Hongyu Wu

List of Publications by Year
in descending order

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		218381	214527
77	2,493	26	47
papers	citations	h-index	g-index

79	79	79	2281
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chance-Constrained Day-Ahead Scheduling in Stochastic Power System Operation. IEEE Transactions on Power Systems, 2014, 29, 1583-1591.	4.6	209
2	Demand Response Exchange in the Stochastic Day-Ahead Scheduling With Variable Renewable Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 516-525.	5.9	192
3	A Game Theoretic Approach to Risk-Based Optimal Bidding Strategies for Electric Vehicle Aggregators in Electricity Markets With Variable Wind Energy Resources. IEEE Transactions on Sustainable Energy, 2016, 7, 374-385.	5.9	172
4	Fast Identification of Inactive Security Constraints in SCUC Problems. IEEE Transactions on Power Systems, 2010, 25, 1946-1954.	4.6	138
5	Thermal Generation Flexibility With Ramping Costs and Hourly Demand Response in Stochastic Security-Constrained Scheduling of Variable Energy Sources. IEEE Transactions on Power Systems, 2015, 30, 2955-2964.	4.6	126
6	Smart Grid Cyber-Physical Attack and Defense: A Review. IEEE Access, 2021, 9, 29641-29659.	2.6	108
7	Hourly Demand Response in Day-Ahead Scheduling Considering Generating Unit Ramping Cost. IEEE Transactions on Power Systems, 2013, 28, 2446-2454.	4.6	100
8	Transactive Home Energy Management Systems: The Impact of Their Proliferation on the Electric Grid. IEEE Electrification Magazine, 2016, 4, 8-14.	1.8	92
9	Hourly demand response in dayâ€ahead scheduling for managing the variability of renewable energy. IET Generation, Transmission and Distribution, 2013, 7, 226-234.	1.4	91
10	Quantifying the Economic and Grid Reliability Impacts of Improved Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2016, 7, 1525-1537.	5.9	82
11	Butler, Not Servant: A Human-Centric Smart Home Energy Management System. , 2017, 55, 27-33.		77
12	Wind-Friendly Flexible Ramping Product Design in Multi-Timescale Power System Operations. IEEE Transactions on Sustainable Energy, 2017, 8, 1064-1075.	5.9	69
13	A Multi-Band Uncertainty Set Based Robust SCUC With Spatial and Temporal Budget Constraints. IEEE Transactions on Power Systems, 2016, 31, 4988-5000.	4.6	58
14	The value of improved wind power forecasting: Grid flexibility quantification, ramp capability analysis, and impacts of electricity market operation timescales. Applied Energy, 2016, 184, 696-713.	5.1	56
15	Stochastic Multi-Timescale Power System Operations With Variable Wind Generation. IEEE Transactions on Power Systems, 2017, 32, 3325-3337.	4.6	56
16	Chance-Constrained System of Systems Based Operation of Power Systems. IEEE Transactions on Power Systems, 2016, 31, 3404-3413.	4.6	50
17	Stochastic SCUC Solution With Variable Wind Energy Using Constrained Ordinal Optimization. IEEE Transactions on Sustainable Energy, 2014, 5, 379-388.	5.9	45
18	IGMS: An Integrated ISO-to-Appliance Scale Grid Modeling System. IEEE Transactions on Smart Grid, 2017, 8, 1525-1534.	6.2	44

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19	Short-term forecasts and long-term mitigation evaluations for the COVID-19 epidemic in Hubei Province, China. Infectious Disease Modelling, 2020, 5, 563-574.	1.2	40
20	State-Of-The-Art in Microgrid-Integrated Distributed Energy Storage Sizing. Energies, 2017, 10, 1421.	1.6	39
21	A Systematic Method for Constructing Feasible Solution to SCUC Problem With Analytical Feasibility Conditions. IEEE Transactions on Power Systems, 2012, 27, 526-534.	4.6	37
22	Distribution locational marginal price-based transactive day-ahead market with variable renewable generation. Applied Energy, 2020, 259, 114103.	5.1	37
23	Stability of Transactive Energy Market-Based Power Distribution System Under Data Integrity Attack. IEEE Transactions on Industrial Informatics, 2019, 15, 5541-5550.	7.2	35
24	Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. IEEE Transactions on Smart Grid, 2020, 11, 4345-4357.	6.2	35
25	Demand Forecasting in the Smart Grid Paradigm: Features and Challenges. Electricity Journal, 2015, 28, 51-62.	1.3	30
26	Transactive-Market-Based Operation of Distributed Electrical Energy Storage with Grid Constraints. Energies, 2017, 10, 1891.	1.6	28
27	Short-Term Wind Speed Prediction Based on Principal Component Analysis and LSTM. Applied Sciences (Switzerland), 2020, 10, 4416.	1.3	27
28	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
29	Multi-Timescale Three-Phase Unbalanced Distribution System Operation With Variable Renewable Generations. IEEE Transactions on Smart Grid, 2019, 10, 4497-4507.	6.2	21
30	A day-ahead market energy auction for distribution system operation. , 2017, , .		20
31	HEMS-enabled transactive flexibility in real-time operation of three-phase unbalanced distribution systems. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1434-1449.	3.3	20
32	Hidden Moving Target Defense against False Data Injection in Distribution Network Reconfiguration. , 2018, , .		18
33	Prosumer Nanogrids: A Cybersecurity Assessment. IEEE Access, 2020, 8, 131150-131164.	2.6	18
34	Hardware-in-the-loop simulation of a distribution system with air conditioners under model predictive control. , 2017, , .		17
35	Applications of Wireless Sensor Networks for Area Coverage in Microgrids. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	15
36	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

