Jingang Lai

List of Publications by Year
in descending order

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Version: 2024-02-01

68 papers	2,380 citations	257450 24 h-index	206112 48 g-index
68 all docs	68 docs citations	68 times ranked	1636 citing authors

#	Article	IF	Citations
1	Droop-Based Distributed Cooperative Control for Microgrids With Time-Varying Delays. IEEE Transactions on Smart Grid, 2016, 7, 1775-1789.	9.0	268
2	Distributed Secondary Voltage and Frequency Control for Islanded Microgrids With Uncertain Communication Links. IEEE Transactions on Industrial Informatics, 2017, 13, 448-460.	11.3	233
3	A Novel Distributed Secondary Coordination Control Approach for Islanded Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2726-2740.	9.0	169
4	Smart Householdsâ€™ Aggregated Capacity Forecasting for Load Aggregators Under Incentive-Based Demand Response Programs. IEEE Transactions on Industry Applications, 2020, 56, 1086-1097.	4.9	147
5	Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. IEEE Transactions on Smart Grid, 2020, 11, 2746-2759.	9.0	114
6	A novel optimal energy-management strategy for a maritime hybrid energy system based on large-scale global optimization. Applied Energy, 2018, 228, 254-264.	10.1	109
7	Distributed Multi-DER Cooperative Control for Master-Slave-Organized Microgrid Networks With Limited Communication Bandwidth. IEEE Transactions on Industrial Informatics, 2019, 15, 3443-3456.	11.3	105
8	Cluster-Oriented Distributed Cooperative Control for Multiple AC Microgrids. IEEE Transactions on Industrial Informatics, 2019, 15, 5906-5918.	11.3	104
9	Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 100-110.	9.3	80
10	Broadcast Gossip Algorithms for Distributed Peer-to-Peer Control in AC Microgrids. IEEE Transactions on Industry Applications, 2019, 55, 2241-2251.	4.9	72
11	Nonlinear Mean-Square Power Sharing Control for AC Microgrids Under Distributed Event Detection. IEEE Transactions on Industrial Informatics, 2021, 17, 219-229.	11.3	61
12	Stochastic Distributed Frequency and Load Sharing Control for Microgrids With Communication Delays. IEEE Systems Journal, 2019, 13, 4269-4280.	4.6	54
13	Finite-Time Control for Robust Tracking Consensus in MASs With an Uncertain Leader. IEEE Transactions on Cybernetics, 2017, 47, 1210-1223.	9.5	49
14	Distributed impulsive control for islanded microgrids with variable communication delays. IET Control Theory and Applications, 2016, 10, 1732-1739.	2.1	48
15	Optimal Bidding Strategy of DER Aggregator Considering Dual Uncertainty via Information Gap Decision Theory. IEEE Transactions on Industry Applications, 2021, 57, 158-169.	4.9	46
16	Optimal Bidding Strategy of Demand Response Aggregator Based On Customersâ€™ Responsiveness Behaviors Modeling Under Different Incentives. IEEE Transactions on Industry Applications, 2021, 57, 3329-3340.	4.9	46
17	A Novel Secondary Power Management Strategy for Multiple AC Microgrids With Cluster-Oriented Two-Layer Cooperative Framework. IEEE Transactions on Industrial Informatics, 2021, 17, 1483-1495.	11.3	43
18	Distributed power control for DERs based on networked multiagent systems with communication delays. Neurocomputing, 2016, 179, 135-143.	5.9	39

#	Article	IF	Citations
19	Distributed Multiagent-Oriented Average Control for Voltage Restoration and Reactive Power Sharing of Autonomous Microgrids. IEEE Access, 2018, 6, 25551-25561.	4.2	33
20	Affine nonlinear control for an ultra-supercritical coal fired once-through boiler-turbine unit. Energy, 2018, 153, 638-649.	8.8	33
21	Resilient Distributed Multiagent Control for AC Microgrid Networks Subject to Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 43-53.	9.3	32
22	Modeling and Decoupled Control of Inductive Power Transfer to Implement Constant Current/Voltage Charging and ZVS Operating for Electric Vehicles. IEEE Access, 2018, 6, 59917-59928.	4.2	30
23	Modular Web-Based Interactive Hybrid Laboratory Framework for Research and Education. IEEE Access, 2018, 6, 20152-20163.	4.2	26
24	Stochastic Distributed Pinning Control for Co-Multi-Inverter Networks With a Virtual Leader. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2094-2098.	3.0	26
25	Communication Constraints for Distributed Secondary Control of Heterogeneous Microgrids: A Survey. IEEE Transactions on Industry Applications, 2021, 57, 5636-5648.	4.9	25
26	Event-Driven Distributed Active and Reactive Power Dispatch for CCVSI-Based Distributed Generators in AC Microgrids. IEEE Transactions on Industry Applications, 2020, 56, 3125-3136.	4.9	24
27	Distributed Cluster Cooperation for Multiple DC MGs Over Two-Layer Switching Topologies. IEEE Transactions on Smart Grid, 2020, 11, 4676-4687.	9.0	23
28	Suppression strategy of short-term and long-term environmental disturbances for maritime photovoltaic system. Applied Energy, 2020, 259, 114183.	10.1	22
29	Natural Frequency Optimization of Wireless Power Systems on Power Transmission Lines. IEEE Access, 2018, 6, 14038-14047.	4.2	21
30	Synchronization of Hybrid Microgrids with Communication Latency. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	20
31	Delay-tolerant distributed voltage control for multiple smart loads in AC microgrids. ISA Transactions, 2019, 86, 181-191.	5.7	20
32	Distributed secondary voltage control for autonomous microgrids under additive measurement noises and time delays. IET Generation, Transmission and Distribution, 2019, 13, 2976-2985.	2.5	19
33	A Hybrid Constraints Handling Strategy for Multiconstrained Multiobjective Optimization Problem of Microgrid Economical/Environmental Dispatch. Complexity, 2017, 2017, 1-12.	1.6	18
34	Robust distributed cooperative control for DC mircogrids with time delays, noise disturbances, and switching topologies. Journal of the Franklin Institute, 2017, 354, 8312-8332.	3.4	15
35	Formation Tracking for Nonlinear Multiâ€Agent Systems with Delays and Noise Disturbance. Asian Journal of Control, 2015, 17, 879-891.	3.0	14
36	Capacitive power transfer through virtual selfâ€capacitance route. IET Power Electronics, 2018, 11, 1110-1118.	2.1	14

