

# Fei Teng

## List of Publications by Year in descending order

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96  
papers

2,865  
citations

136950

32  
h-index

197818

49  
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all docs

96  
docs citations

96  
times ranked

2065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic Scheduling With Inertia-Dependent Fast Frequency Response Requirements. IEEE Transactions on Power Systems, 2016, 31, 1557-1566.	6.5	235
2	A Deep Learning-Based Remaining Useful Life Prediction Approach for Bearings. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1243-1254.	5.8	127
3	Modeling Frequency Dynamics in Unit Commitment With a High Share of Renewable Energy. IEEE Transactions on Power Systems, 2020, 35, 4383-4395.	6.5	125
4	Assessment of the Role and Value of Frequency Response Support From Wind Plants. IEEE Transactions on Sustainable Energy, 2016, 7, 586-595.	8.8	123
5	Simultaneous Scheduling of Multiple Frequency Services in Stochastic Unit Commitment. IEEE Transactions on Power Systems, 2019, 34, 3858-3868.	6.5	111
6	Towards Optimal System Scheduling With Synthetic Inertia Provision From Wind Turbines. IEEE Transactions on Power Systems, 2020, 35, 4056-4066.	6.5	77
7	Uncertainty Tracing of Distributed Generations via Complex Affine Arithmetic Based Unbalanced Three-Phase Power Flow. IEEE Transactions on Power Systems, 2015, 30, 3053-3062.	6.5	73
8	Opportunities for Energy Storage: Assessing Whole-System Economic Benefits of Energy Storage in Future Electricity Systems. IEEE Power and Energy Magazine, 2017, 15, 32-41.	1.6	71
9	Benefits of flexibility from smart electrified transportation and heating in the future UK electricity system. Applied Energy, 2016, 167, 420-431.	10.1	68
10	Technical Review on Advanced Approaches for Electric Vehicle Charging Demand Management, Part I: Applications in Electric Power Market and Renewable Energy Integration. IEEE Transactions on Industry Applications, 2020, 56, 5684-5694.	4.9	63
11	Clustering-Based Residential Baseline Estimation: A Probabilistic Perspective. IEEE Transactions on Smart Grid, 2019, 10, 6014-6028.	9.0	62
12	Challenges on primary frequency control and potential solution from EVs in the future GB electricity system. Applied Energy, 2017, 194, 353-362.	10.1	61
13	Scenario generation of aggregated Wind, Photovoltaics and small Hydro production for power systems applications. Applied Energy, 2019, 242, 1396-1406.	10.1	59
14	Whole-System Assessment of the Benefits of Integrated Electricity and Heat System. IEEE Transactions on Smart Grid, 2019, 10, 1132-1145.	9.0	59
15	Technical Review on Advanced Approaches for Electric Vehicle Charging Demand Management, Part II: Applications in Transportation System Coordination and Infrastructure Planning. IEEE Transactions on Industry Applications, 2020, 56, 5695-5703.	4.9	55
16	Understanding the Benefits of Dynamic Line Rating Under Multiple Sources of Uncertainty. IEEE Transactions on Power Systems, 2018, 33, 3306-3314.	6.5	52
17	Price Incentive-Based Charging Navigation Strategy for Electric Vehicles. IEEE Transactions on Industry Applications, 2020, 56, 5762-5774.	4.9	52
18	Challenges and opportunities of inertia estimation and forecasting in low-inertia power systems. Renewable and Sustainable Energy Reviews, 2021, 147, 111176.	16.4	46

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19	Electric vehicle charging in smart grid: A spatial-temporal simulation method. <i>Energy</i> , 2019, 189, 116221.	8.8	45
20	Resilient Secondary Voltage Control of Islanded Microgrids: An ESKBF-Based Distributed Fast Terminal Sliding Mode Control Approach. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 1059-1070.	6.5	45
21	An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources. <i>Energy</i> , 2018, 145, 871-885.	8.8	44
22	Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 2709-2721.	9.0	43
23	Role and Benefits of Flexible Thermostatically Controlled Loads in Future Low-Carbon Systems. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 5067-5079.	9.0	42
24	Benefits of Demand-Side Response in Providing Frequency Response Service in the Future GB Power System. <i>Frontiers in Energy Research</i> , 2015, 3, .	2.3	41
25	Frequency-Constrained Stochastic Planning Towards a High Renewable Target Considering Frequency Response Support From Wind Power. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 4632-4644.	6.5	41
26	Data-Driven Representative Day Selection for Investment Decisions: A Cost-Oriented Approach. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 2925-2936.	6.5	40
27	Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 4459-4469.	6.5	40
28	Evaluating the Dispatchable Capacity of Base Station Backup Batteries in Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2021, 12, 3966-3979.	9.0	40
29	An affine arithmetic-based multi-objective optimization method for energy storage systems operating in active distribution networks with uncertainties. <i>Applied Energy</i> , 2018, 223, 215-228.	10.1	39
30	Economic assessment of alternative heat decarbonisation strategies through coordinated operation with electricity system – UK case study. <i>Applied Energy</i> , 2018, 222, 79-91.	10.1	38
31	Multi-objective optimal allocation of distributed generations under uncertainty based on D-S evidence theory and affine arithmetic. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 112, 70-82.	5.5	38
32	Role and value of flexibility in facilitating cost-effective energy system decarbonisation. <i>Progress in Energy</i> , 2020, 2, 042001.	10.9	35
33	Full Stochastic Scheduling for Low-Carbon Electricity Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 461-470.	5.2	34
34	Cost and low-carbon competitiveness of electrolytic hydrogen in China. <i>Energy and Environmental Science</i> , 2021, 14, 4868-4881.	30.8	34
35	Business cases for energy storage with multiple service provision. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016, 4, 615-625.	5.4	32
36	Conditions for Regional Frequency Stability in Power System Scheduling – Part I: Theory. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 5558-5566.	6.5	31

