Fengji Luo

List of Publications by Year
in descending order

125 papers	6,300 citations	76326 40 h-index	71685 76 g-index
125 all docs	125 docs citations	125 times ranked	5439 citing authors

#	Article	IF	Citations
1	HHFS: A Hybrid Hierarchical Feature Selection Method for Ageing Gene Classification. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 690-699.	3.8	6
2	Distribution planning of mobile battery energy storage systems for grid outage support to urban residents. IET Energy Systems Integration, 2022, 4, 87-97.	1.8	4
3	Aggregating buildings as a virtual power plant: Architectural design, supporting technologies, and case studies. IET Energy Systems Integration, 2022, 4, 423-435.	1.8	5
4	Many-Objective HEMS Based on Multi-Scale Occupant Satisfaction Modelling and Second-Life BESS Utilization. IEEE Transactions on Sustainable Energy, 2022, 13, 934-947.	8.8	12
5	Transactive Operational Framework for Internet Data Centers in Geo-Distributed Local Energy Markets. IEEE Transactions on Cloud Computing, 2022, , 1-1.	4.4	1
6	Personalized Home BESS Recommender System Based on Neural Collaborative Filtering. , 2022, , .		2
7	A social relationship preference aware peer‐to‐peer energy market for urban energy prosumers and consumers. IET Renewable Power Generation, 2022, 16, 688-699.	3.1	9
8	Hierarchical energy management for community microgrids with integration of second‐life battery energy storage systems and photovoltaic solar energy. IET Energy Systems Integration, 2022, 4, 206-219.	1.8	11
9	A Fully Decentralized Hierarchical Transactive Energy Framework for Charging EVs With Local DERs in Power Distribution Systems. IEEE Transactions on Transportation Electrification, 2022, 8, 3041-3055.	7.8	16
10	Transferrable Model-Agnostic Meta-learning for Short-Term Household Load Forecasting With Limited Training Data. IEEE Transactions on Power Systems, 2022, 37, 3177-3180.	6.5	6
11	False Data Injection- and Propagation-Aware Game Theoretical Approach for Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 3342-3353.	9.0	4
12	Dual‐blockchain‐based P2P energy trading system with an improved optimistic rollup mechanism. IET Smart Grid, 2022, 5, 246-259.	2.2	2
13	An Efficient Hybrid IDS Deployment Architecture for Multi-Hop Clustered Wireless Sensor Networks. IEEE Transactions on Information Forensics and Security, 2022, 17, 2688-2702.	6.9	3
14	Blockchain technologies empowering peer‐to‐peer trading in multi‐energy systems: From advanced technologies towards applications. IET Smart Grid, 2022, 5, 219-222.	2.2	1
15	Personalized Residential Energy Usage Recommendation System Based on Load Monitoring and Collaborative Filtering. IEEE Transactions on Industrial Informatics, 2021, 17, 1253-1262.	11.3	32
16	Operational Planning of Centralized Charging Stations Utilizing Second-Life Battery Energy Storage Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 387-399.	8.8	82
17	Integrated planning of internet data centers and battery energy storage systems in smart grids. Applied Energy, 2021, 281, 116093.	10.1	49
18	Load forecasting in the short-term scheduling of DERs. , 2021, , 389-417.		1

