Qinran Hu

List of Publications by Year
in descending order

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89 papers	2,129 citations	257101 24 h-index	243296 44 g-index
91 all docs	91 docs citations	91 times ranked	1870 citing authors

#	Article	IF	Citations
1	Optimal Iterative Learning Control for Batch Processes in the Presence of Time-Varying Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 680-692.	5.9	12
2	A Multiarea State Estimation for Distribution Networks Under Mixed Measurement Environment. IEEE Transactions on Industrial Informatics, 2022, 18, 3620-3629.	7.2	9
3	A dynamic distributed energy storage control strategy for providing primary frequency regulation using multiâ€armed bandits method. IET Generation, Transmission and Distribution, 2022, 16, 669-679.	1.4	4
4	Grid-Forming Inverter Enabled Virtual Power Plants With Inertia Support Capability. IEEE Transactions on Smart Grid, 2022, 13, 4134-4143.	6.2	47
5	A realâ€time state estimation framework for integrated energy system considering measurement delay. IET Generation, Transmission and Distribution, 2022, 16, 2891-2902.	1.4	3
6	Topological partition based multi-energy flow calculation method for complex integrated energy systems. Energy, 2022, 244, 123152.	4.5	11
7	Optimal Allocation Method of Residential Air-Conditioners: Trade-Off Solutions Between Economic Costs and Aggregation Reliability. IEEE Open Access Journal of Power and Energy, 2022, 9, 131-142.	2.5	6
8	Electricity Price Prediction for Energy Storage System Arbitrage: A Decision-Focused Approach. IEEE Transactions on Smart Grid, 2022, 13, 2822-2832.	6.2	7
9	Residential Energy Arbitrage Considering Demand Response and Accurate Battery Model with Degradation Cost. , 2022, , .		2
10	A robust restoration decision-making strategy for unbalanced distribution networks considering the uncertainty of photovoltage generators. International Journal of Electrical Power and Energy Systems, 2022, 141, 108202.	3.3	6
11	GAN-based Residential Load Data Generation Model Considering Usersâ€™ Privacy. , 2022, , .		0
12	A novel peer-to-peer control strategy for multi-terminal DC distribution systems. IEEE Transactions on Smart Grid, 2022, , 1-1.	6.2	1
13	High-Order Frequency-Locked Loop: General Modeling and Design. IEEE Transactions on Industrial Electronics, 2021, 68, 12626-12635.	5.2	11
14	Optimal demand response strategy of commercial buildingâ€based virtual power plant using reinforcement learning. IET Generation, Transmission and Distribution, 2021, 15, 2309-2318.	1.4	34
15	Analysis and Control of Battery Energy Storage System Based on Hybrid Active Third-Harmonic Current Injection Converter. Energies, 2021, 14, 3140.	1.6	0
16	A Voltage Control of Energy Storage Mobile Shelter Under Multi Energy Access. , 2021, , .		0
17	A user selection algorithm for aggregating electric vehicle demands based on a multiâ€armed bandit approach. IET Energy Systems Integration, 2021, 3, 295-305.	1.1	20
18	Redesigning capacity market to include flexibility via ramp constraints in high-renewable penetrated system. International Journal of Electrical Power and Energy Systems, 2021, 128, 106677.	3.3	15

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19	Heat-electricity joint bidding strategies for intelligent buildings in intelligent building cluster. International Journal of Electrical Power and Energy Systems, 2021, 129, 106891.	3.3	8
20	Cost and low-carbon competitiveness of electrolytic hydrogen in China. Energy and Environmental Science, 2021, 14, 4868-4881.	15.6	34
21	Adaptive Master-Slave Control Strategy for Medium Voltage DC Distribution Systems Based on a Novel Nonlinear Droop Controller. IEEE Transactions on Smart Grid, 2021, 12, 4765-4777.	6.2	13
22	Assessment of plum rainâ€™s impact on power system emissions in Yangtze-Huaihe River basin of China. Nature Communications, 2021, 12, 6156.	5.8	23
23	Economic-based residential flexible resource allocation in microgrid. Energy Reports, 2021, 7, 99-109.	2.5	1
24	The coordinated operation of dual batteries energy storage system for cold areas. Energy Reports, 2021, 7, 84-91.	2.5	3
25	Strategic interaction to reduce customer fatigue in load aggregation. Energy Reports, 2021, 7, 339-348.	2.5	4
26	Bi-level Optimization Model of Day-ahead Demand Response Strategy for Load Aggregator. , 2021, , .		0
27	Dynamic pricing of integrated energy service providers based on master-slave game. , 2021, , .		1
28	An Overview of Virtual Power Plant Prospects from the Perspective of Optimal Scheduling, Market Bidding and Transient Analysis. , 2021, , .		2
29	Modeling and Transient Stability Analysis of Mixed-GFM-GFL-Based Power System. , 2021, , .		2
30	Temporal and Spatial Characteristics Analysis of Electrical Vehicle Charging Behaviour Based on SUMO. , 2021, , .		0
31	A State Space Discrete-Time Realization of the Three-phase Generalized Second-Order Integrator Frequency Locked Loop. , 2021, , .		1
32	State Feedback Control Based Seamless Switch Control for Microgrid Inverter. Applied Sciences (Switzerland), 2021, 11, 12114.	1.3	0
33	Benefits of Using Electrolytic Hydrogen for Offshore Wind on China's Low-carbon Energy. , 2021, , .		2
34	Extended-State-Observer-Based Distributed Robust Secondary Voltage and Frequency Control for an Autonomous Microgrid. IEEE Transactions on Sustainable Energy, 2020, 11, 195-205.	5.9	30
35	A Dynamic Robust Restoration Framework for Unbalanced Power Distribution Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 6301-6312.	7.2	12
36	Adaptive robust energy and reserve co-optimization of integrated electricity and heating system considering wind uncertainty. Applied Energy, 2020, 260, 114230.	5.1	70

