

Wei Feng

List of Publications by Year in descending order

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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	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
2	China's energy consumption in the building sector: A Statistical Yearbook-Energy Balance Sheet based splitting method. <i>Journal of Cleaner Production</i> , 2018, 185, 665-679.	9.3	209
3	A roadmap for China to peak carbon dioxide emissions and achieve a 20% share of non-fossil fuels in primary energy by 2030. <i>Applied Energy</i> , 2019, 239, 793-819.	10.1	197
4	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
5	Robust optimization for energy transactions in multi-microgrids under uncertainty. <i>Applied Energy</i> , 2018, 217, 346-360.	10.1	165
6	Microgrid to enable optimal distributed energy retail and end-user demand response. <i>Applied Energy</i> , 2018, 210, 1321-1335.	10.1	152
7	MOD-DR: Microgrid optimal dispatch with demand response. <i>Applied Energy</i> , 2017, 187, 758-776.	10.1	126
8	A simulation-based efficiency comparison of AC and DC power distribution networks in commercial buildings. <i>Applied Energy</i> , 2018, 210, 1167-1187.	10.1	126
9	A novel improved model for building energy consumption prediction based on model integration. <i>Applied Energy</i> , 2020, 262, 114561.	10.1	126
10	Carbon reduction in commercial building operations: A provincial retrospection in China. <i>Applied Energy</i> , 2022, 306, 118098.	10.1	115
11	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
12	Historical decarbonization of global commercial building operations in the 21st century. <i>Applied Energy</i> , 2022, 322, 119401.	10.1	103
13	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
14	Energy efficiency outlook in China's urban buildings sector through 2030. <i>Energy Policy</i> , 2016, 97, 532-539.	8.8	96
15	Data and analytics to inform energy retrofit of high performance buildings. <i>Applied Energy</i> , 2014, 126, 90-106.	10.1	92
16	Heating energy saving potential from building envelope design and operation optimization in residential buildings: A case study in northern China. <i>Journal of Cleaner Production</i> , 2018, 174, 413-423.	9.3	89
17	Building stock dynamics and its impacts on materials and energy demand in China. <i>Energy Policy</i> , 2016, 94, 47-55.	8.8	87
18	China's building stock estimation and energy intensity analysis. <i>Journal of Cleaner Production</i> , 2019, 207, 801-813.	9.3	80

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Historical carbon abatement in the commercial building operation: China versus the US. <i>Energy Economics</i> , 2022, 105, 105712.	12.1	70
23	Advances and challenges in commercializing radiative cooling. <i>Materials Today Physics</i> , 2019, 11, 100161.	6.0	68
24	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
25	Carbon emissions in China's urban residential building sector through 2060: A dynamic scenario simulation. <i>Energy</i> , 2022, 254, 124395.	8.8	64
26	Cascade energy optimization for waste heat recovery in distributed energy systems. <i>Applied Energy</i> , 2018, 230, 679-695.	10.1	60
27	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
28	Do residential building energy efficiency standards reduce energy consumption in China? â€“ A data-driven method to validate the actual performance of building energy efficiency standards. <i>Energy Policy</i> , 2019, 131, 82-98.	8.8	56
29	Energy and CO2 implications of decarbonization strategies for China beyond efficiency: Modeling 2050 maximum renewable resources and accelerated electrification impacts. <i>Applied Energy</i> , 2019, 242, 12-26.	10.1	56
30	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
31	Optimal deployment of thermal energy storage under diverse economic and climate conditions. <i>Applied Energy</i> , 2014, 119, 488-496.	10.1	50
32	Resilient Configuration Approach of Integrated Community Energy System Considering Integrated Demand Response Under Uncertainty. <i>IEEE Access</i> , 2019, 7, 87513-87533.	4.2	50
33	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
34	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
35	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
36	A global comparison of building decarbonization scenarios by 2050 towards 1.5â€“2â€“%âˆ°C targets. <i>Nature Communications</i> , 2022, 13, .	12.8	48

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37	Comparison of building energy use data between the United States and China. <i>Energy and Buildings</i> , 2014, 78, 165-175.	6.7	46
38	Measures to enforce mandatory civil building energy efficiency codes in China. <i>Journal of Cleaner Production</i> , 2016, 119, 152-166.	9.3	40
39	Cooling load forecasting-based predictive optimisation for chiller plants. <i>Energy and Buildings</i> , 2019, 198, 261-274.	6.7	39
40	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
41	Fighting coal " 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
42	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
43	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
44	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
45	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
46	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
47	The total-factor energy productivity growth of China's construction industry: evidence from the regional level. <i>Natural Hazards</i> , 2018, 92, 1593-1616.	3.4	26
48	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
49	Governance strategies to achieve zero-energy buildings in China. <i>Building Research and Information</i> , 2016, 44, 604-618.	3.9	23
50	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
51	Sustainable Building in China" A Green Leap Forward?. <i>Buildings</i> , 2013, 3, 639-658.	3.1	22
52	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
53	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
54	Provision of secondary frequency regulation by coordinated dispatch of industrial loads and thermal power plants. <i>Applied Energy</i> , 2019, 241, 302-312.	10.1	19

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55	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
56	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
57	“Virtual Design Studio” Part 1: Interdisciplinary design processes. <i>Building Simulation</i> , 2013, 6, 235-251.	5.6	18
58	A simulation based comparison of AC and DC power distribution networks in buildings. , 2017, , .		18
59	Preliminary experimental comparison and feasibility analysis of CO ₂ /R134a mixture in Organic Rankine Cycle for waste heat recovery from diesel engines. <i>Energy Conversion and Management</i> , 2019, 198, 111776.	9.2	18
60	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
61	Experimental study on transcritical Rankine cycle (TRC) using CO ₂ /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
62	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
63	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
64	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
65	Energy and power quality measurement for electrical distribution in AC and DC microgrid buildings. <i>Applied Energy</i> , 2022, 308, 118308.	10.1	17
66	Analysis and case studies of residential heat metering and energy-efficiency retrofits in China’s northern heating region. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 765-774.	16.4	16
67	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
68	Influence of occupancy-oriented interior cooling load on building cooling load design. <i>Applied Thermal Engineering</i> , 2016, 96, 411-420.	6.0	15
69	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
70	“Virtual Design Studio” Part 2: Introduction to overall and software framework. <i>Building Simulation</i> , 2013, 6, 253-268.	5.6	13
71	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
72	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

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73	Regional analysis of building distributed energy costs and CO2 abatement: A U.S.â€“China comparison. Energy and Buildings, 2014, 77, 112-129.	6.7	8
74	Urban-scale building energy consumption database: a case study for Wuhan, China. Energy Procedia, 2019, 158, 6551-6556.	1.8	8
75	Energy Savings and Cost-benefit Analysis of the New Commercial Building Standard in China. Procedia Engineering, 2015, 121, 317-324.	1.2	7
76	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
77	BISCUIT: Building Intelligent System Customer Investment Tools. Energy Procedia, 2019, 158, 6152-6157.	1.8	6
78	Research on the Efficiency and Economic Impact of Energy-Saving Transformation of Residential Buildings in Different Climatic Regions of China. Advances in Materials Science and Engineering, 2015, 1-9.	1.8	5
79	A Comprehensive Loss Model and Comparison of AC and DC Boost Converters. Energies, 2021, 14, 3131.	3.1	3
80	Electrical Measurement and Verification of Energy in DC Buildings. , 2021, , .		1