

Xing Shi

List of Publications by Year in descending order

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55
papers

1,526
citations

304743

22
h-index

315739

38
g-index

55
all docs

55
docs citations

55
times ranked

1285
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on building energy efficient design optimization from the perspective of architects. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 872-884.	16.4	177
2	Towards adoption of building energy simulation and optimization for passive building design: A survey and a review. <i>Energy and Buildings</i> , 2018, 158, 1306-1316.	6.7	163
3	Performance-driven architectural design and optimization technique from a perspective of architects. <i>Automation in Construction</i> , 2013, 32, 125-135.	9.8	115
4	Multi-objective optimization design of a complex building based on an artificial neural network and performance evaluation of algorithms. <i>Advanced Engineering Informatics</i> , 2019, 40, 93-109.	8.0	91
5	Design optimization of insulation usage and space conditioning load using energy simulation and genetic algorithm. <i>Energy</i> , 2011, 36, 1659-1667.	8.8	68
6	A performance data integrated BIM framework for building life-cycle energy efficiency and environmental optimization design. <i>Automation in Construction</i> , 2021, 127, 103712.	9.8	59
7	Performance indices and evaluation of algorithms in building energy efficient design optimization. <i>Energy</i> , 2016, 114, 100-112.	8.8	57
8	Assessment of pedestrian wind environment in urban planning design. <i>Landscape and Urban Planning</i> , 2015, 140, 17-28.	7.5	44
9	Data acquisition for urban building energy modeling: A review. <i>Building and Environment</i> , 2022, 217, 109056.	6.9	43
10	Optimal location of PCM layer in building walls under Nanjing (China) weather conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 1767-1778.	3.6	41
11	Energy asymmetry in melting and solidifying processes of PCM. <i>Energy Conversion and Management</i> , 2015, 106, 608-614.	9.2	40
12	Performance-based and performance-driven architectural design and optimization. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2010, 4, 512-518.	0.4	37
13	Case study of window operating behavior patterns in an open-plan office in the summer. <i>Energy and Buildings</i> , 2018, 165, 15-24.	6.7	36
14	Comparison of two numerical heat transfer models for phase change material board. <i>Applied Thermal Engineering</i> , 2018, 128, 1331-1339.	6.0	34
15	Magnitude, Causes, and Solutions of the Performance Gap of Buildings: A Review. <i>Sustainability</i> , 2019, 11, 937.	3.2	33
16	A review of multi-scale modelling, assessment, and improvement methods of the urban thermal and wind environment. <i>Building and Environment</i> , 2022, 213, 108860.	6.9	33
17	An application of Bayesian Network approach for selecting energy efficient HVAC systems. <i>Journal of Building Engineering</i> , 2019, 25, 100796.	3.4	32
18	An action-based Markov chain modeling approach for predicting the window operating behavior in office spaces. <i>Building Simulation</i> , 2021, 14, 301-315.	5.6	31

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19	Comparative study of air-conditioning energy use of four office buildings in China and USA. <i>Energy and Buildings</i> , 2018, 169, 344-352.	6.7	29
20	Ineffectiveness of optimization algorithms in building energy optimization and possible causes. <i>Renewable Energy</i> , 2019, 134, 1295-1306.	8.9	28
21	A systematic method to develop three dimensional geometry models of buildings for urban building energy modeling. <i>Sustainable Cities and Society</i> , 2021, 71, 102998.	10.4	28
22	Performance Assessment of Algorithms for Building Energy Optimization Problems with Different Properties. <i>Sustainability</i> , 2019, 11, 18.	3.2	24
23	A new heat transfer model of phase change material based on energy asymmetry. <i>Applied Energy</i> , 2018, 212, 1409-1416.	10.1	23
24	Control of exhaled SARS-CoV-2-laden aerosols in the interpersonal breathing microenvironment in a ventilated room with limited space air stability. <i>Journal of Environmental Sciences</i> , 2021, 108, 175-187.	6.1	22
25	Uncertainty Sources and Calculation Approaches for Building Energy Simulation Models. <i>Energy Procedia</i> , 2015, 78, 2566-2571.	1.8	18
26	Dynamic occupant density models of commercial buildings for urban energy simulation. <i>Building and Environment</i> , 2020, 169, 106549.	6.9	18
27	Thermal upgrading of Hui-style vernacular dwellings in China using foam concrete. <i>Frontiers of Architectural Research</i> , 2012, 1, 23-33.	2.8	16
28	Mechanics and test study of flexible membranes ballooning in three dimensions. <i>Building and Environment</i> , 2008, 43, 1871-1881.	6.9	14
29	A 3D spatiotemporal morphological database for urban green infrastructure and its applications. <i>Urban Forestry and Urban Greening</i> , 2021, 58, 126935.	5.3	14
30	Influence of asynchronous demand behavior on overcooling in multiple zone AC systems. <i>Building and Environment</i> , 2016, 110, 65-75.	6.9	13
31	Comparative research on different air conditioning systems for residential buildings. <i>Frontiers of Architectural Research</i> , 2017, 6, 42-52.	2.8	12
32	A review of data-driven building performance analysis and design on big on-site building performance data. <i>Journal of Building Engineering</i> , 2021, 41, 102706.	3.4	12
33	Exploring data-driven building energy-efficient design of envelopes based on their quantified impacts. <i>Journal of Building Engineering</i> , 2021, 42, 103018.	3.4	12
34	Mechanics and Test Study of Two-Dimensional Flexible Membranes. <i>Journal of Architectural Engineering</i> , 2006, 12, 93-99.	1.6	10
35	Methodology for developing economically efficient strategies for net zero energy buildings: A case study of a prototype building in the Yangtze River Delta, China. <i>Journal of Cleaner Production</i> , 2021, 320, 128849.	9.3	10
36	An improved heat transfer model for building phase change material wallboard. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1757-1763.	3.6	9

