

# Wei Feng

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

4,362  
citations

87888

38  
h-index

114465

63  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven model predictive control for power demand management and fast demand response of commercial buildings using support vector regression. <i>Building Simulation</i> , 2022, 15, 317-331.	5.6	29
2	The energy performance and passive survivability of high thermal insulation buildings in future climate scenarios. <i>Building Simulation</i> , 2022, 15, 1209-1225.	5.6	23
3	Carbon reduction in commercial building operations: A provincial retrospection in China. <i>Applied Energy</i> , 2022, 306, 118098.	10.1	115
4	Historical carbon abatement in the commercial building operation: China versus the US. <i>Energy Economics</i> , 2022, 105, 105712.	12.1	70
5	Energy and power quality measurement for electrical distribution in AC and DC microgrid buildings. <i>Applied Energy</i> , 2022, 308, 118308.	10.1	17
6	Towards low-carbon cities through building-stock-level carbon emission analysis: a calculating and mapping method. <i>Sustainable Cities and Society</i> , 2022, 78, 103633.	10.4	49
7	A global comparison of building decarbonization scenarios by 2050 towards 1.5°C targets. <i>Nature Communications</i> , 2022, 13, .	12.8	48
8	Carbon emissions in China's urban residential building sector through 2060: A dynamic scenario simulation. <i>Energy</i> , 2022, 254, 124395.	8.8	64
9	Historical decarbonization of global commercial building operations in the 21st century. <i>Applied Energy</i> , 2022, 322, 119401.	10.1	103
10	Potential to decarbonize the commercial building operation of the top two emitters by 2060. <i>Resources, Conservation and Recycling</i> , 2022, 185, 106481.	10.8	71
11	Tradeoff between heating energy demand in winter and indoor overheating risk in summer constrained by building standards. <i>Building Simulation</i> , 2021, 14, 987-1003.	5.6	19
12	Influence of classified coal consumption on PM2.5 pollution: Analysis based on the panel cointegration and error-correction model. <i>Energy</i> , 2021, 215, 119108.	8.8	22
13	A comprehensive evaluation of zero energy buildings in cold regions: Actual performance and key technologies of cases from China, the US, and the European Union. <i>Energy</i> , 2021, 215, 118992.	8.8	48
14	A Comprehensive Loss Model and Comparison of AC and DC Boost Converters. <i>Energies</i> , 2021, 14, 3131.	3.1	3
15	Model predictive control optimization for rapid response and energy efficiency based on the state-space model of a radiant floor heating system. <i>Energy and Buildings</i> , 2021, 238, 110832.	6.7	36
16	Electrical Measurement and Verification of Energy in DC Buildings. , 2021, , .		1
17	Analysis of green building performance in cold coastal climates: An in-depth evaluation of green buildings in Dalian, China. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 146, 111149.	16.4	28
18	Quantitative impact analysis of driving factors on annual residential building energy end-use combining machine learning and stochastic methods. <i>Applied Energy</i> , 2021, 299, 117303.	10.1	18

