# Fengji Luo

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 125<br>papers | 6,300<br>citations | 76196<br>40<br>h-index | 71532<br>76<br>g-index |
| 125<br>all docs | 125<br>docs citations | 125<br>times ranked | 5439<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 1 | The 2015 Ukraine Blackout: Implications for False Data Injection Attacks. IEEE Transactions on Power Systems, 2017, 32, 3317-3318. | 4.6 | 783 |
| 2 | A Review of False Data Injection Attacks Against Modern Power Systems. IEEE Transactions on Smart Grid, 2017, 8, 1630-1638. | 6.2 | 652 |
| 3 | Short-Term Residential Load Forecasting Based on Resident Behaviour Learning. IEEE Transactions on Power Systems, 2018, 33, 1087-1088. | 4.6 | 440 |
| 4 | Distributed Blockchain-Based Data Protection Framework for Modern Power Systems Against Cyber Attacks. IEEE Transactions on Smart Grid, 2019, 10, 3162-3173. | 6.2 | 272 |
| 5 | 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. | 4.6 | 217 |
| 6 | Coordinated Operational Planning for Wind Farm With Battery Energy Storage System. IEEE Transactions on Sustainable Energy, 2015, 6, 253-262. | 5.9 | 198 |
| 7 | Stochastic Collaborative Planning of Electric Vehicle Charging Stations and Power Distribution System. IEEE Transactions on Industrial Informatics, 2018, 14, 321-331. | 7.2 | 140 |
| 8 | An Extensible Approach for Non-Intrusive Load Disaggregation With Smart Meter Data. IEEE Transactions on Smart Grid, 2018, 9, 3362-3372. | 6.2 | 139 |
| 9 | Blockchain: a secure, decentralized, trusted cyber infrastructure solution for future energy systems. Journal of Modern Power Systems and Clean Energy, 2018, 6, 958-967. | 3.3 | 139 |
| 10 | Optimal allocation of battery energy storage systems in distribution networks with high wind power penetration. IET Renewable Power Generation, 2016, 10, 1105-1113. | 1.7 | 132 |
| 11 | A Multistage Home Energy Management System With Residential Photovoltaic Penetration. IEEE Transactions on Industrial Informatics, 2019, 15, 116-126. | 7.2 | 110 |
| 12 | Operational Planning of Electric Vehicles for Balancing Wind Power and Load Fluctuations in a Microgrid. IEEE Transactions on Sustainable Energy, 2017, 8, 592-604. | 5.9 | 109 |
| 13 | Decision-Making for Electricity Retailers: A Brief Survey. IEEE Transactions on Smart Grid, 2018, 9, 4140-4153. | 6.2 | 102 |
| 14 | Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. IEEE Transactions on Smart Grid, 2020, 11, 4-14. | 6.2 | 100 |
| 15 | Short‐term operational planning framework for virtual power plants with high renewable penetrations. IET Renewable Power Generation, 2016, 10, 623-633. | 1.7 | 88 |
| 16 | Optimal Operation of Battery Energy Storage System Considering Distribution System Uncertainty. IEEE Transactions on Sustainable Energy, 2018, 9, 1051-1060. | 5.9 | 87 |
| 17 | Operational Planning of Centralized Charging Stations Utilizing Second-Life Battery Energy Storage Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 387-399. | 5.9 | 82 |
| 18 | Cloud-Based Information Infrastructure for Next-Generation Power Grid: Conception, Architecture, and Applications. IEEE Transactions on Smart Grid, 2016, 7, 1896-1912. | 6.2 | 77 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A Framework for Cyber-Topology Attacks: Line-Switching and New Attack Scenarios. IEEE Transactions on Smart Grid, 2019, 10, 1704-1712. | 6.2 | 77 |
| 20 | Flexible transmission expansion planning associated with large‐scale wind farms integration considering demand response. IET Generation, Transmission and Distribution, 2015, 9, 2276-2283. | 1.4 | 76 |
| 21 | Reliability evaluation of distribution systems with mobile energy storage systems. IET Renewable Power Generation, 2016, 10, 1562-1569. | 1.7 | 74 |