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37	Event-triggered distributed model predictive control for resilient voltage control of an islanded microgrid. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 1979-2000.	3.7	30
38	Frequency-Constrained Resilient Scheduling of Microgrid: A Distributionally Robust Approach. <i>IEEE Transactions on Smart Grid</i> , 2021, 12, 4914-4925.	9.0	30
39	Pricing inertia and Frequency Response with diverse dynamics in a Mixed-Integer Second-Order Cone Programming formulation. <i>Applied Energy</i> , 2020, 260, 114334.	10.1	28
40	A system operator's utility function for the frequency response market. <i>Applied Energy</i> , 2018, 231, 562-569.	10.1	26
41	Stealthy MTD Against Unsupervised Learning-Based Blind FDI Attacks in Power Systems. <i>IEEE Transactions on Information Forensics and Security</i> , 2021, 16, 1275-1287.	6.9	26
42	A resilience-oriented centralised-to-decentralised framework for networked microgrids management. <i>Applied Energy</i> , 2022, 308, 118234.	10.1	26
43	Tracing harmonic contributions of multiple distributed generations in distribution systems with uncertainty. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 95, 585-591.	5.5	25
44	Fast Frequency Response From Smart Induction Motor Variable Speed Drives. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 997-1008.	6.5	23
45	Improved Interval Optimization Method Based on Differential Evolution for Microgrid Economic Dispatch. <i>Electric Power Components and Systems</i> , 2015, 43, 1882-1890.	1.8	22
46	Decentralized Data-Driven Load Restoration in Coupled Transmission and Distribution System With Wind Power. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 4435-4444.	6.5	21
47	Quantifying the Potential Economic Benefits of Flexible Industrial Demand in the European Power System. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5123-5132.	11.3	20
48	Conditions for Regional Frequency Stability in Power System Scheduling—Part II: Application to Unit Commitment. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 5567-5577.	6.5	18
49	Charging Load Pattern Extraction for Residential Electric Vehicles: A Training-Free Nonintrusive Method. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 7028-7039.	11.3	17
50	An optimal modal coordination strategy based on modal superposition theory to mitigate low frequency oscillation in FCWG penetrated power systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 120, 105975.	5.5	17
51	Assessment of Future Whole-System Value of Large-Scale Pumped Storage Plants in Europe. <i>Energies</i> , 2018, 11, 246.	3.1	16
52	LSTM auto-encoder based representative scenario generation method for hybrid hydro-PV power system. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 5935-5943.	2.5	16
53	Priority-Driven Self-Optimizing Power Control Scheme for Interlinking Converters of Hybrid AC/DC Microgrid Clusters in Decentralized Manner. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 5970-5983.	7.9	16
54	Synthetic inertial control of wind farm with BESS based on model predictive control. <i>IET Renewable Power Generation</i> , 2020, 14, 2447-2455.	3.1	15

