

# Jiangfeng Zhang

## List of Publications by Year in descending order

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155  
papers

4,568  
citations

94433

37  
h-index

118850

62  
g-index

157  
all docs

157  
docs citations

157  
times ranked

4041  
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved multi-objective bacterial colony chemotaxis algorithm based on Pareto dominance. <i>Soft Computing</i> , 2022, 26, 69-87.	3.6	1
2	Low-carbon optimal planning of an integrated energy station considering combined power-to-gas and gas-fired units equipped with carbon capture systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 138, 107966.	5.5	30
3	A distributed and integrated control strategy for an islanded microgrid considering line loss and communication interruption. <i>ISA Transactions</i> , 2022, 129, 345-360.	5.7	2
4	Optimal scheduling of a hybrid AC/DC multi-energy microgrid considering uncertainties and Stackelberg game-based integrated demand response. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 142, 108341.	5.5	12
5	A review on resilience studies in active distribution systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110201.	16.4	102
6	Multi-objective economic dispatch with residential demand response programme under renewable obligation. <i>Energy</i> , 2021, 218, 119473.	8.8	38
7	Coordinated operation of coupled transportation and power distribution systems considering stochastic routing behaviour of electric vehicles and prediction error of travel demand. <i>IET Generation, Transmission and Distribution</i> , 2021, 15, 2112-2126.	2.5	6
8	Total load energy supply capability and security level classification of integrated power and natural gas systems considering N-1 contingency of power system. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12842.	1.9	1
9	Hybrid power plant bidding strategy for voltage stability improvement, electricity market profit maximization, and congestion management. <i>IET Energy Systems Integration</i> , 2021, 3, 130-141.	1.8	5
10	Non-cooperative game pricing strategy for maximizing social welfare in electrified transportation networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 130, 106980.	5.5	10
11	Application of small-scale compressed air energy storage in the daily operation of an active distribution system. <i>Energy</i> , 2021, 231, 120961.	8.8	10
12	Economic dispatch of multi-area integrated electricity and natural gas systems considering emission and hourly spinning reserve constraints. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 132, 107177.	5.5	10
13	Optimal Investment Decision for Cotton Farm Microgrid Design. , 2021, , .		2
14	A novel hybrid multi-objective bacterial colony chemotaxis algorithm. <i>Soft Computing</i> , 2020, 24, 2013-2032.	3.6	6
15	Risk-Constrained Bidding Strategy for a Joint Operation of Wind Power and CAES Aggregators. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 457-466.	8.8	42
16	Energy Management Strategy in Dynamic Distribution Network Reconfiguration Considering Renewable Energy Resources and Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 662-673.	8.8	116
17	Environmental economic dispatch of integrated regional energy system considering integrated demand response. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 116, 105525.	5.5	98
18	Risk-Oriented Multi-Area Economic Dispatch Solution With High Penetration of Wind Power Generation and Compressed Air Energy Storage System. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 1569-1578.	8.8	18

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19	A comparative study of clustering techniques for electrical load pattern segmentation. Renewable and Sustainable Energy Reviews, 2020, 120, 109628.	16.4	89
20	Optimal State-of-Charge Value for Charge-Sustaining Mode of Plug-In Hybrid Electric Vehicles. IEEE Access, 2020, 8, 187959-187964.	4.2	11
21	Cost Effective Offline Reconfiguration for Large-Scale Non-Uniformly Aging Photovoltaic Arrays Efficiency Enhancement. IEEE Access, 2020, 8, 80572-80581.	4.2	6
22	Module block fault locating strategy for large-scale photovoltaic arrays. Energy Conversion and Management, 2020, 214, 112898.	9.2	9
23	Bilateral negotiations for electricity market by adaptive agent-tracking strategy. Electric Power Systems Research, 2020, 186, 106390.	3.6	13
24	Matchmaking model for bilateral trading decisions of load serving entity. Electric Power Systems Research, 2020, 183, 106281.	3.6	5
25	A fault locating method for PV arrays based on improved voltage sensor placement. Solar Energy, 2020, 201, 279-297.	6.1	23
26	Dynamic Economic Dispatch With Maximal Renewable Penetration Under Renewable Obligation. IEEE Access, 2020, 8, 38794-38808.	4.2	29
27	Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. IEEE Transactions on Smart Grid, 2020, 11, 2966-2979.	9.0	7
28	Multi-objective stochastic economic dispatch with maximal renewable penetration under renewable obligation. Applied Energy, 2020, 270, 115120.	10.1	16
29	Multi-Area Dynamic Economic Dispatch Considering Water Consumption Minimization, Wind Generation, and Energy Storage System. , 2020, , .		6
30	Bi-level optimal bidding strategy of an aggregator in competition with rival aggregators. IET Smart Grid, 2020, 3, 898-905.	2.2	4
31	Risk-constrained offering strategies for a large-scale price-maker electric vehicle demand aggregator. IET Smart Grid, 2020, 3, 860-869.	2.2	7
32	Multi-Objective Energy Management Approach Considering Energy Storages in Distribution Networks with Respect to Voltage Security. , 2019, , .		1
33	From active distribution systems to decentralized microgrids: A review on regulations and planning approaches based on operational factors. Applied Energy, 2019, 253, 113543.	10.1	50
34	Security-level classification based on power system partitioning. IET Generation, Transmission and Distribution, 2019, 13, 703-709.	2.5	5
35	A pattern recognition methodology for analyzing residential customers load data and targeting demand response applications. Energy and Buildings, 2019, 203, 109455.	6.7	34
36	Risk-constrained demand response and wind energy systems integration to handle stochastic nature and wind power outage. IET Energy Systems Integration, 2019, 1, 114-120.	1.8	8