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19	Dynamic scenario simulations of carbon emission peak in China's city-scale urban residential building sector through 2050. <i>Energy Policy</i> , 2021, 159, 112612.	8.8	97
20	Simulation and power quality analysis of a Loose-Coupled bipolar DC microgrid in an office building. <i>Applied Energy</i> , 2021, 303, 117606.	10.1	18
21	Policy recommendations for the zero energy building promotion towards carbon neutral in Asia-Pacific Region. <i>Energy Policy</i> , 2021, 159, 112661.	8.8	49
22	Research on the performance of radiative cooling and solar heating coupling module to direct control indoor temperature. <i>Energy Conversion and Management</i> , 2020, 205, 112395.	9.2	51
23	Comparative study of city-level sustainability assessment standards in China and the United States. <i>Journal of Cleaner Production</i> , 2020, 251, 119622.	9.3	18
24	A three-stage optimization methodology for envelope design of passive house considering energy demand, thermal comfort and cost. <i>Energy</i> , 2020, 192, 116723.	8.8	60
25	A robust offering strategy for wind producers considering uncertainties of demand response and wind power. <i>Applied Energy</i> , 2020, 279, 115742.	10.1	33
26	Optimization of a distributed energy system with multiple waste heat sources and heat storage of different temperatures based on the energy quality. <i>Applied Thermal Engineering</i> , 2020, 181, 115975.	6.0	16
27	Scenarios of energy reduction potential of zero energy building promotion in the Asia-Pacific region to year 2050. <i>Energy</i> , 2020, 213, 118792.	8.8	38
28	Sustainable framework for buildings in cold regions of China considering life cycle cost and environmental impact as well as thermal comfort. <i>Energy Reports</i> , 2020, 6, 3036-3050.	5.1	17
29	A novel numerical model for investigating macro factors influencing building energy consumption intensity. <i>Sustainable Production and Consumption</i> , 2020, 24, 308-323.	11.0	19
30	Impact of adjustment strategies on building design process in different climates oriented by multiple performance. <i>Applied Energy</i> , 2020, 266, 114822.	10.1	22
31	Experimental study on transcritical Rankine cycle (TRC) using CO <sub>2</sub> /R134a mixtures with various composition ratios for waste heat recovery from diesel engines. <i>Energy Conversion and Management</i> , 2020, 208, 112574.	9.2	18
32	Fighting coal "â€" Effectiveness of coal-replacement programs for residential heating in China: Empirical findings from a household survey. <i>Energy for Sustainable Development</i> , 2020, 55, 170-180.	4.5	37
33	A novel improved model for building energy consumption prediction based on model integration. <i>Applied Energy</i> , 2020, 262, 114561.	10.1	126
34	Analysis of the embodied carbon dioxide in the building sector: A case of China. <i>Journal of Cleaner Production</i> , 2020, 269, 122438.	9.3	73
35	Assessing the effects of technological progress on energy efficiency in the construction industry: A case of China. <i>Journal of Cleaner Production</i> , 2019, 238, 117908.	9.3	64
36	A review of net zero energy buildings in hot and humid climates: Experience learned from 34 case study buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109303.	16.4	174

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37	Resilient Configuration Approach of Integrated Community Energy System Considering Integrated Demand Response Under Uncertainty. IEEE Access, 2019, 7, 87513-87533.	4.2	50
38	Preliminary experimental comparison and feasibility analysis of CO <sub>2</sub> /R134a mixture in Organic Rankine Cycle for waste heat recovery from diesel engines. Energy Conversion and Management, 2019, 198, 111776.	9.2	18
39	Urban-scale building energy consumption database: a case study for Wuhan, China. Energy Procedia, 2019, 158, 6551-6556.	1.8	8
40	BISCUIT: Building Intelligent System Customer Investment Tools. Energy Procedia, 2019, 158, 6152-6157.	1.8	6
41	Cooling load forecasting-based predictive optimisation for chiller plants. Energy and Buildings, 2019, 198, 261-274.	6.7	39
42	Do residential building energy efficiency standards reduce energy consumption in China? – A data-driven method to validate the actual performance of building energy efficiency standards. Energy Policy, 2019, 131, 82-98.	8.8	56
43	Provision of secondary frequency regulation by coordinated dispatch of industrial loads and thermal power plants. Applied Energy, 2019, 241, 302-312.	10.1	19
44	Energy and CO <sub>2</sub> implications of decarbonization strategies for China beyond efficiency: Modeling 2050 maximum renewable resources and accelerated electrification impacts. Applied Energy, 2019, 242, 12-26.	10.1	56
45	A roadmap for China to peak carbon dioxide emissions and achieve a 20% share of non-fossil fuels in primary energy by 2030. Applied Energy, 2019, 239, 793-819.	10.1	197
46	Moore vs. Murphy: Tradeoffs between complexity and reliability in distributed energy system scheduling using software-as-a-service. Applied Energy, 2019, 238, 1126-1137.	10.1	7
47	Advances and challenges in commercializing radiative cooling. Materials Today Physics, 2019, 11, 100161.	6.0	68
48	China's building stock estimation and energy intensity analysis. Journal of Cleaner Production, 2019, 207, 801-813.	9.3	80
49	Robust optimization for energy transactions in multi-microgrids under uncertainty. Applied Energy, 2018, 217, 346-360.	10.1	165
50	China's energy consumption in the building sector: A Statistical Yearbook-Energy Balance Sheet based splitting method. Journal of Cleaner Production, 2018, 185, 665-679.	9.3	209
51	The total-factor energy productivity growth of China's construction industry: evidence from the regional level. Natural Hazards, 2018, 92, 1593-1616.	3.4	26
52	A simulation-based efficiency comparison of AC and DC power distribution networks in commercial buildings. Applied Energy, 2018, 210, 1167-1187.	10.1	126
53	Microgrid to enable optimal distributed energy retail and end-user demand response. Applied Energy, 2018, 210, 1321-1335.	10.1	152
54	Heating energy saving potential from building envelope design and operation optimization in residential buildings: A case study in northern China. Journal of Cleaner Production, 2018, 174, 413-423.	9.3	89