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19	Real‑time energy management system for public laundries with demand charge tariff. Journal of Engineering, 2021, 2021, 49-59.	1.1	2
20	Planning of electric vehicle charging stations and distribution system with highly renewable penetrations. IET Electrical Systems in Transportation, 2021, 11, 256-268.	2.4	11
21	Temporary immutability: A removable blockchain solution for prosumer-side energy trading. Journal of Network and Computer Applications, 2021, 180, 103018.	9.1	13
22	Integrated Household Appliance Scheduling With Modeling of Occupant Satisfaction and Appliance Heat Gain. Frontiers in Energy Research, 2021, 9, .	2.3	2
23	Integrated energy systems of data centers and smart grids: State-of-the-art and future opportunities. Applied Energy, 2021, 301, 117474.	10.1	39
24	Short-Term Residential Load Forecasting Based on Federated Learning and Load Clustering. , 2021, , .		13
25	SocialBully: A Social Information-Driven Cyberbullying Detector with Similarity-Based Word Embedding. , 2021, , .		0
26	Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. IEEE Transactions on Smart Grid, 2020, 11, 4-14.	9.0	100
27	Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System. IEEE Transactions on Smart Grid, 2020, 11, 602-611.	9.0	60
28	Advanced Cyber-Physical Infrastructures of Next-Generation Grids with Big Data Penetrati ons. Journal of Energy Engineering - ASCE, 2020, 146, 02019002.	1.9	0
29	Hierarchical energy management scheme for residential communities under grid outage event. IET Smart Grid, 2020, 3, 174-181.	2.2	6
30	A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. IEEE Transactions on Smart Grid, 2020, 11, 4056-4069.	9.0	21
31	Multi-Agent-Based Voltage Regulation Scheme for High Photovoltaic Penetrated Active Distribution Networks Using Battery Energy Storage Systems. IEEE Access, 2020, 8, 7323-7333.	4.2	17
32	A Framework for Cyber-Topology Attacks: Line-Switching and New Attack Scenarios. IEEE Transactions on Smart Grid, 2019, 10, 1704-1712.	9.0	77
33	SPB: A Secure Private Blockchain-Based Solution for Distributed Energy Trading. IEEE Communications Magazine, 2019, 57, 120-126.	6.1	69
34	Coordinated residential energy resource scheduling with human thermal comfort modelling and renewable uncertainties. IET Generation, Transmission and Distribution, 2019, 13, 1768-1776.	2.5	12
35	A personalized electricity tariff recommender system based on advanced metering infrastructure and collaborative filtering. International Journal of Electrical Power and Energy Systems, 2019, 113, 403-410.	5.5	25
36	Power Big Data: New Assets of Electric Power Utilities. Journal of Energy Engineering - ASCE, 2019, 145, .	1.9	6

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37	Joint planning of active distribution networks considering renewable power uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 110, 696-704.	5.5	44
38	Resilient Energy Management for Residential Communities under Grid Outages. , 2019, , .		5
39	An Advanced Persistent Distributed Denial-of-Service Attack Model With Reverse-Path Forwarding-Based Defending Strategy. IEEE Access, 2019, 7, 185590-185596.	4.2	2
40	Distributed meter data aggregation framework based on Blockchain and homomorphic encryption. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 30-37.	3.3	32
41	A Distributed Electricity Trading System in Active Distribution Networks Based on Multi-Agent Coalition and Blockchain. IEEE Transactions on Power Systems, 2019, 34, 4097-4108.	6.5	217
42	A day-ahead scheduling framework for thermostatically controlled loads with thermal inertia and thermal comfort model. Journal of Modern Power Systems and Clean Energy, 2019, 7, 568-578.	5.4	18
43	Hierarchical Energy Management System for Home Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 5536-5546.	9.0	48
44	A Multistage Home Energy Management System With Residential Photovoltaic Penetration. IEEE Transactions on Industrial Informatics, 2019, 15, 116-126.	11.3	110
45	Social Information Filtering-Based Electricity Retail Plan Recommender System for Smart Grid End Users. IEEE Transactions on Smart Grid, 2019, 10, 95-104.	9.0	56
46	Distributed Blockchain-Based Data Protection Framework for Modern Power Systems Against Cyber Attacks. IEEE Transactions on Smart Grid, 2019, 10, 3162-3173.	9.0	272
47	An Extensible Approach for Non-Intrusive Load Disaggregation With Smart Meter Data. IEEE Transactions on Smart Grid, 2018, 9, 3362-3372.	9.0	139
48	Decision-Making for Electricity Retailers: A Brief Survey. IEEE Transactions on Smart Grid, 2018, 9, 4140-4153.	9.0	102
49	Stochastic Collaborative Planning of Electric Vehicle Charging Stations and Power Distribution System. IEEE Transactions on Industrial Informatics, 2018, 14, 321-331.	11.3	140
50	Generalized FDIA-Based Cyber Topology Attack With Application to the Australian Electricity Market Trading Mechanism. IEEE Transactions on Smart Grid, 2018, 9, 3820-3829.	9.0	68
51	Short-Term Residential Load Forecasting Based on Resident Behaviour Learning. IEEE Transactions on Power Systems, 2018, 33, 1087-1088.	6.5	440
52	Optimal Operation of Battery Energy Storage System Considering Distribution System Uncertainty. IEEE Transactions on Sustainable Energy, 2018, 9, 1051-1060.	8.8	87
53	Time-Aware QoS Prediction for Cloud Service Recommendation Based on Matrix Factorization. IEEE Access, 2018, 6, 77716-77724.	4.2	33
54	Stochastic Residential Energy Management System with Vehicle-to-Home and Photovoltaic Penetration. , 2018, , .		4