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37	A Modified Incentive-based Demand Response Model using Deep Reinforcement Learning. , 2020, , .		2
38	A reliability-aware multi-armed bandit approach to learn and select users in demand response. Automatica, 2020, 119, 109015.	3.0	11
39	New Ancillary Service Market for ERCOT. IEEE Access, 2020, 8, 178391-178401.	2.6	28
40	Increasing operational flexibility of integrated energy systems by introducing power to hydrogen. IET Renewable Power Generation, 2020, 14, 372-380.	1.7	34
41	Residential HVAC Aggregation Based on Risk-averse Multi-armed Bandit Learning for Secondary Frequency Regulation. Journal of Modern Power Systems and Clean Energy, 2020, 8, 1160-1167.	3.3	32
42	A Scenario-adaptive Online Learning Algorithm for Demand Response. , 2020, , .		4
43	Economic operation of integrated energy systems considering combined production of hydrogen and medical oxygen. IET Renewable Power Generation, 2020, 14, 3309-3316.	1.7	15
44	Control of gridâ€forming application for fuel cell/electrolyser system. IET Renewable Power Generation, 2020, 14, 3368-3374.	1.7	10
45	A nonintrusive control strategy using voltage and reactive power for distribution systems based on PV and the nine-zone diagram. International Journal of Electrical Power and Energy Systems, 2019, 105, 89-97.	3.3	7
46	Trade-Offs in Meter Deployment for Distribution Network State Estimation Considering Measurement Uncertainty. IEEE Access, 2019, 7, 66123-66136.	2.6	3
47	A Physical Probabilistic Network Model for Distribution Network Topology Recognition Using Smart Meter Data. IEEE Transactions on Smart Grid, 2019, 10, 6965-6973.	6.2	23
48	An Interval Arithmetic-Based State Estimation Framework for Power Distribution Networks. IEEE Transactions on Industrial Electronics, 2019, 66, 8509-8520.	5.2	31
49	A Novel Application of Smart Grid Data: Human Circadian Rhythm Detection. , 2019, , .		0
50	Aggregating residential demands with a multi-armed bandit approach. , 2019, , .		5
51	Dispatchable Generation of a Novel Compressed-Air Assisted Wind Turbine and Its Operation Mechanism. IEEE Transactions on Sustainable Energy, 2019, 10, 2201-2210.	5.9	15
52	Participation of an Energy Hub in Electricity and Heat Distribution Markets: An MPEC Approach. IEEE Transactions on Smart Grid, 2019, 10, 3641-3653.	6.2	178
53	Expanding flexibility with P2H for integrated energy systems. , 2019, , .		2
54	Promoting acceptance of direct load control programs in the United States: Financial incentive versus control option. Energy, 2018, 147, 1278-1287.	4.5	55

