

# Jian Yao

## List of Publications by Year in descending order

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47  
papers

672  
citations

687220

13  
h-index

580701

25  
g-index

49  
all docs

49  
docs citations

49  
times ranked

508  
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation into the impact of movable solar shades on energy, indoor thermal and visual comfort improvements. <i>Building and Environment</i> , 2014, 71, 24-32.	3.0	101
2	Determining the energy performance of manually controlled solar shades: A stochastic model based co-simulation analysis. <i>Applied Energy</i> , 2014, 127, 64-80.	5.1	75
3	Modelling and simulating occupant behaviour on air conditioning in residential buildings. <i>Energy and Buildings</i> , 2018, 175, 1-10.	3.1	72
4	Evaluation of indoor thermal environmental, energy and daylighting performance of thermotropic windows. <i>Building and Environment</i> , 2012, 49, 283-290.	3.0	52
5	Energy optimization of building design for different housing units in apartment buildings. <i>Applied Energy</i> , 2012, 94, 330-337.	5.1	44
6	Thermal and energy performance of a steel-bamboo composite wall structure. <i>Energy and Buildings</i> , 2017, 156, 225-237.	3.1	41
7	Review on occupancy detection and prediction in building simulation. <i>Building Simulation</i> , 2022, 15, 333-356.	3.0	39
8	Enhanced supervision strategies for effective reduction of building energy consumption—A case study of Ningbo. <i>Energy and Buildings</i> , 2011, 43, 2197-2202.	3.1	34
9	Occupants'™ impact on indoor thermal comfort: a co-simulation study on stochastic control of solar shades. <i>Journal of Building Performance Simulation</i> , 2016, 9, 272-287.	1.0	32
10	The effectiveness of adding horizontal greening and vertical greening to courtyard areas of existing buildings in the hot summer cold winter region of China: A case study for Ningbo. <i>Energy and Buildings</i> , 2019, 196, 227-239.	3.1	31
11	A Multi-Objective (Energy, Economic and Environmental Performance) Life Cycle Analysis for Better Building Design. <i>Sustainability</i> , 2014, 6, 602-614.	1.6	20
12	Forecast of Energy Consumption and Carbon Emissions in China's™ Building Sector to 2060. <i>Energies</i> , 2022, 15, 4950.	1.6	17
13	Impact of Manually Controlled Solar Shades on Indoor Visual Comfort. <i>Sustainability</i> , 2016, 8, 727.	1.6	13
14	Uncertainty prediction of energy consumption in buildings under stochastic shading adjustment. <i>Energy</i> , 2022, 254, 124145.	4.5	13
15	Coupling effect of building design variables on building energy performance. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101323.	2.8	10
16	Effects of different shading devices on building energy saving in hot summer and cold winter zone. , 2010, , .		7
17	Effect of variable ventilation modes on indoor thermal comfort and building energy consumption. <i>International Journal of Low-Carbon Technologies</i> , 2012, 7, 187-191.	1.2	7
18	DEVELOPMENT AND ANALYSIS OF A NOVEL KIND OF SMART THERMOTROPIC MATERIAL. <i>Functional Materials Letters</i> , 2010, 03, 135-139.	0.7	6

