

# Hao Liang

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,980  
citations

236925

25  
h-index

233421

45  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3458  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Workload Allocation in Fog-Cloud Computing Towards Balanced Delay and Power Consumption. IEEE Internet of Things Journal, 2016, , 1-1.	8.7	437
2	False Data Injection on State Estimation in Power Systems—Attacks, Impacts, and Defense: A Survey. IEEE Transactions on Industrial Informatics, 2017, 13, 411-423.	11.3	403
3	Stochastic Modeling and Optimization in a Microgrid: A Survey. Energies, 2014, 7, 2027-2050.	3.1	161
4	CCPA: Coordinated Cyber-Physical Attacks and Countermeasures in Smart Grid. IEEE Transactions on Smart Grid, 2017, 8, 2420-2430.	9.0	160
5	Distributed Economic Dispatch in Microgrids Based on Cooperative Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2192-2203.	11.3	159
6	False Data Injection Attacks Against State Estimation in Power Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 2871-2881.	9.0	145
7	Direct Interval Forecast of Uncertain Wind Power Based on Recurrent Neural Networks. IEEE Transactions on Sustainable Energy, 2018, 9, 1177-1187.	8.8	129
8	Distributionally Robust Chance-Constrained Energy Management for Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2234-2244.	9.0	118
9	Blockchain for Cybersecurity in Smart Grid: A Comprehensive Survey. IEEE Transactions on Industrial Informatics, 2021, 17, 3-19.	11.3	109
10	Mobility-Aware Coordinated Charging for Electric Vehicles in VANET-Enhanced Smart Grid. IEEE Journal on Selected Areas in Communications, 2014, 32, 1344-1360.	14.0	93
11	Multi-agent transactive energy management system considering high levels of renewable energy source and electric vehicles. IET Generation, Transmission and Distribution, 2017, 11, 3713-3721.	2.5	86
12	Investigating Wireless Charging and Mobility of Electric Vehicles on Electricity Market. IEEE Transactions on Industrial Electronics, 2015, 62, 3123-3133.	7.9	79
13	Cyber-Security of Smart Microgrids: A Survey. Energies, 2021, 14, 27.	3.1	78
14	False Data Injection Attacks With Limited Susceptance Information and New Countermeasures in Smart Grid. IEEE Transactions on Industrial Informatics, 2019, 15, 1619-1628.	11.3	70
15	False Data Injection Attacks Against State Estimation in Multiphase and Unbalanced Smart Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 6000-6013.	9.0	65
16	A Survey on Electric Buses—Energy Storage, Power Management, and Charging Scheduling. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 9-22.	8.0	45
17	Stochastic Multi-Timescale Energy Management of Greenhouses With Renewable Energy Sources. IEEE Transactions on Sustainable Energy, 2019, 10, 905-917.	8.8	43
18	A Stochastic Game Approach for PEV Charging Station Operation in Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 969-979.	11.3	42

#	ARTICLE	IF	CITATIONS
19	Resonance-Free Shunt Capacitors' Configurations, Design Methods and Comparative Analysis. IEEE Transactions on Power Delivery, 2016, 31, 2287-2295.	4.3	38
20	Network Parameter Coordinated False Data Injection Attacks Against Power System AC State Estimation. IEEE Transactions on Smart Grid, 2021, 12, 1626-1639.	9.0	32
21	Wavelet Neural Network Based Multiobjective Interval Prediction for Short-Term Wind Speed. IEEE Access, 2018, 6, 63352-63365.	4.2	29
22	Joint Admittance Perturbation and Meter Protection for Mitigating Stealthy FDI Attacks Against Power System State Estimation. IEEE Transactions on Power Systems, 2020, 35, 1468-1478.	6.5	28
23	Stochastic Energy Management of Electric Bus Charging Stations With Renewable Energy Integration and B2G Capabilities. IEEE Transactions on Sustainable Energy, 2021, 12, 1206-1216.	8.8	27
24	Cooperative Relaying Strategies for Smart Grid Communications: Bargaining Models and Solutions. IEEE Internet of Things Journal, 2017, 4, 2315-2325.	8.7	26
25	Two-stage stochastic demand response in smart grid considering random appliance usage patterns. IET Generation, Transmission and Distribution, 2018, 12, 4163-4171.	2.5	26
26	Hierarchical and Decentralized Stochastic Energy Management for Smart Distribution Systems With High BESS Penetration. IEEE Transactions on Smart Grid, 2019, 10, 6516-6527.	9.0	24
27	False Data Injection Attacks Against State-of-Charge Estimation of Battery Energy Storage Systems in Smart Distribution Networks. IEEE Transactions on Smart Grid, 2021, 12, 2566-2577.	9.0	23
28	A Stochastic Game Approach for Collaborative Beamforming in SDN-Based Energy Harvesting Wireless Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 9583-9595.	8.7	22
29	Multistage robust energy management for microgrids considering uncertainty. IET Generation, Transmission and Distribution, 2019, 13, 1906-1913.	2.5	22
30	An Analytical Method for Probabilistic Modeling of the Steady-State Behavior of Secondary Residential System. IEEE Transactions on Smart Grid, 2017, 8, 2575-2584.	9.0	17
31	Design Method for Third-Order High-Pass Filter. IEEE Transactions on Power Delivery, 2016, 31, 402-403.	4.3	16
32	Two Time-Scale Cross-Layer Scheduling for Cellular/WLAN Interworking. IEEE Transactions on Communications, 2014, 62, 2773-2789.	7.8	15
33	Indoor Temperature Control of Cost-Effective Smart Buildings via Real-Time Smart Grid Communications. , 2016, , .		15
34	Joint encryption and compressed sensing in smart grid data transmission. , 2014, , .		14
35	An Optimal Real-Time Distributed Algorithm for Utility Maximization of Mobile Ad Hoc Cloud. IEEE Communications Letters, 2018, 22, 824-827.	4.1	14
36	A Three-Layer Stochastic Energy Management Approach for Electric Bus Transit Centers With PV and Energy Storage Systems. IEEE Transactions on Smart Grid, 2021, 12, 1346-1357.	9.0	14