| 22 | Improving Nonintrusive Load Monitoring Efficiency via a Hybrid Programing Method. IEEE Transactions on Industrial Informatics, 2016, 12, 2148-2157. | 7.2 | 72 |
| 23 | Optimal Dispatch of Air Conditioner Loads in Southern China Region by Direct Load Control. IEEE Transactions on Smart Grid, 2016, 7, 439-450. | 6.2 | 71 |
| 24 | SPB: A Secure Private Blockchain-Based Solution for Distributed Energy Trading. IEEE Communications Magazine, 2019, 57, 120-126. | 4.9 | 69 |
| 25 | Generalized FDIA-Based Cyber Topology Attack With Application to the Australian Electricity Market Trading Mechanism. IEEE Transactions on Smart Grid, 2018, 9, 3820-3829. | 6.2 | 68 |
| 26 | An Operational Planning Framework for Large-Scale Thermostatically Controlled Load Dispatch. IEEE Transactions on Industrial Informatics, 2017, 13, 217-227. | 7.2 | 66 |
| 27 | Power system fault diagnosis based on history driven differential evolution and stochastic time domain simulation. Information Sciences, 2014, 275, 13-29. | 4.0 | 60 |
| 28 | Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System. IEEE Transactions on Smart Grid, 2020, 11, 602-611. | 6.2 | 60 |
| 29 | 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. | 3.3 | 58 |
| 30 | Non‐intrusive energy saving appliance recommender system for smart grid residential users. IET Generation, Transmission and Distribution, 2017, 11, 1786-1793. | 1.4 | 57 |
| 31 | Social Information Filtering-Based Electricity Retail Plan Recommender System for Smart Grid End Users. IEEE Transactions on Smart Grid, 2019, 10, 95-104. | 6.2 | 56 |
| 32 | 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. | 1.4 | 55 |
| 33 | Preventive Dynamic Security Control of Power Systems Based on Pattern Discovery Technique. IEEE Transactions on Power Systems, 2012, 27, 1236-1244. | 4.6 | 53 |
| 34 | A new metaheuristic algorithm for real-parameter optimization: Natural aggregation algorithm. , 2016, , . | | 50 |
| 35 | Integrated planning of internet data centers and battery energy storage systems in smart grids. Applied Energy, 2021, 281, 116093. | 5.1 | 49 |
| 36 | Hierarchical Energy Management System for Home Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 5536-5546. | 6.2 | 48 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | Parallel-differential evolution approach for optimal event-driven load shedding against voltage collapse in power systems. IET Generation, Transmission and Distribution, 2014, 8, 651-660. | 1.4 | 47 |
| 38 | Multiagent-Based Cooperative Control Framework for Microgrids' Energy Imbalance. IEEE Transactions on Industrial Informatics, 2017, 13, 1046-1056. | 7.2 | 47 |
| 39 | Advanced Pattern Discovery-based Fuzzy Classification Method for Power System Dynamic Security Assessment. IEEE Transactions on Industrial Informatics, 2015, 11, 416-426. | 7.2 | 44 |
| 40 | Collector System Layout Optimization Framework for Large-Scale Offshore Wind Farms. IEEE Transactions on Sustainable Energy, 2016, 7, 1398-1407. | 5.9 | 44 |
| 41 | Joint planning of active distribution networks considering renewable power uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 110, 696-704. | 3.3 | 44 |
| 42 | 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. | 3.2 | 40 |
| 43 | Integrated energy systems of data centers and smart grids: State-of-the-art and future opportunities. Applied Energy, 2021, 301, 117474. | 5.1 | 39 |
| 44 | A Risk-Based Approach to Multi-Stage Probabilistic Transmission Network Planning. IEEE Transactions on Power Systems, 2016, 31, 4867-4876. | 4.6 | 36 |
| 45 | Time-Aware QoS Prediction for Cloud Service Recommendation Based on Matrix Factorization. IEEE Access, 2018, 6, 77716-77724. | 2.6 | 33 |
| 46 | Coordinated residential energy resource scheduling with vehicle-to-home and high photovoltaic penetrations. IET Renewable Power Generation, 2018, 12, 625-632. | 1.7 | 33 |