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55	Hierarchical service restoration scheme for active distribution networks based on ADMM. International Journal of Electrical Power and Energy Systems, 2020, 118, 105809.	5.5	14
56	Consumer-centric decarbonization framework using Stackelberg game and Blockchain. Applied Energy, 2022, 309, 118384.	10.1	14
57	Affine Arithmetic-based DC Power Flow for Automatic Contingency Selection with Consideration of Load and Generation Uncertainties. Electric Power Components and Systems, 2014, 42, 852-860.	1.8	13
58	Stability-Constrained Power System Scheduling: A Review. IEEE Access, 2020, 8, 219331-219343.	4.2	12
59	A Cyber-Secured Operation for Water-Energy Nexus. IEEE Transactions on Power Systems, 2021, 36, 3105-3117.	6.5	12
60	Privacy-Preserving Probabilistic Voltage Forecasting in Local Energy Communities. IEEE Transactions on Smart Grid, 2023, 14, 798-809.	9.0	12
61	Evaluation of Synthetic Inertia Provision from Wind Plants. , 2015, , .		11
62	Short Circuit Current Constrained UC in High IBG-Penetrated Power Systems. IEEE Transactions on Power Systems, 2021, 36, 3776-3785.	6.5	11
63	Potential value of energy storage in the UK electricity system. Proceedings of Institution of Civil Engineers: Energy, 2015, 168, 107-117.	0.6	10
64	Value of thermostatic loads in future low-carbon Great Britain system. , 2016, , .		10
65	Probabilistic Scheduling of UFLS to Secure Credible Contingencies in Low Inertia Systems. IEEE Transactions on Power Systems, 2022, 37, 2693-2703.	6.5	10
66	Challenges of Primary Frequency Control and Benefits of Primary Frequency Response Support from Electric Vehicles. Energy Procedia, 2016, 88, 985-990.	1.8	9
67	Towards Optimal Coordination Between Regional Groups: HVDC Supplementary Power Control. IEEE Transactions on Power Systems, 2022, 37, 402-415.	6.5	9
68	Provision of ancillary services in future low-carbon UK electricity system. , 2017, , .		8
69	Data-Driven Multi-Energy Investment and Management Under Earthquakes. IEEE Transactions on Industrial Informatics, 2021, 17, 6939-6950.	11.3	8
70	Probabilistic Day-Ahead Inertia Forecasting. IEEE Transactions on Power Systems, 2022, 37, 3738-3746.	6.5	8
71	Investment decision optimization for distribution network planning with correlation constraint. International Transactions on Electrical Energy Systems, 2020, 30, e12323.	1.9	7
72	Reliability-oriented optimal planning of charging stations in electricity-transportation coupled networks. IET Renewable Power Generation, 2020, 14, 3690-3698.	3.1	7

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73	Optimal Allocation of ESSs for Mitigating Fluctuation in Active Distribution Network. Energy Procedia, 2017, 142, 3572-3577.	1.8	6
74	Business case for distributed energy storage. CIRED - Open Access Proceedings Journal, 2017, 2017, 1605-1608.	0.1	6
75	Interval power flow calculation algorithm for multi-terminal dc distribution networks considering distributed generation output uncertainties. IET Generation, Transmission and Distribution, 2021, 15, 986-996.	2.5	6
76	Economic value of inertia in low-carbon power systems. , 2017, , .		5
77	Transition to Digitalized Paradigms for Security Control and Decentralized Electricity Market. Proceedings of the IEEE, 2023, 111, 744-761.	21.3	5
78	Assessment of the value of plant flexibility in low carbon energy system. , 2014, , .		4
79	Optimization of Heat Sector Decarbonization Strategy through Coordinated Operation with Electricity System. Energy Procedia, 2017, 142, 2858-2863.	1.8	4
80	Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. IEEE Transactions on Smart Grid, 2020, 11, 4938-4948.	9.0	4
81	Enhanced cyber-physical security using attack-resistant cyber nodes and event-triggered moving target defence. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 12-26.	3.3	4
82	Stochastic scheduling with inertia-dependent fast frequency response requirements. , 2016, , .		3
83	Optimal Scheduling of Frequency Services Considering a Variable Largest-Power-Infeed-Loss. , 2018, , .		3
84	Value of Fleet Vehicle to Grid in Providing Transmission System Operator Services. , 2020, , .		3
85	Distributed Secondary Control Strategy Against Bounded FDI Attacks for Microgrid With Layered Communication Network. Frontiers in Energy Research, 0, 10, .	2.3	3
86	Special Issue on Advanced Approaches and Applications for Electric Vehicle Charging Demand Management. IEEE Transactions on Industry Applications, 2020, 56, 5682-5683.	4.9	2
87	Market Value of Differentially-Private Smart Meter Data. , 2021, , .		2
88	Benchmarking Explanatory Models for Inertia Forecasting using Public Data of the Nordic Area. , 2022, , .		2
89	Impact of dynamic line rating with forecast error on the scheduling of reserve service. , 2016, , .		1
90	Quantitative evaluation of uncertainty mitigation by ESS via complex affine distribution power flow. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
91	Modelling of Dynamic Line Rating in System Scheduling: A MISOCP Formulation. , 2020, , .		1
92	Bi-level robust scheduling for multi-terminal DC distribution networks considering uncertainties of loads and renewable energies. International Journal of Electrical Power and Energy Systems, 2022, 137, 107899.	5.5	1
93	Cyber-Physical Disaster Response of Power Supply Using a Centralised-to-Distributed Framework. , 2021, , .		1
94	Commercial strategy for operating energy storage in supporting integration of renewable generation. , 2016, , .		0
95	Assessment of Frequency Support from Wind Turbines under Alternative Control Schemes. , 2019, , .		0
96	Estimation of Time-varying Frequency and its Rate of Change in Low-inertia Power Systems. , 2021, , .		0