

Hongyu Wu

List of Publications by Year in descending order

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77
papers

2,493
citations

218381

26
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214527

47
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79
all docs

79
docs citations

79
times ranked

2281
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy management for data centre microgrids considering co-optimisation of workloads and waste heat. IET Energy Systems Integration, 2022, 4, 43-53.	1.1	3
2	Impact of model predictive control-enabled home energy management on large-scale distribution systems with photovoltaics. Advances in Applied Energy, 2022, 6, 100094.	6.6	12
3	Home Energy Management System for Price-Responsive Operation of Consumer Technologies Under an Export Rate. IEEE Access, 2022, 10, 50087-50099.	2.6	5
4	Green ammonia production-enabled demand flexibility in agricultural community microgrids with distributed renewables. Sustainable Energy, Grids and Networks, 2022, 31, 100736.	2.3	7
5	Load Margin Constrained Moving Target Defense against False Data Injection Attacks. , 2022, , .		1
6	A Comparison of Machine Learning Methods for Frequency Nadir Estimation in Power Systems. , 2022, , .		5
7	Detection of Stealthy False Data Injection Attacks in Unobservable Distribution Networks. , 2022, , .		1
8	Consequences of climate change on food-energy-water systems in arid regions without agricultural adaptation, analyzed using FEWCalc and DSSAT. Resources, Conservation and Recycling, 2021, 168, 105309.	5.3	6
9	Smart Grid Cyber-Physical Attack and Defense: A Review. IEEE Access, 2021, 9, 29641-29659.	2.6	108
10	Optimal Sizing of Battery Energy Storage Systems for Small Modular Reactor based Microgrids. , 2021, , .		0
11	Systematic planning of moving target defence for maximising detection effectiveness against false data injection attacks in smart grid. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 151-163.	1.9	6
12	Hourly occupant clothing decisions in residential HVAC energy management. Journal of Building Engineering, 2021, 40, 102708.	1.6	7
13	Optimal Planning and Operation of Hidden Moving Target Defense for Maximal Detection Effectiveness. IEEE Transactions on Smart Grid, 2021, 12, 4447-4459.	6.2	22
14	Relating agriculture, energy, and water decisions to farm incomes and climate projections using two freeware programs, FEWCalc and DSSAT. Agricultural Systems, 2021, 193, 103222.	3.2	4
15	Coordinated operation of water and electricity distribution networks with variable renewable energy and distribution locational marginal pricing. Renewable Energy, 2021, 177, 1438-1450.	4.3	15
16	A Fast Penalty-Based Gauss-Seidel Method for Stochastic Unit Commitment With Uncertain Load and Wind Generation. IEEE Open Access Journal of Power and Energy, 2021, 8, 211-222.	2.5	3
17	An Interior-Point Solver for AC Optimal Power Flow Considering Variable Impedance-Based FACTS Devices. IEEE Access, 2021, 9, 154460-154470.	2.6	11
18	PV-EV Integrated Home Energy Management Considering Residential Occupant Behaviors. Sustainability, 2021, 13, 13826.	1.6	8

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19	Distribution locational marginal price-based transactive day-ahead market with variable renewable generation. <i>Applied Energy</i> , 2020, 259, 114103.	5.1	37
20	Short-Term Wind Speed Prediction Based on Principal Component Analysis and LSTM. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4416.	1.3	27
21	Prosumer Nanogrids: A Cybersecurity Assessment. <i>IEEE Access</i> , 2020, 8, 131150-131164.	2.6	18
22	An Interior-Point Solver for Optimal Power Flow Problem Considering Distributed FACTS Devices. , 2020, , .		6
23	Short-term forecasts and long-term mitigation evaluations for the COVID-19 epidemic in Hubei Province, China. <i>Infectious Disease Modelling</i> , 2020, 5, 563-574.	1.2	40
24	Residential Aggregator Risk-Constrained Profit Maximization Under Demand Response. , 2020, , .		0
25	Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4345-4357.	6.2	35
26	Stochastic home energy management system via approximate dynamic programming. <i>IET Energy Systems Integration</i> , 2020, 2, 382-392.	1.1	13
27	Net Load Redistribution Attacks on Nodal Voltage Magnitude Estimation in AC Distribution Networks. , 2020, , .		7
28	Three-Phase Distribution Locational Marginal Pricing to Manage Unbalanced Variable Renewable Energy. , 2020, , .		7
29	Multi-Timescale Three-Phase Unbalanced Distribution System Operation With Variable Renewable Generations. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 4497-4507.	6.2	21
30	A Frankâ€“Wolfe Progressive Hedging Algorithm for Improved Lower Bounds in Stochastic SCUC. <i>IEEE Access</i> , 2019, 7, 99398-99406.	2.6	7
31	HEMS-enabled transactive flexibility in real-time operation of three-phase unbalanced distribution systems. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019, 7, 1434-1449.	3.3	20
32	Riskâ€“based stochastic dayâ€“ahead operation for data centre virtual power plants. <i>IET Renewable Power Generation</i> , 2019, 13, 1660-1669.	1.7	11
33	Stability of Transactive Energy Market-Based Power Distribution System Under Data Integrity Attack. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 5541-5550.	7.2	35
34	Deep neural networks for short-term load forecasting in ERCOT system. , 2018, , .		4
35	Hidden Moving Target Defense against False Data Injection in Distribution Network Reconfiguration. , 2018, , .		18
36	Hardware-in-the-Loop (HIL) Simulations for Smart Grid Impact Studies. , 2018, , .		14