#	ARTICLE	IF	CITATIONS
37	Energy storage management in smart homes based on resident activity of daily life recognition. , 2015, , .		13
38	Event-Based Non-Intrusive Home Current Measurement Using Sensor Array. IEEE Transactions on Smart Grid, 2018, 9, 5878-5886.	9.0	12
39	Distributionally robust multi- $\epsilon$ -period energy management for CCHP-based microgrids. IET Generation, Transmission and Distribution, 2020, 14, 4097-4107.	2.5	12
40	Whether to charge an electric vehicle or not? A near-optimal online approach. , 2016, , .		11
41	Dynamic charging and discharging for electric vehicles in microgrids. , 2015, , .		10
42	Decentralized stochastic programming for optimal vehicle-to-grid operation in smart grid with renewable generation. IET Renewable Power Generation, 2021, 15, 746-757.	3.1	10
43	DCD: Distributed charging and discharging scheme for EVs in microgrids. , 2014, , .		9
44	Distributed rate control, routing, and energy management in dynamic rechargeable sensor networks. Peer-to-Peer Networking and Applications, 2017, 10, 425-439.	3.9	9
45	Whether to Charge or Discharge an Electric Vehicle? An Optimal Approach in Polynomial Time. , 2017, , .		9
46	Transactive Demand Side Management Programs in Smart Grids with High Penetration of EVs. Energies, 2017, 10, 1640.	3.1	9
47	A Discounted Stochastic Multiplayer Game Approach for Vehicle-to-Grid Voltage Regulation. IEEE Transactions on Vehicular Technology, 2019, 68, 9647-9659.	6.3	9
48	Optimal Coding Schemes for Detecting False Data Injection Attacks in Power System State Estimation. IEEE Transactions on Smart Grid, 2022, 13, 738-749.	9.0	9
49	Transmission Optimization of Social and Physical Sensor Nodes via Collaborative Beamforming in Cyber-Physical-Social Systems. Sensors, 2018, 18, 4300.	3.8	6
50	Co-Optimizing Battery Storage for Energy Arbitrage and Frequency Regulation in Real-Time Markets Using Deep Reinforcement Learning. Energies, 2021, 14, 8365.	3.1	6
51	Parallel stochastic programming for energy storage management in smart grid with probabilistic renewable generation and load models. IET Renewable Power Generation, 2019, 13, 774-784.	3.1	5
52	Stochastic Game between Cloud Broker and Cloudlet for Mobile Cloud Computing. , 2017, , .		3
53	An MHO Approach for Electric Bus Charging Scheme Optimization Based on Energy Consumption Estimation. , 2018, , .		3
54	Cooperative Neural Fitted Learning for Distributed Energy Management in Microgrids via Wireless Networks. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Reinforcement Learning for Smart Charging of Electric Buses in Smart Grid. , 2019, , .		2
56	Distributionally Robust Chance-Constrained Energy Management for Islanded Microgrids. , 2019, , .		2
57	A Data-Driven Approach for Electric Bus Energy Consumption Estimation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17027-17038.	8.0	2
58	A firm-union bargaining game approach for PHEV charging access control. , 2015, , .		1
59	A Novel Node Selection Algorithm for Collaborative Beamforming in Wireless Sensor Networks. , 2018, , .		1
60	FDI Attacks against Real-Time DLMP in CPS-Based Smart Distribution Systems. , 2019, , .		1
61	Stochastic modelling of community energy storage system based on diffusion approximation. , 2016, , .		0
62	Vehicle-to-Grid Frequency Regulation Signal Optimization Based on Inhomogeneous Hidden Markov Model. , 2017, , .		0
63	Direct Interval Forecast of Uncertain Wind Power Based on Recurrent Neural Networks. , 2019, , .		0
64	Energy and Reserve Dispatch with Renewable Generation Using Data-Driven Distributionally Robust Optimization. , 2019, , .		0
65	False Data Injection Attacks Against State Estimation in Multiphase and Unbalanced Smart Distribution Systems. , 2020, , .		0