#	Article	IF	Citations
37	Developing Use Cases for the Evaluation of ADMS Applications to Accelerate Technology Adoption. , 2017, , .		14
38	Hardware-in-the-Loop (HIL) Simulations for Smart Grid Impact Studies. , 2018, , .		14
39	Stochastic home energy management system via approximate dynamic programming. IET Energy Systems Integration, 2020, 2, 382-392.	1.1	13
40	Multiple Period Ramping Processes in Day-Ahead Electricity Markets. IEEE Transactions on Sustainable Energy, 2016, 7, 1634-1645.	5.9	12
41	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
42	Security-Constrained Unit Commitment Based on a Realizable Energy Delivery Formulation. Mathematical Problems in Engineering, 2012, 2012, 1-22.	0.6	11
43	Riskâ€based stochastic dayâ€ahead operation for data centre virtual power plants. IET Renewable Power Generation, 2019, 13, 1660-1669.	1.7	11
44	An Interior-Point Solver for AC Optimal Power Flow Considering Variable Impedance-Based FACTS Devices. IEEE Access, 2021, 9, 154460-154470.	2.6	11
45	Security-constrained generation scheduling with feasible energy delivery. , 2009, , .		9
46	Wind power ramping product for increasing power system flexibility. , 2016, , .		9
47	Analyzing the impacts of increased wind power on generation Revenue Sufficiency. , 2016, , .		9
48	PV-EV Integrated Home Energy Management Considering Residential Occupant Behaviors. Sustainability, 2021, 13, 13826.	1.6	8
49	Stochastic optimal scheduling of residential appliances with renewable energy sources. , 2015, , .		7
50	A Frankâ€“Wolfe Progressive Hedging Algorithm for Improved Lower Bounds in Stochastic SCUC. IEEE Access, 2019, 7, 99398-99406.	2.6	7
51	Hourly occupant clothing decisions in residential HVAC energy management. Journal of Building Engineering, 2021, 40, 102708.	1.6	7
52	Net Load Redistribution Attacks on Nodal Voltage Magnitude Estimation in AC Distribution Networks. , 2020, , .		7
53	Three-Phase Distribution Locational Marginal Pricing to Manage Unbalanced Variable Renewable Energy. , 2020, , .		7
54	Green ammonia production-enabled demand flexibility in agricultural community microgrids with distributed renewables. Sustainable Energy, Grids and Networks, 2022, 31, 100736.	2.3	7

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55	An Interior-Point Solver for Optimal Power Flow Problem Considering Distributed FACTS Devices. , 2020, , .		6
56	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
57	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
58	An assessment of the impact of stochastic day-ahead SCUC on economic and reliability metrics at multiple timescales. , 2015, , .		5
59	Design flexibility for uncertain distributed generation from photovoltaics. , 2016, , .		5
60	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
61	Home Energy Management System for Price-Responsive Operation of Consumer Technologies Under an Export Rate. IEEE Access, 2022, 10, 50087-50099.	2.6	5
62	A Comparison of Machine Learning Methods for Frequency Nadir Estimation in Power Systems. , 2022, , .		5
63	A game theoretic approach to risk-based optimal bidding strategies for electric vehicle aggregators in electricity markets with variable wind energy resources. , 2016, , .		4
64	Deep neural networks for short-term load forecasting in ERCOT system. , 2018, , .		4
65	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
66	A Revised Subgradient Method for Solving the Dual Problem of Hydrothermal Scheduling. , 2011, , .		3
67	Stochastic operation security with demand response and renewable energy sources. , 2012, , .		3
68	Quantifying the economic and grid reliability impacts of improved wind power forecasting. , 2017, , .		3
69	Energy management for data centre microgrids considering coâ€optimisation of workloads and waste heat. IET Energy Systems Integration, 2022, 4, 43-53.	1.1	3
70	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
71	Analytical conditions for determining feasible commitment states of SCUC problems. , 2010, , .		2
72	Optimal short term scheduling of cascaded hydroelectric chain plants with pumped-storage units. , 2008, , .		1

#	Article	IF	Citations
73	Load Margin Constrained Moving Target Defense against False Data Injection Attacks. , 2022, , .		1
74	Detection of Stealthy False Data Injection Attacks in Unobservable Distribution Networks. , 2022, , .		1
75	A human-centered smart home system with wearable-sensor behavior analysis. , 2016, , .		0
76	Residential Aggregator Risk-Constrained Profit Maximization Under Demand Response. , 2020, , .		0
77	Optimal Sizing of Battery Energy Storage Systems for Small Modular Reactor based Microgrids. , 2021, , .		0