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55	A Novel Dynamic Cloud Service Trust Evaluation Model in Cloud Computing. , 2018, , .		26
56	Optimal integration of MBESSs/SBESSs in distribution systems with renewables. IET Renewable Power Generation, 2018, 12, 1172-1179.	3.1	19
57	Blockchain: a secure, decentralized, trusted cyber infrastructure solution for future energy systems. Journal of Modern Power Systems and Clean Energy, 2018, 6, 958-967.	5.4	139
58	Coordinated residential energy resource scheduling with vehicleâ€toâ€home and high photovoltaic penetrations. IET Renewable Power Generation, 2018, 12, 625-632.	3.1	33
59	Distributed residential energy resource scheduling with renewable uncertainties. IET Generation, Transmission and Distribution, 2018, 12, 2770-2777.	2.5	14
60	An Operational Planning Framework for Large-Scale Thermostatically Controlled Load Dispatch. IEEE Transactions on Industrial Informatics, 2017, 13, 217-227.	11.3	66
61	A Review of False Data Injection Attacks Against Modern Power Systems. IEEE Transactions on Smart Grid, 2017, 8, 1630-1638.	9.0	652
62	A New QoS-Aware Web Service Recommendation System Based on Contextual Feature Recognition at Server-Side. IEEE Transactions on Network and Service Management, 2017, 14, 332-342.	4.9	40
63	The 2015 Ukraine Blackout: Implications for False Data Injection Attacks. IEEE Transactions on Power Systems, 2017, 32, 3317-3318.	6.5	783
64	Real-Time Decision Making Model for Thermostatically Controlled Load Aggregators by Natural Aggregation Algorithm. , 2017, , .		7
65	Nonâ€intrusive energy saving appliance recommender system for smart grid residential users. IET Generation, Transmission and Distribution, 2017, 11, 1786-1793.	2.5	57
66	Smart home energy management with vehicle-to-home technology. , 2017, , .		10
67	A Location and Reputation Aware Matrix Factorization Approach for Personalized Quality of Service Prediction. , 2017, , .		22
68	Multiagent-Based Cooperative Control Framework for Microgridsâ€™ Energy Imbalance. IEEE Transactions on Industrial Informatics, 2017, 13, 1046-1056.	11.3	47
69	Operational Planning of Electric Vehicles for Balancing Wind Power and Load Fluctuations in a Microgrid. IEEE Transactions on Sustainable Energy, 2017, 8, 592-604.	8.8	109
70	Effect of automatic hyperparameter tuning for residential load forecasting via deep learning. , 2017, , .		15
71	False data injection attacks targeting DC model-based state estimation. , 2017, , .		7
72	Composite FDIA and topology attack on the electricity market. , 2017, , .		4