| 47 | Distributed meter data aggregation framework based on Blockchain and homomorphic encryption. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 30-37. | 1.9 | 32 |
| 48 | Personalized Residential Energy Usage Recommendation System Based on Load Monitoring and Collaborative Filtering. IEEE Transactions on Industrial Informatics, 2021, 17, 1253-1262. | 7.2 | 32 |
| 49 | A Multimarket Decision-Making Framework for GENCO Considering Emission Trading Scheme. IEEE Transactions on Power Systems, 2013, 28, 4099-4108. | 4.6 | 31 |
| 50 | Assessing the Transmission Expansion Cost With Distributed Generation: An Australian Case Study. IEEE Transactions on Smart Grid, 2014, 5, 1892-1904. | 6.2 | 31 |
| 51 | Distributed optimal dispatch of virtual power plant based on ELM transformation. Journal of Industrial and Management Optimization, 2014, 10, 1297-1318. | 0.8 | 30 |
| 52 | Optimal integration of mobile battery energy storage in distribution system with renewables. Journal of Modern Power Systems and Clean Energy, 2015, 3, 589-596. | 3.3 | 30 |
| 53 | Natural aggregation algorithm: A new efficient metaheuristic tool for power system optimizations. , 2016, , . | | 29 |
| 54 | A Probabilistic Transmission Planning Framework for Reducing Network Vulnerability to Extreme Events. IEEE Transactions on Power Systems, 2016, 31, 3829-3839. | 4.6 | 28 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 55 | A Novel Dynamic Cloud Service Trust Evaluation Model in Cloud Computing. , 2018, , . | | 26 |
| 56 | 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. | 3.3 | 25 |
| 57 | Direct load control by distributed imperialist competitive algorithm. Journal of Modern Power Systems and Clean Energy, 2014, 2, 385-395. | 3.3 | 24 |
| 58 | Service Recommendation in Smart Grid: Vision, Technologies, and Applications. , 2016, , . | | 22 |
| 59 | A Location and Reputation Aware Matrix Factorization Approach for Personalized Quality of Service Prediction. , 2017, , . | | 22 |
| 60 | 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. | 3.3 | 21 |
| 61 | Efficient real-time residential energy management through MILP based rolling horizon optimization. , 2015, , . | | 21 |
| 62 | Coordinated dispatch of networked energy storage systems for loading management in active distribution networks. IET Renewable Power Generation, 2016, 10, 1374-1381. | 1.7 | 21 |
| 63 | 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. | 6.2 | 21 |
| 64 | Demand response through smart home energy management using thermal inertia. , 2013, , . | | 20 |
| 65 | Optimal integration of MBESSs/SBESSs in distribution systems with renewables. IET Renewable Power Generation, 2018, 12, 1172-1179. | 1.7 | 19 |
| 66 | Expansion co-planning for shale gas integration in a combined energy market. Journal of Modern Power Systems and Clean Energy, 2015, 3, 302-311. | 3.3 | 18 |
| 67 | 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. | 0.8 | 18 |
| 68 | 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. | 3.3 | 18 |
| 69 | Multi-Agent-Based Voltage Regulation Scheme for High Photovoltaic Penetrated Active Distribution Networks Using Battery Energy Storage Systems. IEEE Access, 2020, 8, 7323-7333. | 2.6 | 17 |
| 70 | Enabling the big data analysis in the smart grid. , 2015, , . | | 16 |
| 71 | 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. | 5.3 | 16 |
| 72 | Effect of automatic hyperparameter tuning for residential load forecasting via deep learning. , 2017, , . | | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A low-carbon oriented probabilistic approach for transmission expansion planning. Journal of Modern Power Systems and Clean Energy, 2015, 3, 14-23. | 3.3 | 14 |