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55	Review of Microgrid Development in the United States and China and Lessons Learned for China. <i>Energy Procedia</i> , 2018, 145, 217-222.	1.8	15
56	Scenarios of energy efficiency and CO2 emissions reduction potential in the buildings sector in China to year 2050. <i>Nature Energy</i> , 2018, 3, 978-984.	39.5	263
57	Cascade energy optimization for waste heat recovery in distributed energy systems. <i>Applied Energy</i> , 2018, 230, 679-695.	10.1	60
58	Experimental and theoretical research on the electrical conductivity of a liquid desiccant for the liquid desiccant air-conditioning system: LiCl aqueous solution. <i>International Journal of Refrigeration</i> , 2018, 91, 189-198.	3.4	13
59	Optimization of Dimples in Microchannel Heat Sink with Impinging Jets—Part B: the Influences of Dimple Height and Arrangement. <i>Journal of Thermal Science</i> , 2018, 27, 321-330.	1.9	26
60	A review of microgrid development in the United States – A decade of progress on policies, demonstrations, controls, and software tools. <i>Applied Energy</i> , 2018, 228, 1656-1668.	10.1	111
61	Effect factors of part-load performance for various Organic Rankine cycles using in engine waste heat recovery. <i>Energy Conversion and Management</i> , 2018, 174, 504-515.	9.2	30
62	MOD-DR: Microgrid optimal dispatch with demand response. <i>Applied Energy</i> , 2017, 187, 758-776.	10.1	126
63	A simulation based comparison of AC and DC power distribution networks in buildings. , 2017, , .		18
64	An Evaluation Index for Cross Ventilation Based on CFD Simulations and Ventilation Prediction Model Using Machine Learning algorithms. <i>Procedia Engineering</i> , 2017, 205, 2948-2955.	1.2	12
65	Building stock dynamics and its impacts on materials and energy demand in China. <i>Energy Policy</i> , 2016, 94, 47-55.	8.8	87
66	Energy efficiency outlook in China’s urban buildings sector through 2030. <i>Energy Policy</i> , 2016, 97, 532-539.	8.8	96
67	Governance strategies to achieve zero-energy buildings in China. <i>Building Research and Information</i> , 2016, 44, 604-618.	3.9	23
68	Comparative study of commercial building energy-efficiency retrofit policies in four pilot cities in China. <i>Energy Policy</i> , 2016, 88, 204-215.	8.8	78
69	Influence of occupancy-oriented interior cooling load on building cooling load design. <i>Applied Thermal Engineering</i> , 2016, 96, 411-420.	6.0	15
70	Measures to enforce mandatory civil building energy efficiency codes in China. <i>Journal of Cleaner Production</i> , 2016, 119, 152-166.	9.3	40
71	Energy Savings and Cost-benefit Analysis of the New Commercial Building Standard in China. <i>Procedia Engineering</i> , 2015, 121, 317-324.	1.2	7
72	Research on the Efficiency and Economic Impact of Energy-Saving Transformation of Residential Buildings in Different Climatic Regions of China. <i>Advances in Materials Science and Engineering</i> , 2015, 1-9.	1.8	5

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73	Comparison of building energy use data between the United States and China. Energy and Buildings, 2014, 78, 165-175.	6.7	46
74	Optimal deployment of thermal energy storage under diverse economic and climate conditions. Applied Energy, 2014, 119, 488-496.	10.1	50
75	Analysis and case studies of residential heat metering and energy-efficiency retrofits in China's northern heating region. Renewable and Sustainable Energy Reviews, 2014, 38, 765-774.	16.4	16
76	Regional analysis of building distributed energy costs and CO2 abatement: A U.S.-China comparison. Energy and Buildings, 2014, 77, 112-129.	6.7	8
77	Data and analytics to inform energy retrofit of high performance buildings. Applied Energy, 2014, 126, 90-106.	10.1	92
78	"Virtual Design Studio" Part 1: Interdisciplinary design processes. Building Simulation, 2013, 6, 235-251.	5.6	18
79	"Virtual Design Studio" Part 2: Introduction to overall and software framework. Building Simulation, 2013, 6, 253-268.	5.6	13
80	Sustainable Building in China - A Green Leap Forward?. Buildings, 2013, 3, 639-658.	3.1	22