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37	Multi-objective optimization model predictive dispatch precooling and ceiling fans in office buildings under different summer weather conditions. <i>Building Simulation</i> , 2019, 12, 999-1012.	5.6	9
38	Comparative analysis of window operating behavior in three different open-plan offices in Nanjing. <i>Energy and Built Environment</i> , 2021, 2, 175-187.	5.9	9
39	A transient heat and moisture transfer model for building materials based on phase change criterion under isothermal and non-isothermal conditions. <i>Energy</i> , 2021, 224, 120112.	8.8	9
40	Developing data-driven models for energy-efficient heating design in office buildings. <i>Journal of Building Engineering</i> , 2020, 32, 101778.	3.4	8
41	A Comparison of Various Bottom-Up Urban Energy Simulation Methods Using a Case Study in Hangzhou, China. <i>Energies</i> , 2020, 13, 4781.	3.1	8
42	Study on non-isothermal moisture transfer characteristics of hygroscopic building materials: From parameter characterization to model analysis. <i>Energy</i> , 2020, 212, 118788.	8.8	7
43	PORE STRUCTURE RECONSTRUCTION AND MOISTURE MIGRATION IN POROUS MEDIA. <i>Fractals</i> , 2014, 22, 1440007.	3.7	6
44	Transformation of Urban Surfaces and Heat Islands in Nanjing during 1984â€“2018. <i>Sustainability</i> , 2020, 12, 6521.	3.2	6
45	Generative design method of the facade of traditional architecture and settlement based on knowledge discovery and digital generation: a case study of Gunanjie Street in China. <i>International Journal of Architectural Heritage</i> , 2019, 13, 679-690.	3.1	5
46	Potential Use of Foamed Mortar (FM) for Thermal Upgrading of Chinese Traditional Hui-Style Residences. <i>International Journal of Architectural Heritage</i> , 2015, 9, 775-793.	3.1	3
47	A Cross-Scale Analysis of the Correlation between Daytime Air Temperature and Heterogeneous Urban Spaces. <i>Sustainability</i> , 2020, 12, 7663.	3.2	3
48	Uncertainty Analysis for Vapor Pressure Measurement. <i>Journal of Building Physics</i> , 2007, 30, 317-336.	2.4	2
49	Hourly occupant density prediction in commercial buildings for urban energy simulation. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 238, 012039.	0.3	2
50	Effect of membrane ballooning on screen pressure equalization: A short literature review. <i>Journal of Building Physics</i> , 2013, 37, 185-199.	2.4	1
51	The Centre of City: Thermal Environment and Spatial Morphology. , 2020, , .		1
52	Uncertainty Analysis in Hygrothermal Measurements and Its Effect on Experimental Conclusions. , 0, , 194-194-16.		1
53	Implementation of energy conservation in a commercial building using BEM and sub-metering technology. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 238, 012003.	0.3	0
54	Moisture transfer characteristics of the wall with phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 0, , 1.	3.6	0

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55	Uncertainty Analysis in Hygrothermal Measurements and Its Effect on Experimental Conclusions. Journal of ASTM International, 2009, 6, 1-12.	0.2	0