| 74 | Distributed residential energy resource scheduling with renewable uncertainties. IET Generation, Transmission and Distribution, 2018, 12, 2770-2777. | 1.4 | 14 |
| 75 | A Personalized Electronic Movie Recommendation System Based on Support Vector Machine and Improved Particle Swarm Optimization. PLoS ONE, 2016, 11, e0165868. | 1.1 | 14 |
| 76 | Temporary immutability: A removable blockchain solution for prosumer-side energy trading. Journal of Network and Computer Applications, 2021, 180, 103018. | 5.8 | 13 |
| 77 | Short-Term Residential Load Forecasting Based on Federated Learning and Load Clustering. , 2021, , . | | 13 |
| 78 | Rolling horizon optimization for real-time operation of thermostatically controlled load aggregator. Journal of Modern Power Systems and Clean Energy, 2017, 5, 947-958. | 3.3 | 12 |
| 79 | 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. | 0.4 | 12 |
| 80 | Coordinated residential energy resource scheduling with human thermal comfort modelling and renewable uncertainties. IET Generation, Transmission and Distribution, 2019, 13, 1768-1776. | 1.4 | 12 |
| 81 | Many-Objective HEMS Based on Multi-Scale Occupant Satisfaction Modelling and Second-Life BESS Utilization. IEEE Transactions on Sustainable Energy, 2022, 13, 934-947. | 5.9 | 12 |
| 82 | Self-adaptive differential approach for transient stability constrained optimal power flow. IET Generation, Transmission and Distribution, 2016, 10, 3717-3726. | 1.4 | 11 |
| 83 | Planning of electric vehicle charging stations and distribution system with highly renewable penetrations. IET Electrical Systems in Transportation, 2021, 11, 256-268. | 1.5 | 11 |
| 84 | 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. | 1.1 | 11 |
| 85 | Smart home energy management with vehicle-to-home technology. , 2017, , . | | 10 |
| 86 | Stochastic residential energy resource scheduling by multi-objective natural aggregation algorithm. , 2017, , . | | 10 |
| 87 | Impacts of emission trading schemes on GENCOs' decision making under multimarket environment. Electric Power Systems Research, 2013, 95, 257-267. | 2.1 | 9 |
| 88 | A social relationship preference aware peer-to-peer energy market for urban energy prosumers and consumers. IET Renewable Power Generation, 2022, 16, 688-699. | 1.7 | 9 |
| 89 | Hybrid cloud computing platform: The next generation IT backbone for smart grid. , 2012, , . | | 8 |
| 90 | Real-Time Decision Making Model for Thermostatically Controlled Load Aggregators by Natural Aggregation Algorithm. , 2017, , . | | 7 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 91 | False data injection attacks targeting DC model-based state estimation. , 2017, , . | | 7 |
| 92 | A MILP approach to accommodate more Building Integrated Photovoltaic system in distribution network. , 2015, , . | | 6 |
| 93 | Power Big Data: New Assets of Electric Power Utilities. Journal of Energy Engineering - ASCE, 2019, 145, . | 1.0 | 6 |
| 94 | Hierarchical energy management scheme for residential communities under grid outage event. IET Smart Grid, 2020, 3, 174-181. | 1.5 | 6 |
| 95 | Personalized Recommendation System Based on Support Vector Machine and Particle Swarm Optimization. Lecture Notes in Computer Science, 2015, , 489-495. | 1.0 | 6 |
| 96 | Transferrable Model-Agnostic Meta-learning for Short-Term Household Load Forecasting With Limited Training Data. IEEE Transactions on Power Systems, 2022, 37, 3177-3180. | 4.6 | 6 |
| 97 | HHFS: A Hybrid Hierarchical Feature Selection Method for Ageing Gene Classification. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 690-699. | 2.6 | 6 |
| 98 | Resilient Energy Management for Residential Communities under Grid Outages. , 2019, , . | | 5 |