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37	Butler, Not Servant: A Human-Centric Smart Home Energy Management System. , 2017, 55, 27-33.		77
38	Developing Use Cases for the Evaluation of ADMS Applications to Accelerate Technology Adoption. , 2017, , .		14
39	Stochastic Multi-Timescale Power System Operations With Variable Wind Generation. IEEE Transactions on Power Systems, 2017, 32, 3325-3337.	4.6	56
40	Wind-Friendly Flexible Ramping Product Design in Multi-Timescale Power System Operations. IEEE Transactions on Sustainable Energy, 2017, 8, 1064-1075.	5.9	69
41	Analysis of operating reserve demand curves in power system operations in the presence of variable generation. IET Renewable Power Generation, 2017, 11, 959-965.	1.7	5
42	IGMS: An Integrated ISO-to-Appliance Scale Grid Modeling System. IEEE Transactions on Smart Grid, 2017, 8, 1525-1534.	6.2	44
43	A day-ahead market energy auction for distribution system operation. , 2017, , .		20
44	Hardware-in-the-loop simulation of a distribution system with air conditioners under model predictive control. , 2017, , .		17
45	Quantifying the economic and grid reliability impacts of improved wind power forecasting. , 2017, , .		3
46	State-Of-The-Art in Microgrid-Integrated Distributed Energy Storage Sizing. Energies, 2017, 10, 1421.	1.6	39
47	Transactive-Market-Based Operation of Distributed Electrical Energy Storage with Grid Constraints. Energies, 2017, 10, 1891.	1.6	28
48	Transactive Home Energy Management Systems: The Impact of Their Proliferation on the Electric Grid. IEEE Electrification Magazine, 2016, 4, 8-14.	1.8	92
49	Design flexibility for uncertain distributed generation from photovoltaics. , 2016, , .		5
50	Quantifying the Economic and Grid Reliability Impacts of Improved Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2016, 7, 1525-1537.	5.9	82
51	Wind power ramping product for increasing power system flexibility. , 2016, , .		9
52	Applications of Wireless Sensor Networks for Area Coverage in Microgrids. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	15
53	A human-centered smart home system with wearable-sensor behavior analysis. , 2016, , .		0
54	Analyzing the impacts of increased wind power on generation Revenue Sufficiency. , 2016, , .		9

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55	The value of improved wind power forecasting: Grid flexibility quantification, ramp capability analysis, and impacts of electricity market operation timescales. <i>Applied Energy</i> , 2016, 184, 696-713.	5.1	56
56	A game theoretic approach to risk-based optimal bidding strategies for electric vehicle aggregators in electricity markets with variable wind energy resources. , 2016, , .		4
57	Multiple Period Ramping Processes in Day-Ahead Electricity Markets. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 1634-1645.	5.9	12
58	A Multi-Band Uncertainty Set Based Robust SCUC With Spatial and Temporal Budget Constraints. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 4988-5000.	4.6	58
59	A Game Theoretic Approach to Risk-Based Optimal Bidding Strategies for Electric Vehicle Aggregators in Electricity Markets With Variable Wind Energy Resources. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 374-385.	5.9	172
60	Chance-Constrained System of Systems Based Operation of Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 3404-3413.	4.6	50
61	Demand Response Exchange in the Stochastic Day-Ahead Scheduling With Variable Renewable Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 516-525.	5.9	192
62	An assessment of the impact of stochastic day-ahead SCUC on economic and reliability metrics at multiple timescales. , 2015, , .		5
63	Stochastic optimal scheduling of residential appliances with renewable energy sources. , 2015, , .		7
64	Demand Forecasting in the Smart Grid Paradigm: Features and Challenges. <i>Electricity Journal</i> , 2015, 28, 51-62.	1.3	30
65	Thermal Generation Flexibility With Ramping Costs and Hourly Demand Response in Stochastic Security-Constrained Scheduling of Variable Energy Sources. <i>IEEE Transactions on Power Systems</i> , 2015, 30, 2955-2964.	4.6	126
66	Stochastic SCUC Solution With Variable Wind Energy Using Constrained Ordinal Optimization. <i>IEEE Transactions on Sustainable Energy</i> , 2014, 5, 379-388.	5.9	45
67	Chance-Constrained Day-Ahead Scheduling in Stochastic Power System Operation. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 1583-1591.	4.6	209
68	Hourly Demand Response in Day-Ahead Scheduling Considering Generating Unit Ramping Cost. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 2446-2454.	4.6	100
69	Hourly demand response in day-ahead scheduling for managing the variability of renewable energy. <i>IET Generation, Transmission and Distribution</i> , 2013, 7, 226-234.	1.4	91
70	Security-Constrained Unit Commitment Based on a Realizable Energy Delivery Formulation. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-22.	0.6	11
71	Stochastic operation security with demand response and renewable energy sources. , 2012, , .		3
72	A Systematic Method for Constructing Feasible Solution to SCUC Problem With Analytical Feasibility Conditions. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 526-534.	4.6	37

#	ARTICLE	IF	CITATIONS
73	A Revised Subgradient Method for Solving the Dual Problem of Hydrothermal Scheduling. , 2011, , .		3
74	Analytical conditions for determining feasible commitment states of SCUC problems. , 2010, , .		2
75	Fast Identification of Inactive Security Constraints in SCUC Problems. IEEE Transactions on Power Systems, 2010, 25, 1946-1954.	4.6	138
76	Security-constrained generation scheduling with feasible energy delivery. , 2009, , .		9
77	Optimal short term scheduling of cascaded hydroelectric chain plants with pumped-storage units. , 2008, , .		1