

# Hak-Man Kim

## List of Publications by Year in descending order

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81  
papers

2,758  
citations

201658

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81  
docs citations

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times ranked

2383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microgrids as a resilience resource and strategies used by microgrids for enhancing resilience. Applied Energy, 2019, 240, 56-72.	10.1	318
2	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.	9.0	282
3	A Resilient and Privacy-Preserving Energy Management Strategy for Networked Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2127-2139.	9.0	176
4	Double Deep Q\$ -Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. IEEE Transactions on Smart Grid, 2020, 11, 457-469.	9.0	155
5	Resilience-Oriented Optimal Operation of Networked Hybrid Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 204-215.	9.0	103
6	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.	7.8	103
7	Robust Optimization-Based Scheduling of Multi-Microgrids Considering Uncertainties. Energies, 2016, 9, 278.	3.1	81
8	Consensus-Based Distributed Coordination Control of Hybrid AC/DC Microgrids. IEEE Transactions on Sustainable Energy, 2020, 11, 629-639.	8.8	80
9	Optimal operation of hybrid microgrids for enhancing resiliency considering feasible islanding and survivability. IET Renewable Power Generation, 2017, 11, 846-857.	3.1	74
10	Avoiding Frequency Second Dip in Power Unreserved Control During Wind Power Rotational Speed Recovery. IEEE Transactions on Power Systems, 2018, 33, 3097-3106.	6.5	72
11	Robust Optimal Operation of AC/DC Hybrid Microgrids Under Market Price Uncertainties. IEEE Access, 2018, 6, 2654-2667.	4.2	69
12	An Intelligent Multiagent System for Autonomous Microgrid Operation. Energies, 2012, 5, 3347-3362.	3.1	63
13	A Proactive and Survivability-Constrained Operation Strategy for Enhancing Resilience of Microgrids Using Energy Storage System. IEEE Access, 2018, 6, 75495-75507.	4.2	56
14	An internal trading strategy for optimal energy management of combined cooling, heat and power in building microgrids. Applied Energy, 2019, 239, 536-548.	10.1	55
15	Optimal Energy Management of Multi-Microgrids with Sequentially Coordinated Operations. Energies, 2015, 8, 8371-8390.	3.1	54
16	Impact of Uncertainties on Resilient Operation of Microgrids: A Data-Driven Approach. IEEE Access, 2019, 7, 14924-14937.	4.2	50
17	Distributed Load-Shedding System for Agent-Based Autonomous Microgrid Operations. Energies, 2014, 7, 385-401.	3.1	39
18	Multi-Frequency Control in a Stand-Alone Multi-Microgrid System Using a Back-To-Back Converter. Energies, 2017, 10, 822.	3.1	38

#	ARTICLE	IF	CITATIONS
19	Application of Model Predictive Control to BESS for Microgrid Control. <i>Energies</i> , 2015, 8, 8798-8813.	3.1	36
20	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.	2.0	36
21	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.	8.8	34
22	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	33
23	Impact of Demand Response Programs on Optimal Operation of Multi-Microgrid System. <i>Energies</i> , 2018, 11, 1452.	3.1	33
24	An Energy Management System With Optimum Reserve Power Procurement Function for Microgrid Resilience Improvement. <i>IEEE Access</i> , 2019, 7, 42577-42585.	4.2	33
25	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	30
26	An Effort-Based Reward Approach for Allocating Load Shedding Amount in Networked Microgrids Using Multiagent System. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 2268-2279.	11.3	30
27	Optimal Operation of Greenhouses in Microgrids Perspective. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 3474-3485.	9.0	29
28	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	27
29	Q-Learning-Based Operation Strategy for Community Battery Energy Storage System (CBESS) in Microgrid System. <i>Energies</i> , 2019, 12, 1789.	3.1	27
30	Optimal Operation of Microgrids Considering Auto-Configuration Function Using Multiagent System. <i>Energies</i> , 2017, 10, 1484.	3.1	26
31	Analyzing the Impacts of System Parameters on MPC-Based Frequency Control for a Stand-Alone Microgrid. <i>Energies</i> , 2017, 10, 417.	3.1	24
32	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.	7.8	24
33	Optimal Operation of Networked Microgrids for Enhancing Resilience Using Mobile Electric Vehicles. <i>Energies</i> , 2021, 14, 142.	3.1	23
34	A Strategy for Flexible Frequency Operation of Stand-Alone Multimicrogrids. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 1636-1647.	8.8	22
35	Limitations in Energy Management Systems: A Case Study for Resilient Interconnected Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 5675-5685.	9.0	22
36	Diffusion Strategy-Based Distributed Operation of Microgrids Using Multiagent System. <i>Energies</i> , 2017, 10, 903.	3.1	21