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73	Rolling horizon optimization for real-time operation of thermostatically controlled load aggregator. Journal of Modern Power Systems and Clean Energy, 2017, 5, 947-958.	5.4	12
74	Stochastic residential energy resource scheduling by multi-objective natural aggregation algorithm. , 2017, , .		10
75	Personalized Movie Recommendation System Based on Support Vector Machine and Improved Particle Swarm Optimization. IEICE Transactions on Information and Systems, 2017, E100.D, 285-293.	0.7	12
76	Optimal operation scheduling for microgrid with high penetrations of solar power and thermostatically controlled loads. Science and Technology for the Built Environment, 2016, 22, 666-673.	1.7	18
77	Coordinated dispatch of networked energy storage systems for loading management in active distribution networks. IET Renewable Power Generation, 2016, 10, 1374-1381.	3.1	21
78	Distributed control of air-conditioning loads for voltage regulation in active distribution network. , 2016, , .		3
79	A new model-based Web service clustering algorithm. , 2016, , .		4
80	Stochastic collaborative planning method for electric vehicle charging stations. , 2016, , .		2
81	Consensus-driven distributed control of battery energy storage systems for loading management in distribution networks. , 2016, , .		0
82	Risk constrained battery energy storage planning in active distribution networks. , 2016, , .		3
83	Natural aggregation algorithm: A new efficient metaheuristic tool for power system optimizations. , 2016, , .		29
84	A distributed control for active power curtailment within a wind farm based on ratio consensus algorithms. , 2016, , .		0
85	A new metaheuristic algorithm for real-parameter optimization: Natural aggregation algorithm. , 2016, , .		50
86	Selfâ€adaptive differential approach for transient stability constrained optimal power flow. IET Generation, Transmission and Distribution, 2016, 10, 3717-3726.	2.5	11
87	Impact analysis of false data injection attacks on power system static security assessment. Journal of Modern Power Systems and Clean Energy, 2016, 4, 496-505.	5.4	58
88	Optimal allocation of battery energy storage systems in distribution networks with high wind power penetration. IET Renewable Power Generation, 2016, 10, 1105-1113.	3.1	132
89	Reliability evaluation of distribution systems with mobile energy storage systems. IET Renewable Power Generation, 2016, 10, 1562-1569.	3.1	74
90	Optimal wind turbine and air conditioner loads control in distribution networks through MILP approach. , 2016, , .		0

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91	Improving Nonintrusive Load Monitoring Efficiency via a Hybrid Programing Method. IEEE Transactions on Industrial Informatics, 2016, 12, 2148-2157.	11.3	72
92	Data Driven Development Trend Analysis of Mainstream Information Technologies. , 2016, , .		1
93	Service Recommendation in Smart Grid: Vision, Technologies, and Applications. , 2016, , .		22
94	Collector System Layout Optimization Framework for Large-Scale Offshore Wind Farms. IEEE Transactions on Sustainable Energy, 2016, 7, 1398-1407.	8.8	44
95	A Probabilistic Transmission Planning Framework for Reducing Network Vulnerability to Extreme Events. IEEE Transactions on Power Systems, 2016, 31, 3829-3839.	6.5	28
96	Short‐term operational planning framework for virtual power plants with high renewable penetrations. IET Renewable Power Generation, 2016, 10, 623-633.	3.1	88
97	A Risk-Based Approach to Multi-Stage Probabilistic Transmission Network Planning. IEEE Transactions on Power Systems, 2016, 31, 4867-4876.	6.5	36
98	Cloud-Based Information Infrastructure for Next-Generation Power Grid: Conception, Architecture, and Applications. IEEE Transactions on Smart Grid, 2016, 7, 1896-1912.	9.0	77
99	Optimal Dispatch of Air Conditioner Loads in Southern China Region by Direct Load Control. IEEE Transactions on Smart Grid, 2016, 7, 439-450.	9.0	71
100	A Personalized Electronic Movie Recommendation System Based on Support Vector Machine and Improved Particle Swarm Optimization. PLoS ONE, 2016, 11, e0165868.	2.5	14
101	A MILP approach to accommodate more Building Integrated Photovoltaic system in distribution network. , 2015, , .		6
102	Flexible transmission expansion planning associated with large‐scale wind farms integration considering demand response. IET Generation, Transmission and Distribution, 2015, 9, 2276-2283.	2.5	76
103	Advanced Pattern Discovery-based Fuzzy Classification Method for Power System Dynamic Security Assessment. IEEE Transactions on Industrial Informatics, 2015, 11, 416-426.	11.3	44
104	A low-carbon oriented probabilistic approach for transmission expansion planning. Journal of Modern Power Systems and Clean Energy, 2015, 3, 14-23.	5.4	14
105	Expansion co-planning for shale gas integration in a combined energy market. Journal of Modern Power Systems and Clean Energy, 2015, 3, 302-311.	5.4	18
106	Efficient real-time residential energy management through MILP based rolling horizon optimization. , 2015, , .		21
107	Optimal integration of mobile battery energy storage in distribution system with renewables. Journal of Modern Power Systems and Clean Energy, 2015, 3, 589-596.	5.4	30
108	Enabling the big data analysis in the smart grid. , 2015, , .		16