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37	Optimal Control of CHP Plant Integrated with Load Management on HVAC System in Microgrid. , 2019, , .		2
38	Minimization of Residential Energy Costs for PV-SWH and PV-T Systems. IFAC-PapersOnLine, 2019, 52, 940-945.	0.9	2
39	Smart charging management system for electric vehicles in coupled transportation and power distribution systems. Energy, 2019, 189, 116275.	8.8	66
40	A review on economic and technical operation of active distribution systems. Renewable and Sustainable Energy Reviews, 2019, 104, 38-53.	16.4	50
41	A hybrid prediction-based microgrid energy management strategy considering demand-side response and data interruption. International Journal of Electrical Power and Energy Systems, 2019, 113, 139-153.	5.5	35
42	Demand Side Load Management for Big Industrial Energy Users Under Blockchain-Based Peer-to-Peer Electricity Market. IEEE Transactions on Smart Grid, 2019, 10, 6426-6435.	9.0	85
43	Optimal Economic and Emission Dispatch of a Microgrid with a Combined Heat and Power System. Energies, 2019, 12, 604.	3.1	15
44	Coordinated operation of electric vehicle charging and wind power generation as a virtual power plant: A multi-stage risk constrained approach. Applied Energy, 2019, 239, 1294-1307.	10.1	104
45	Proposing a Framework for Resilient Active Distribution Systems using Withstand, Respond, Adapt, and Prevent Element. , 2019, , .		2
46	Integrative Design of an Emergency Resource Predicting-Scheduling-Repairing Method for Rail Track Faults. IEEE Access, 2019, 7, 155686-155700.	4.2	6
47	Minimization of Residential Energy Cost Considering Energy Storage System and EV With Driving Usage Probabilities. IEEE Transactions on Sustainable Energy, 2019, 10, 1752-1763.	8.8	62
48	Programmable Topology Derivation and Analysis of Integrated Three-Port DC-DC Converters with Reduced Switches for Low-Cost Applications. IEEE Transactions on Industrial Electronics, 2019, , 1-1.	7.9	51
49	State-of-Charge Power Estimation of Li-Ion Batteries Considering the Battery Surface Temperature. Energy Technology, 2018, 6, 1352-1360.	3.8	13
50	A new method based on Type-2 fuzzy neural network for accurate wind power forecasting under uncertain data. Renewable Energy, 2018, 120, 220-230.	8.9	94
51	Improved Probabilistic Multi-Stage PMU Placement with an Increased Search Space to Enhance Power System Monitoring. IFAC-PapersOnLine, 2018, 51, 262-267.	0.9	4
52	Energy storage management strategy in distribution networks utilised by photovoltaic resources. IET Generation, Transmission and Distribution, 2018, 12, 5627-5638.	2.5	22
53	Low-carbon economic dispatch for electricity and natural gas systems considering carbon capture systems and power-to-gas. Applied Energy, 2018, 224, 357-370.	10.1	154
54	A Unified Control Strategy for Inductor-Based Active Battery Equalisation Schemes. Energies, 2018, 11, 405.	3.1	16