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55	A Framework of Residential Demand Aggregation With Financial Incentives. IEEE Transactions on Smart Grid, 2018, 9, 497-505.	6.2	121
56	Dynamic demand control for system frequency regulation: Concept review, algorithm comparison, and future vision. Electric Power Systems Research, 2018, 154, 75-87.	2.1	99
57	Learning and Selecting the Right Customers for Reliability: A Multi-Armed Bandit Approach. , 2018, , .		12
58	A Distributed Voltage Control Strategy for Multi-Microgrid Active Distribution Networks Considering Economy and Response Speed. IEEE Access, 2018, 6, 31259-31268.	2.6	36
59	Hybrid one-cycle control scheme for fault-tolerant modular multilevel rectifiers. International Journal of Electronics, 2017, 104, 1483-1499.	0.9	4
60	GPU-Based Fast Decoupled Power Flow With Preconditioned Iterative Solver and Inexact Newton Method. IEEE Transactions on Power Systems, 2017, 32, 2695-2703.	4.6	58
61	A new method for optimal FTU placement in distribution network under consideration of power service reliability. Science China Technological Sciences, 2017, 60, 1885-1896.	2.0	5
62	Distributed temperature control via Geothermal Heat Pump systems in energy efficient buildings. , 2017, , .		9
63	Effective method to determine timeâ€delay stability margin and its application to power systems. IET Generation, Transmission and Distribution, 2017, 11, 1661-1670.	1.4	21
64	Gain tuning control strategy for DFIG-based wind farms. , 2017, , .		1
65	An interval arithmetic-based state estimation for unbalanced active distribution networks. , 2017, , .		7
66	GPU-based fast decoupled power flow with preconditioned iterative solver and inexact newton method. , 2017, , .		2
67	Vision of Future Control Centers in Smart Grids. , 2017, , 421-433.		0
68	Data quality issues for synchrophasor applications Part II: problem formulation and potential solutions. Journal of Modern Power Systems and Clean Energy, 2016, 4, 353-361.	3.3	41
69	Mitigate overestimation of voltage stability margin by coupled single-port circuit models. , 2016, , .		4
70	Strategic CBDR bidding considering FTR and wind power. IET Generation, Transmission and Distribution, 2016, 10, 2464-2474.	1.4	25
71	Risk Constrained Scheduling of Energy Storage for Load Serving Entities Considering Load and LMP Uncertainties. IFAC-PapersOnLine, 2016, 49, 318-323.	0.5	6
72	Day-ahead coordinated operation of utility-scale electricity and natural gas networks considering demand response based virtual power plants. Applied Energy, 2016, 176, 183-195.	5.1	134

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73	Estimating inter-area dominant oscillation mode in bulk power grid using multi-channel continuous wavelet transform. Journal of Modern Power Systems and Clean Energy, 2016, 4, 394-405.	3.3	16
74	Synchrophasor measurementâ€based correlation approach for dominant mode identification in bulk power systems. IET Generation, Transmission and Distribution, 2016, 10, 2710-2719.	1.4	15
75	Application of battery-supercapacitor energy storage system for smoothing wind power output: An optimal coordinated control strategy. , 2016, , .		17
76	Day-ahead optimal scheduling method for grid-connected microgrid based on energy storage control strategy. Journal of Modern Power Systems and Clean Energy, 2016, 4, 648-658.	3.3	59
77	Coupon-Based Demand Response Considering Wind Power Uncertainty: A Strategic Bidding Model for Load Serving Entities. IEEE Transactions on Power Systems, 2016, 31, 1025-1037.	4.6	151
78	Balancing Control Schemes for Modular Multilevel Converters Using Virtual Loop Mapping With Fault Tolerance Capabilities. IEEE Transactions on Industrial Electronics, 2016, 63, 38-48.	5.2	26
79	An Optimal PR Control Strategy with Load Current Observer for a Three-Phase Voltage Source Inverter. Energies, 2015, 8, 7542-7562.	1.6	15
80	The impact of FTR on LSE's strategic bidding considering coupon based demand response. , 2015, , .		5
81	System load margin evaluation using mixed-integer conic optimization. , 2015, , .		0
82	An approach to assess the responsive residential demand to financial incentives. , 2015, , .		8
83	Robust mean-variance optimization model for grid-connected microgrids. , 2015, , .		9
84	A Smart Home Test Bed for Undergraduate Education to Bridge the Curriculum Gap From Traditional Power Systems to Modernized Smart Grids. IEEE Transactions on Education, 2015, 58, 32-38.	2.0	65
85	A comprehensive user interactive simulation tool for smart home application. , 2014, , .		5
86	Quasi-Fixed-Frequency Hysteresis Current Tracking Control Strategy for Modular Multilevel Converters. Journal of Power Electronics, 2014, 14, 1147-1156.	0.9	12
87	Hardware Design of Smart Home Energy Management System With Dynamic Price Response. IEEE Transactions on Smart Grid, 2013, 4, 1878-1887.	6.2	208
88	Probabilistic Model of Payment Cost Minimization Considering Wind Power and Its Uncertainty. IEEE Transactions on Sustainable Energy, 2013, 4, 716-724.	5.9	80
89	Heuristic optimal restoration based on constructive algorithms for future smart grids. , 2011, , .		4