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37	Impact of core-periphery structure on cascading failures in interdependent scale-free networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 607-616.	2.1	14
38	A Novel Category-Specific Pricing Strategy for Demand Response in Microgrids. IEEE Transactions on Sustainable Energy, 2022, 13, 182-195.	8.8	14
39	Distributed Optimal Synchronization Rate Control for AC Microgrids Under Event-Triggered Mechanism. IEEE Transactions on Power Systems, 2021, 36, 1780-1793.	6.5	14
40	Tracking consensus of nonlinear MASs with asymmetric communication delays in noisy environments. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2334-2344.	3.3	13
41	Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. IEEE Access, 2018, 6, 70989-71002.	4.2	13
42	Robust self-consistent control of PV-battery-based microgrids without continuous communication. International Journal of Electrical Power and Energy Systems, 2020, 119, 105900.	5.5	13
43	Masterâ€“Slave Cooperation for Multi-DC-MGs via Variable Cyber Networks. IEEE Transactions on Cybernetics, 2022, 52, 8425-8438.	9.5	12
44	Bilevel Information-Aware Distributed Resilient Control for Heterogeneous Microgrid Clusters. IEEE Transactions on Industry Applications, 2021, 57, 2014-2022.	4.9	9
45	Smart Demand Response Based on Smart Homes. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	8
46	Smart Households' Available Aggregated Capacity Day-ahead Forecast Model for Load Aggregators under Incentive-based Demand Response Program. , 2019, , .		7
47	Two-Layer Cooperative Control for Multiple Converter-Network Clusters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 682-686.	3.0	7
48	Resilient Distributed Voltage Synchronization of CI Networks Under Denial of Service Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2052-2056.	3.0	7
49	Frequency Synchronization and Power Optimization for Microgrids With Battery Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2021, 29, 2247-2254.	5.2	7
50	Robustnessâ€oriented distributed cooperative control for ac microgrids under complex environments. IET Control Theory and Applications, 2019, 13, 1473-1482.	2.1	6
51	Demand-Side Energy Management: FTTH-based mode for Smart homes. , 2014, , .		5
52	Consensus-Based Distributed Event-Triggered Communication Control for AC Microgrids. , 2018, , .		5
53	A New Adaptive Fuzzy PID Control Method and Its Applicance in FCBTM. International Journal of Computers, Communications and Control, 2016, 11, 394.	1.8	5
54	Distributed voltage control for DC mircogrids with coupling delays & noisy disturbances. , 2017, , .		4

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55	Gossip-based distributed active load voltage control for low-voltage microgrids. , 2017, , .		3
56	Noise-resilient distributed frequency control for droop-controlled renewable microgrids. , 2018, , .		3
57	Networked-based distributed cooperative voltage control for power electronics interfaced microgrids. , 2016, , .		2
58	Cyber-physical aspects of hierarchical control for co-multi-microgrids in the energy Internet. , 2017, , .		2
59	Distributed Power Sharing Control for Low-voltage Microgrids Through Multiagent Networks Subject to Disturbances. , 2018, , .		1
60	A Knowledge based Multi-objective Optimization Strategy for Microgrid Environmental/Economic Scheduling problems. Energy Procedia, 2019, 158, 2942-2947.	1.8	1
61	Agent-Based Voltage Regulation Scheme for Active Distributed Networks under Distributed Quantized Communication. , 2019, , .		1
62	Distributed Event-Driven Power Sharing Control for CCVSI-Based Distributed Generators in AC Islanded Microgrids. , 2019, , .		1
63	Phase Synchronization Stability of Non-Homogeneous Low-Voltage Distribution Networks with Large-Scale Distributed Generations. Energies, 2020, 13, 1257.	3.1	1
64	Self-tubing fuzzy control for Flexible Circuit Board testing machine. , 2014, , .		0
65	A novel capacitive power system with a single coupling capacitor. , 2017, , .		0
66	Real-time implementation of affine nonlinear optimal control for SMIB system. International Journal of Industrial and Systems Engineering, 2017, 25, 182.	0.2	0
67	Finite-Time Distributed Demand-Side Voltage Control of Droop-Like-Controlled Microgrids. , 2018, , .		0
68	Distributed Robust Power Flow Control for Photovoltaic Generators Over LV Microgirds with Limited Communication Bandwidth. , 2019, , .		0