#	ARTICLE	IF	CITATIONS
37	Stationary Energy Storage System for Fast EV Charging Stations: Simultaneous Sizing of Battery and Converter. <i>Energies</i> , 2019, 12, 4516.	3.1	21
38	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	19
39	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	19
40	Impact Analysis of Demand Response Intensity and Energy Storage Size on Operation of Networked Microgrids. <i>Energies</i> , 2017, 10, 882.	3.1	17
41	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	17
42	Improving Transient Response of Power Converter in a Stand-Alone Microgrid Using Virtual Synchronous Generator. <i>Energies</i> , 2018, 11, 27.	3.1	17
43	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	16
44	A Novel Topology of Hybrid HVDC Circuit Breaker for VSC-HVDC Application. <i>Energies</i> , 2017, 10, 1675.	3.1	15
45	Transferter: Imbuing Transformer-Like Properties in an Interlink Converter for Robust Control of a Hybrid AC-DC Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 11332-11341.	7.9	15
46	Distributed Operation of Wind Farm for Maximizing Output Power: A Multi-Agent Deep Reinforcement Learning Approach. <i>IEEE Access</i> , 2020, 8, 173136-173146.	4.2	15
47	Consensus Algorithm-Based Distributed Operation of Microgrids During Grid-Connected and Islanded Modes. <i>IEEE Access</i> , 2020, 8, 78151-78165.	4.2	14
48	Optimal Electric and Heat Energy Management of Multi-Microgrids with Sequentially-Coordinated Operations. <i>Energies</i> , 2016, 9, 473.	3.1	11
49	Welfare Maximization-Based Distributed Demand Response for Islanded Multi-Microgrid Networks Using Diffusion Strategy. <i>Energies</i> , 2019, 12, 3701.	3.1	11
50	Goal-Programming-Based Multi-Objective Optimization in Off-Grid Microgrids. <i>Sustainability</i> , 2020, 12, 8119.	3.2	11
51	Stationary Energy Storage System for Fast EV Charging Stations: Optimality Analysis and Results Validation. <i>Energies</i> , 2020, 13, 230.	3.1	11
52	Simplified Floating Wind Turbine for Real-Time Simulation of Large-Scale Floating Offshore Wind Farms. <i>Energies</i> , 2021, 14, 4571.	3.1	10
53	Cluster-Based Predictive PCC Voltage Control of Large-Scale Offshore Wind Farm. <i>IEEE Access</i> , 2021, 9, 4630-4641.	4.2	10
54	Optimal Operation of Wind Farm for Reducing Power Deviation Considering Grid-Code Constraints and Events. <i>IEEE Access</i> , 2019, 7, 139058-139068.	4.2	9

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55	Optimal Operation of Tri-Generation Microgrids Considering Demand Uncertainties. International Journal of Smart Home, 2016, 10, 131-144.	0.4	9
56	A Multi-Agent System-Based Approach for Optimal Operation of Building Microgrids with Rooftop Greenhouse. Energies, 2018, 11, 1876.	3.1	8
57	Evaluation of Multi-Objective Optimization Techniques for Resilience Enhancement of Electric Vehicles. Electronics (Switzerland), 2021, 10, 3030.	3.1	8
58	Optimized User-Friendly Transaction Time Management in the Blockchain Distributed Energy Market. IEEE Access, 2022, 10, 34731-34742.	4.2	8
59	Optimal Energy Management of Building Microgrid Networks in Islanded Mode Considering Adjustable Power and Component Outages. Energies, 2018, 11, 2351.	3.1	7
60	Deep reinforcement learning-based operation of fast charging stations coupled with energy storage system. Electric Power Systems Research, 2022, 210, 108087.	3.6	7
61	Optimal operation of static energy storage in fast-charging stations considering the trade-off between resilience and peak shaving. Journal of Energy Storage, 2022, 53, 105197.	8.1	7
62	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	6
63	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.	2.5	6
64	An Energy-Based Control Strategy for Battery Energy Storage Systems: A Case Study on Microgrid Applications. Energies, 2017, 10, 215.	3.1	5
65	Consensus-Based SOC Balancing of Battery Energy Storage Systems in Wind Farm. Energies, 2018, 11, 3507.	3.1	5
66	Impacts of a LVRT Control Strategy of Offshore Wind Farms on the HTS Power Cable. Energies, 2020, 13, 1194.	3.1	5
67	An Algorithm to Enhance the Profit Margin of Electric Vehicle Owners and Resilience of Multi-microgrid Using EV. Journal of Electrical Engineering and Technology, 2022, 17, 2161-2169.	2.0	5
68	Multi-Objective Optimization for Determining Trade-Off between Output Power and Power Fluctuations in Wind Farm System. Energies, 2019, 12, 4242.	3.1	4
69	Leader-Following Diffusion-Based Reactive Power Coordination and Voltage Control of Offshore Wind Farm. IEEE Access, 2020, 8, 149555-149568.	4.2	4
70	Multi-Objective Stochastic Optimization for Determining Set-Point of Wind Farm System. Sustainability, 2021, 13, 624.	3.2	4
71	Adopting the Game Theory Approach in the Blockchain-Driven Pricing Optimization of Standalone Distributed Energy Generations. IEEE Access, 2022, 10, 47154-47168.	4.2	4
72	Impact Quantification of Demand Response Uncertainty on Unit Commitment of Microgrids. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
73	Direct Phase Angle and Voltage Amplitude Model Predictive Control of a Power Converter for Microgrid Applications. <i>Energies</i> , 2018, 11, 2254.	3.1	3
74	Multiagent-Based Distributed Coordination of Inverter-Based Resources for Optimal Operation of Microgrids Considering Communication Failures. <i>Energies</i> , 2022, 15, 3736.	3.1	3
75	Optimal microgrid operation considering auto-configuration in islanded mode. , 2016, , .		2
76	Diffusion Strategy-Based Distributed Optimization for Operation of Multi-Microgrid System. , 2018, , .		2
77	Diffusion-Based Distributed Coordination Control of Power Converters in MG for Efficiency Improvement. <i>IEEE Access</i> , 2019, 7, 53347-53357.	4.2	2
78	Hybrid Energy Management System for Operation of Wind Farm System Considering Grid-Code Constraints. <i>Energies</i> , 2019, 12, 4672.	3.1	2
79	Distributed Operation of Microgrids Considering Secondary Frequency Restoration Based on the Diffusion Algorithm. <i>Energies</i> , 2020, 13, 3207.	3.1	2
80	Demand Response for Enhancing Survivability of Microgrids During Islanded Operation. , 2018, , .		1
81	Real-time optimization for microgrid operation based on auto-configuration in grid-connected mode. , 2016, , .		0