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55	Determinants of household electricity consumption in South Africa. <i>Energy Economics</i> , 2018, 75, 120-133.	12.1	69
56	Dynamic performance improvement of an ultra-lift Luo DC-DC converter by using a type-2 fuzzy neural controller. <i>Computers and Electrical Engineering</i> , 2018, 69, 171-182.	4.8	14
57	Efficiency Improvement of Nonuniformly Aged PV Arrays. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 1124-1137.	7.9	36
58	A new state-of-charge estimation method for electric vehicle lithium-ion batteries based on multiple input parameter fitting model. <i>International Journal of Energy Research</i> , 2017, 41, 1265-1276.	4.5	30
59	Robust DED based on bad scenario set considering wind, EV and battery switching station. <i>IET Generation, Transmission and Distribution</i> , 2017, 11, 354-362.	2.5	13
60	A Line Flow Granular Computing Approach for Economic Dispatch With Line Constraints. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 4832-4842.	6.5	18
61	Energy cycle and bound of Qi chaotic system. <i>Chaos, Solitons and Fractals</i> , 2017, 99, 7-15.	5.1	43
62	Optimal location and capacity planning for distributed generation with independent power production and self-generation. <i>Applied Energy</i> , 2017, 188, 140-150.	10.1	37
63	A review on clustering of residential electricity customers and its applications. , 2017, , .		16
64	Residential load management in an energy hub with heat pump water heater. <i>Applied Energy</i> , 2017, 208, 551-560.	10.1	59
65	Managing the cumulative distribution function of the profit: A producer risk management case. , 2017, , .		0
66	Static Var Compensator allocation considering transient stability, voltage profile and losses. , 2017, , .		4
67	Aggregation of small loads for demand response programs – Implementation and challenges: A review. , 2017, , .		20
68	A new dynamic SOH estimation of lead-acid battery for substation application. <i>International Journal of Energy Research</i> , 2017, 41, 579-592.	4.5	9
69	Modelling dynamic demand response for plug-in hybrid electric vehicles based on real-time charging pricing. <i>IET Generation, Transmission and Distribution</i> , 2017, 11, 228-235.	2.5	28
70	Hybrid power plant offering strategy to deal with the stochastic nature and outage of wind generators. , 2017, , .		2
71	Single coupled-inductor dual output soft-switching DC-DC converters with improved cross-regulation and reduced components. <i>IET Power Electronics</i> , 2017, 10, 1665-1678.	2.1	17
72	A novel reliability oriented bi-objective unit commitment problem. , 2017, , .		1

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73	Hybrid power plant bidding strategy including a commercial compressed air energy storage aggregator and a wind power producer. , 2017, , .		3
74	New energy management approach in distribution systems considering energy storages. , 2017, , .		8
75	Risk-constrained offering strategies for a price-maker demand response aggregator. , 2017, , .		5
76	Multi-area economic emission dispatch considering load uncertainty. , 2017, , .		0
77	Battery Equalization by Fly-Back Transformers with Inductance, Capacitance and Diode Absorbing Circuits. Energies, 2017, 10, 1482.	3.1	17
78	A Security Level Classification Method for Power Systems under N-1 Contingency. Energies, 2017, 10, 2055.	3.1	9
79	Non-Uniform Aged Modules Reconfiguration for Large-Scale PV Array. IEEE Transactions on Device and Materials Reliability, 2017, 17, 560-569.	2.0	31
80	Coordinated two-stage volt/var management in distribution networks. Electric Power Systems Research, 2016, 141, 157-164.	3.6	17
81	Method to decide a multi-fault rush repair robust strategy in power distribution networks. Engineering Applications of Artificial Intelligence, 2016, 56, 91-101.	8.1	7
82	Modelling the impact of social network on energy savings. Applied Energy, 2016, 178, 56-65.	10.1	22
83	Design of a Modular, High Step-Up Ratio DC-DC Converter for HVDC Applications Integrating Offshore Wind Power. IEEE Transactions on Industrial Electronics, 2016, 63, 2190-2202.	7.9	64
84	Zero-voltage-switching buck converter with low-voltage stress using coupled inductor. IET Power Electronics, 2016, 9, 719-727.	2.1	22
85	Flexible Fault-Tolerant Topology for Switched Reluctance Motor Drives. IEEE Transactions on Power Electronics, 2016, 31, 4654-4668.	7.9	75
86	Medium Density Control for Coal Washing Dense Medium Cyclone Circuits. IEEE Transactions on Control Systems Technology, 2015, 23, 1117-1122.	5.2	14
87	How information propagation in social networks can improve energy savings based on time of use tariff. Sustainable Cities and Society, 2015, 19, 26-33.	10.4	12
88	Online Two-Section PV Array Fault Diagnosis With Optimized Voltage Sensor Locations. IEEE Transactions on Industrial Electronics, 2015, 62, 7237-7246.	7.9	97
89	Operation efficiency optimisation modelling and application of model predictive control. IEEE/CAA Journal of Automatica Sinica, 2015, 2, 166-172.	13.1	19
90	Optimal Scheduling Strategy for a Grid-connected Photovoltaic System for Heat Pump Water Heaters. Energy Procedia, 2014, 61, 1511-1514.	1.8	21

