off-Grid Microgrids. *Sustainability*, **2020**, 12, 8119	3.6	6

22	A Multi-Agent System-Based Approach for Optimal Operation of Building Microgrids with Rooftop Greenhouse. *Energies*, **2018**, 11, 1876	3.1	6
21	An Energy-Based Control Strategy for Battery Energy Storage Systems: A Case Study on Microgrid Applications. *Energies*, **2017**, 10, 215	3.1	5
20	The effectiveness of group combined intervention using animal-assisted therapy and integrated elderly play therapy. *Journal of Animal Science and Technology*, **2019**, 61, 371-378	1.6	4
19	Simplified Floating Wind Turbine for Real-Time Simulation of Large-Scale Floating Offshore Wind Farms. *Energies*, **2021**, 14, 4571	3.1	4
18	Multi-Objective Optimization for Determining Trade-Off between Output Power and Power Fluctuations in Wind Farm System. *Energies*, **2019**, 12, 4242	3.1	4
17	Consensus-Based SOC Balancing of Battery Energy Storage Systems in Wind Farm. *Energies*, **2018**, 11, 3507	3.1	4
16	Distributed Operation of Wind Farm for Maximizing Output Power: A Multi-Agent Deep Reinforcement Learning Approach. *IEEE Access*, **2020**, 8, 173136-173146	3.5	3
15	Multi-Objective Stochastic Optimization for Determining Set-Point of Wind Farm System. *Sustainability*, **2021**, 13, 624	3.6	3
14	Impacts of a LVRT Control Strategy of Offshore Wind Farms on the HTS Power Cable. *Energies*, **2020**, 13, 1194	3.1	2
13	Evaluation of Multi-Objective Optimization Techniques for Resilience Enhancement of Electric Vehicles. *Electronics (Switzerland)*, **2021**, 10, 3030	2.6	2
12	Fault Analysis and Design of a Protection System for a Mesh Power System with a Co-Axial HTS Power Cable. *Energies*, **2020**, 13, 220	3.1	2
11	Hybrid Energy Management System for Operation of Wind Farm System Considering Grid-Code Constraints. *Energies*, **2019**, 12, 4672	3.1	2
10	Cluster-Based Predictive PCC Voltage Control of Large-Scale Offshore Wind Farm. *IEEE Access*, **2021**, 9, 4630-4641	3.5	2
9	Diffusion-Based Distributed Coordination Control of Power Converters in MG for Efficiency Improvement. *IEEE Access*, **2019**, 7, 53347-53357	3.5	1
8	Leader-Following Diffusion-Based Reactive Power Coordination and Voltage Control of Offshore Wind Farm. *IEEE Access*, **2020**, 8, 149555-149568	3.5	1
7	Direct Phase Angle and Voltage Amplitude Model Predictive Control of a Power Converter for Microgrid Applications. *Energies*, **2018**, 11, 2254	3.1	1
6	An Algorithm to Enhance the Profit Margin of Electric Vehicle Owners and Resilience of Multi-microgrid Using EV. *Journal of Electrical Engineering and Technology*,1	1.4	1
5	Deep reinforcement learning-based operation of fast charging stations coupled with energy storage system. *Electric Power Systems Research*, **2022**, 210, 108087	3.5	1

4	Distributed Operation of Microgrids Considering Secondary Frequency Restoration Based on the Diffusion Algorithm. *Energies*, **2020**, 13, 3207	3.1	0
3	Optimized User-Friendly Transaction Time Management in the Blockchain Distributed Energy Market. *IEEE Access*, **2022**, 10, 34731-34742	3.5	0
2	Multiagent-Based Distributed Coordination of Inverter-Based Resources for Optimal Operation of Microgrids Considering Communication Failures. *Energies*, **2022**, 15, 3736	3.1	0
1	Adopting the Game Theory Approach in the Blockchain-Driven Pricing Optimization of Standalone Distributed Energy Generations. *IEEE Access*, **2022**, 10, 47154-47168	3.5	