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109	Coordinated Operational Planning for Wind Farm With Battery Energy Storage System. IEEE Transactions on Sustainable Energy, 2015, 6, 253-262.	8.8	198
110	Personalized Recommendation System Based on Support Vector Machine and Particle Swarm Optimization. Lecture Notes in Computer Science, 2015, , 489-495.	1.3	6
111	Direct load control by distributed imperialist competitive algorithm. Journal of Modern Power Systems and Clean Energy, 2014, 2, 385-395.	5.4	24
112	Parallelâ€differential evolution approach for optimal eventâ€driven load shedding against voltage collapse in power systems. IET Generation, Transmission and Distribution, 2014, 8, 651-660.	2.5	47
113	Distributed optimal dispatch of virtual power plant based on ELM transformation. Journal of Industrial and Management Optimization, 2014, 10, 1297-1318.	1.3	30
114	Assessing the Transmission Expansion Cost With Distributed Generation: An Australian Case Study. IEEE Transactions on Smart Grid, 2014, 5, 1892-1904.	9.0	31
115	Power system fault diagnosis based on history driven differential evolution and stochastic time domain simulation. Information Sciences, 2014, 275, 13-29.	6.9	60
116	A hierarchical optimization framework for aggregating thermostatically controlled loads to minimize real-time thermal rating of overhead distribution lines. , 2014, , .		3
117	A novel technique for the optimal design of offshore wind farm electrical layout. Journal of Modern Power Systems and Clean Energy, 2013, 1, 258-263.	5.4	21
118	Impacts of emission trading schemes on GENCOsâ€™ decision making under multimarket environment. Electric Power Systems Research, 2013, 95, 257-267.	3.6	9
119	Demand response through smart home energy management using thermal inertia. , 2013, , .		20
120	A Multimarket Decision-Making Framework for GENCO Considering Emission Trading Scheme. IEEE Transactions on Power Systems, 2013, 28, 4099-4108.	6.5	31
121	Hybrid cloud computing platform: The next generation IT backbone for smart grid. , 2012, , .		8
122	Preventive Dynamic Security Control of Power Systems Based on Pattern Discovery Technique. IEEE Transactions on Power Systems, 2012, 27, 1236-1244.	6.5	53
123	Cumulant-based probabilistic load flow calculation in a market environment. , 2011, , .		1
124	Speed-up the computing efficiency of power system simulator for engineering-based power system transient stability simulations. IET Generation, Transmission and Distribution, 2010, 4, 652.	2.5	55
125	Mobile energyâ€toâ€home integration: An adaption of mobility as aÂservice in urban energy systems. IET Energy Systems Integration, 0, , .	1.8	0