| 99 | Aggregating buildings as a virtual power plant: Architectural design, supporting technologies, and case studies. IET Energy Systems Integration, 2022, 4, 423-435. | 1.1 | 5 |
| 100 | A new model-based Web service clustering algorithm. , 2016, , . | | 4 |
| 101 | Composite FDIA and topology attack on the electricity market. , 2017, , . | | 4 |
| 102 | Stochastic Residential Energy Management System with Vehicle-to-Home and Photovoltaic Penetration. , 2018, , . | | 4 |
| 103 | Distribution planning of mobile battery energy storage systems for grid outage support to urban residents. IET Energy Systems Integration, 2022, 4, 87-97. | 1.1 | 4 |
| 104 | False Data Injection- and Propagation-Aware Game Theoretical Approach for Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 3342-3353. | 6.2 | 4 |
| 105 | A hierarchical optimization framework for aggregating thermostatically controlled loads to minimize real-time thermal rating of overhead distribution lines. , 2014, , . | | 3 |
| 106 | Distributed control of air-conditioning loads for voltage regulation in active distribution network. , 2016, , . | | 3 |
| 107 | Risk constrained battery energy storage planning in active distribution networks. , 2016, , . | | 3 |
| 108 | An Efficient Hybrid IDS Deployment Architecture for Multi-Hop Clustered Wireless Sensor Networks. IEEE Transactions on Information Forensics and Security, 2022, 17, 2688-2702. | 4.5 | 3 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 109 | Stochastic collaborative planning method for electric vehicle charging stations. , 2016, , . | | 2 |
| 110 | An Advanced Persistent Distributed Denial-of-Service Attack Model With Reverse-Path Forwarding-Based Defending Strategy. IEEE Access, 2019, 7, 185590-185596. | 2.6 | 2 |
| 111 | Realâ€time energy management system for public laundries with demand charge tariff. Journal of Engineering, 2021, 2021, 49-59. | 0.6 | 2 |
| 112 | Integrated Household Appliance Scheduling With Modeling of Occupant Satisfaction and Appliance Heat Gain. Frontiers in Energy Research, 2021, 9, . | 1.2 | 2 |
| 113 | Personalized Home BESS Recommender System Based on Neural Collaborative Filtering. , 2022, , . | | 2 |
| 114 | Dualâ€blockchainâ€based P2P energy trading system with an improved optimistic rollup mechanism. IET Smart Grid, 2022, 5, 246-259. | 1.5 | 2 |
| 115 | Cumulant-based probabilistic load flow calculation in a market environment. , 2011, , . | | 1 |
| 116 | Data Driven Development Trend Analysis of Mainstream Information Technologies. , 2016, , . | | 1 |
| 117 | Load forecasting in the short-term scheduling of DERs. , 2021, , 389-417. | | 1 |
| 118 | Transactive Operational Framework for Internet Data Centers in Geo-Distributed Local Energy Markets. IEEE Transactions on Cloud Computing, 2022, , 1-1. | 3.1 | 1 |
| 119 | Blockchain technologies empowering peerâ€toâ€peer trading in multiâ€energy systems: From advanced technologies towards applications. IET Smart Grid, 2022, 5, 219-222. | 1.5 | 1 |
| 120 | Consensus-driven distributed control of battery energy storage systems for loading management in distribution networks. , 2016, , . | | 0 |
| 121 | A distributed control for active power curtailment within a wind farm based on ratio consensus algorithms. , 2016, , . | | 0 |
| 122 | Optimal wind turbine and air conditioner loads control in distribution networks through MILP approach. , 2016, , . | | 0 |
| 123 | Advanced Cyber-Physical Infrastructures of Next-Generation Grids with Big Data Penetrati ons. Journal of Energy Engineering - ASCE, 2020, 146, 02019002. | 1.0 | 0 |
| 124 | SocialBully: A Social Information-Driven Cyberbullying Detector with Similarity-Based Word Embedding. , 2021, , . | | 0 |
| 125 | Mobile energyâ€toâ€home integration: An adaption of mobility as aÂ service in urban energy systems. IET Energy Systems Integration, 0, , . | 1.1 | 0 |