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91	Optimal Energy Control Modelling of a Vertical Shaft Impact Crushing Process. Energy Procedia, 2014, 61, 560-563.	1.8	4
92	Optimal sampling plan for clean development mechanism lighting projects with lamp population decay. Applied Energy, 2014, 136, 1184-1192.	10.1	18
93	Dynamics of Discrete-Time Sliding-Mode-Control Uncertain Systems With a Disturbance Compensator. IEEE Transactions on Industrial Electronics, 2014, 61, 3502-3510.	7.9	162
94	Optimal energy management for a jaw crushing process in deep mines. Energy, 2014, 68, 337-348.	8.8	43
95	A multi-objective optimization model for the life-cycle cost analysis and retrofitting planning of buildings. Energy and Buildings, 2014, 77, 227-235.	6.7	153
96	Dynamical Behaviors of an Euler Discretized Sliding Mode Control Systems. IEEE Transactions on Automatic Control, 2014, 59, 2525-2529.	5.7	19
97	Mathematical modelling for the social impact to energy efficiency savings. Energy and Buildings, 2014, 84, 344-351.	6.7	9
98	Analysing the economic benefit of electricity price forecast in industrial load scheduling. Electric Power Systems Research, 2014, 116, 158-165.	3.6	35
99	Improving energy efficiency of cyclone circuits in coal beneficiation plants by pump-storage systems. Applied Energy, 2014, 119, 306-313.	10.1	33
100	Optimal scheduling of household appliances for demand response. Electric Power Systems Research, 2014, 116, 24-28.	3.6	264
101	Mathematical description for the measurement and verification of energy efficiency improvement. Applied Energy, 2013, 111, 247-256.	10.1	67
102	Energy consumption of air conditioners at different temperature set points. Energy and Buildings, 2013, 65, 412-418.	6.7	65
103	Minimum cost solution of photovoltaic“diesel”battery hybrid power systems for remote consumers. Solar Energy, 2013, 96, 292-299.	6.1	175
104	Optimal meter commitment solutions to CDM energy efficiency lighting projects. , 2013, , .		0
105	Characterising Compact Fluorescent Lamp population decay. , 2013, , .		9
106	Decomposed Model Predictive Control for Economic Dispatch problems. , 2013, , .		1
107	Social influence and energy efficiency savings. , 2013, , .		0
108	Desiccant wheel thermal performance modeling for indoor humidity optimal control. Applied Energy, 2013, 112, 999-1005.	10.1	36

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109	Optimal sampling plan for clean development mechanism energy efficiency lighting projects. Applied Energy, 2013, 112, 1006-1015.	10.1	27
110	A multiple objective optimisation model for building energy efficiency investment decision. Energy and Buildings, 2013, 61, 81-87.	6.7	117
111	Effects of trends and seasonalities on robustness of the Hurst parameter estimators. IET Signal Processing, 2012, 6, 849-856.	1.5	15
112	Residential demand response strategies for South Africa. , 2012, , .		5
113	A new approach to optimal energy management with discrete control. , 2012, , .		0
114	Optimal scheduling of conveyor belt systems under Critical Peak Pricing. , 2012, , .		12
115	A Multiple Objective Decision Model for Energy Efficiency Upgrade Investment in Buildings. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 681-686.	0.4	0
116	Optimal metering plan of measurement and verification for energy efficiency lighting projects. , 2012, , .		2
117	An improved robust model for generator maintenance scheduling. Electric Power Systems Research, 2012, 92, 29-36.	3.6	64
118	Short-term wind power prediction using Least-Square Support Vector Machines. , 2012, , .		5
119	Optimal sizing and operation of pumping systems to achieve energy efficiency and load shifting. Electric Power Systems Research, 2012, 86, 41-50.	3.6	54
120	Energy management of commercial buildings “ A case study from a POET perspective of energy efficiency. Journal of Energy in Southern Africa, 2012, 23, 23-31.	0.8	34
121	Modeling and Control of Heavy-Haul Trains [Applications of Control]. IEEE Control Systems, 2011, 31, 18-31.	0.8	40
122	Optimal Operation of Distribution Network with Distributed Generations to Maximize Social Welfare. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12195-12200.	0.4	1
123	A model predictive control strategy for load shifting in a water pumping scheme with maximum demand charges. Applied Energy, 2011, 88, 4785-4794.	10.1	95
124	An application of model predictive control to the dynamic economic dispatch of power generation. Control Engineering Practice, 2011, 19, 638-648.	5.5	92
125	Optimal hoist scheduling of a deep level mine twin rock winder system for demand side management. Electric Power Systems Research, 2011, 81, 1088-1095.	3.6	30
126	A model predictive control approach to the periodic implementation of the solutions of the optimal dynamic resource allocation problem. Automatica, 2011, 47, 358-362.	5.0	53