#	ARTICLE	IF	CITATIONS
19	The Optimum Energy Saving Measures for Retrofitting Residential Buildings. Open House International, 2016, 41, 88-92.	0.6	6
20	Building cooling energy uncertainty and life cycle economic performance: A stochastic air conditioning behavior model based comparative analysis. Journal of Cleaner Production, 2020, 266, 121910.	4.6	5
21	IDENTIFYING OCCUPANTS' APPROPRIATE SEATING POSITION AND VIEW DIRECTION IN OFFICE BUILDINGS: A STOCHASTIC SHADE CONTROL BASED MULTIOBJECTIVE VISUAL COMFORT OPTIMIZATION. Journal of Green Building, 2020, 15, 15-36.	0.4	5
22	Energy uncertainty of manual solar shades for different window-to-wall ratios. Journal of Asian Architecture and Building Engineering, 2019, 18, 575-585.	1.2	4
23	Uncertainty of Energy and Economic Performance of Manual Solar Shades in Hot Summer and Cold Winter Regions of China. Sustainability, 2019, 11, 5711.	1.6	4
24	The uncertainty of manual shade control on west-facing facades and its influence on energy performance. Applied Thermal Engineering, 2020, 165, 114611.	3.0	4
25	Minimum number of simulation runs for reliable building energy and peak load prediction at different building scales: a study on stochastic shade adjustment. Journal of Asian Architecture and Building Engineering, 2020, 19, 527-540.	1.2	4
26	Stochastic Characteristics of Manual Solar Shades and their Influence on Building Energy Performance. Sustainability, 2017, 9, 1070.	1.6	3
27	Uncertainty of building energy performance at spatio-temporal scales: A comparison of aggregated and disaggregated behavior models of solar shade control. Energy, 2020, 195, 117079.	4.5	3
28	Daylighting Performance of Manual Solar Shades. Light & Engineering, 2018, , 99-104.	0.1	3
29	EFFECT OF A NOVEL INTERNAL ROLLER SHADING SYSTEM ON ENERGY PERFORMANCE. Journal of Green Building, 2014, 9, 125-145.	0.4	3
30	Prediction of Hourly Air-Conditioning Energy Consumption in Office Buildings Based on Gaussian Process Regression. Energies, 2022, 15, 4626.	1.6	3
31	Analysis of influencing factors of building energy efficiency based on DEMATEL method. , 2010, , .		2
32	A Comparison of Smart Shading Control Strategies for Better Building Energy Performance. International Journal of Smart Home, 2016, 10, 107-116.	0.6	2
33	Research on evaluation indicator system for construction of demonstrative building based on Analytic Hierarchy Process theory. , 2010, , .		1
34	Effect of same Insulation Materials on Energy-Saving Potential of Different Buildings. Applied Mechanics and Materials, 2012, 164, 93-96.	0.2	1
35	Solar Shading Performance of Different Louver Shading Materials in Hot Summer and Cold Winter Zone. Applied Mechanics and Materials, 0, 164, 77-80.	0.2	1
36	A New Design Optimization Method For Energy and Indoor Thermal Performance of Apartment Buildings. Energy Engineering: Journal of the Association of Energy Engineers, 2018, 115, 23-37.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Energy related performance of manual shading devices in private offices: An occupant behavior-based comparative study using modeling approaches. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101336.	2.8	1
38	A Comparative Study of the Building Energy Performance of Thermotropic Windows. <i>Open House International</i> , 2017, 42, 16-22.	0.6	1
39	Switching temperature, spectral and radiation transmittance of a novel kind of thermotropic material. , 2010, , .		0
40	Application of simulation software in the teaching of building energy efficiency. , 2010, , .		0
41	A Comparative Study on Building Energy Performance between Movable and Fixed Shading Materials. <i>Applied Mechanics and Materials</i> , 2012, 164, 85-88.	0.2	0
42	The Energy and Environmental Performance of a Project Using Solar Hot Water System with Vacuum Tube Materials. <i>Advanced Materials Research</i> , 0, 771, 155-158.	0.3	0
43	Analysis of the Application Potential of Climate Adaptive Window Materials. <i>Advanced Materials Research</i> , 0, 771, 199-202.	0.3	0
44	Angular Transmittance Analysis of a Novel Thermotropic Material. <i>Scientific World Journal</i> , The, 2013, 2013, 1-4.	0.8	0
45	Evaluation of the Energy-Saving Potential of Pilot Projects for Renewable Energy Buildings. <i>Advances in Intelligent and Soft Computing</i> , 2012, , 165-169.	0.2	0
46	Uncertainty of Daylighting Performance of Manual Solar Shades and its Influence on Lighting Energy. <i>Light &amp; Engineering</i> , 2020, , 77-84.	0.1	0
47	Development of Machine Learning Models for Predicting Daylight Glare Probability. <i>Light &amp; Engineering</i> , 2021, , 33-41.	0.1	0