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127	Characterizing long memories in electric water heater power consumption time series. , 2011, , .		2
128	Energy consumption of air conditioners at different temperature set points. , 2011, , .		5
129	Maximization of social welfare in distribution network with distributed generations using genetic algorithm. , 2011, , .		1
130	Mathematical description of the performance measurement and verification. , 2011, , .		0
131	An MPC approach to deep level mine rock winder hoist control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 249-254.	0.4	1
132	Energy Efficiency and Control Systemsâ€“from a POET Perspective. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 255-260.	0.4	51
133	Geometric Steady States of Nonlinear Systems. IEEE Transactions on Automatic Control, 2010, 55, 1448-1454.	5.7	3
134	An optimal control model for load shifting â€“ With application in the energy management of a colliery. Applied Energy, 2009, 86, 1266-1273.	10.1	129
135	A model predictive control strategy for load shifting in a water pumping scheme with maximum demand charges. , 2009, , .		7
136	Active power residential non-intrusive appliance load monitoring system. , 2009, , .		25
137	A residential energy and power conservation System Utilizing an Optimization Model. , 2009, , .		1
138	A Model Predictive Control approach to dynamic economic dispatch problem. , 2009, , .		30
139	A chaos-based CDMA scheme with a chaos-based encryption algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 110-115.	0.4	0
140	A near optimal hoist scheduling for deep level mine rock winders. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 209-214.	0.4	1
141	Geometric characterization on the solvability of regulator equations. Automatica, 2008, 44, 445-450.	5.0	2
142	Adaptive Synchronization for Generalized Lorenz Systems. IEEE Transactions on Automatic Control, 2008, 53, 1740-1746.	5.7	37
143	On the application of parameter identifiability to the security of chaotic synchronization. , 2008, , .		2
144	Improving the Security of Chaotic Synchronization With a $\Delta$ -Modulated Cryptographic Technique. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 680-684.	3.0	12

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145	Correction to "Adaptive Synchronization for Generalized Lorenz Systems"; IEEE Transactions on Automatic Control, 2008, 53, 2216-2216.	5.7	0
146	Simultaneous upper triangularization and the stability of linear discrete multidimensional systems. , 2008, , .		1
147	Steady States of Nonlinear Systems. , 2007, , .		0
148	Adaptive synchronization for a class of chaotic system. , 2007, , .		0
149	Best switching time of hot water cylinder-switched optimal control approach. , 2007, , .		7
150	GENERALIZED NONLINEAR MANEUVER REGULATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 510-514.	0.4	0
151	Parameter Identifiability of Nonlinear Systems With Time-Delay. IEEE Transactions on Automatic Control, 2006, 51, 371-375.	5.7	32
152	On an open problem in bistable stabilization. Systems and Control Letters, 2005, 54, 399-403.	2.3	0
153	Some Applications of a Polynomial Inequality to Global Optimization. Journal of Optimization Theory and Applications, 2005, 127, 193-205.	1.5	5
154	$\hat{\mathfrak{A}}_{\mathfrak{g}}$ -Graded Lie Algebras Generated by the Virasoro Algebra and $\mathfrak{sl}_2$ . Mathematische Nachrichten, 2002, 246-247, 188-201.	0.8	0
155	On the representation of derivative algebras in characteristic $p > 0$ . Illinois Journal of Mathematics, 2002, 46, .	0.1	0