

# Youming Chen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

1,701

citations

24

h-index

37

g-index

83

ext. papers

2,023

ext. citations

6.4

avg, IF

5.23

L-index

#	Paper	IF	Citations
82	A review on applying ventilated double-skin facade to buildings in hot-summer and cold-winter zone in China. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 1321-1328	16.2	113
81	A combined system of chilled ceiling, displacement ventilation and desiccant dehumidification. <i>Building and Environment</i> , <b>2007</b> , 42, 3298-3308	6.5	94
80	A new approach for measuring predicted mean vote (PMV) and standard effective temperature (SET*). <i>Building and Environment</i> , <b>2003</b> , 38, 33-44	6.5	70
79	Fault-tolerant control for outdoor ventilation air flow rate in buildings based on neural network. <i>Building and Environment</i> , <b>2002</b> , 37, 691-704	6.5	60
78	Numerical investigation for thermal performance of exterior walls of residential buildings with moisture transfer in hot summer and cold winter zone of China. <i>Energy and Buildings</i> , <b>2015</b> , 93, 259-268	7	55
77	Cooling capacity improvement for a radiant ceiling panel with uniform surface temperature distribution. <i>Building and Environment</i> , <b>2016</b> , 102, 64-72	6.5	54
76	Sensor validation and reconstruction for building central chilling systems based on principal component analysis. <i>Energy Conversion and Management</i> , <b>2004</b> , 45, 673-695	10.6	53
75	Transient heat flow calculation for multilayer constructions using a frequency-domain regression method. <i>Building and Environment</i> , <b>2003</b> , 38, 45-61	6.5	52
74	Online model-based fault detection and diagnosis strategy for VAV air handling units. <i>Energy and Buildings</i> , <b>2012</b> , 55, 252-263	7	48
73	A fault detection technique for air-source heat pump water chiller/heaters. <i>Energy and Buildings</i> , <b>2009</b> , 41, 881-887	7	48
72	Determination of optimum insulation thickness for building walls with moisture transfer in hot summer and cold winter zone of China. <i>Energy and Buildings</i> , <b>2015</b> , 109, 361-368	7	43
71	A genetic-algorithm-based experimental technique for determining heat transfer coefficient of exterior wall surface. <i>Applied Thermal Engineering</i> , <b>2004</b> , 24, 339-349	5.8	41
70	An online fault diagnosis tool of VAV terminals for building management and control systems. <i>Automation in Construction</i> , <b>2012</b> , 22, 203-211	9.6	40
69	Applicability of calculation methods for conduction transfer function of building constructions. <i>International Journal of Thermal Sciences</i> , <b>2009</b> , 48, 1441-1451	4.1	40
68	A robust online fault detection and diagnosis strategy of centrifugal chiller systems for building energy efficiency. <i>Energy and Buildings</i> , <b>2015</b> , 108, 441-453	7	39
67	Indoor air quality in new hotels/guest rooms of the major world factory region. <i>International Journal of Hospitality Management</i> , <b>2009</b> , 28, 26-32	8.3	38
66	Fault detection, diagnosis and data recovery for a real building heating/cooling billing system. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 1015-1024	10.6	38

65	Dynamic modeling of the ventilated double skin façade in hot summer and cold winter zone in China. <i>Building and Environment</i> , <b>2016</b> , 106, 365-377	6.5	35
64	A novel and simple building load calculation model for building and system dynamic simulation. <i>Applied Thermal Engineering</i> , <b>2001</b> , 21, 683-702	5.8	33
63	Investigating potential of natural driving forces for ventilation in four major cities in China. <i>Building and Environment</i> , <b>2005</b> , 40, 738-746	6.5	32
62	A robust fault detection and diagnosis strategy for multiple faults of VAV air handling units. <i>Energy and Buildings</i> , <b>2016</b> , 127, 442-451	7	31
61	Optimizing the pad thickness of evaporative air-cooled chiller for maximum energy saving. <i>Energy and Buildings</i> , <b>2013</b> , 61, 146-152	7	31
60	A robust fault detection and diagnosis strategy for pressure-independent VAV terminals of real office buildings. <i>Energy and Buildings</i> , <b>2011</b> , 43, 1774-1783	7	31
59	Airflow modeling based on zonal method for natural ventilated double skin façade with Venetian blinds. <i>Energy and Buildings</i> , <b>2019</b> , 191, 211-223	7	29
58	Comparative investigations on reference models for fault detection and diagnosis in centrifugal chiller systems. <i>Energy and Buildings</i> , <b>2016</b> , 133, 246-256	7	24
57	Frequency-domain regression method for estimating CTF models of building multilayer constructions. <i>Applied Mathematical Modelling</i> , <b>2001</b> , 25, 579-592	4.5	23
56	A neural-network-based experimental technique for determining z-transfer function coefficients of a building envelope. <i>Building and Environment</i> , <b>2000</b> , 35, 181-189	6.5	22
55	An enhanced chiller FDD strategy based on the combination of the LSSVR-DE model and EWMA control charts. <i>International Journal of Refrigeration</i> , <b>2016</b> , 72, 81-96	3.8	22
54	A new procedure for calculating periodic response factors based on frequency domain regression method. <i>International Journal of Thermal Sciences</i> , <b>2005</b> , 44, 382-392	4.1	21
53	Modeling and calculation of solar gains through multi-glazing facades with specular reflection of venetian blind. <i>Solar Energy</i> , <b>2016</b> , 130, 33-45	6.8	20
52	Role of BCP in energy and environmental sustainable development and its prospects in China. <i>Renewable and Sustainable Energy Reviews</i> , <b>2007</b> , 11, 1827-1842	16.2	20
51	Verification for transient heat conduction calculation of multilayer building constructions. <i>Energy and Buildings</i> , <b>2006</b> , 38, 340-348	7	20
50	Fault-tolerant control and data recovery in HVAC monitoring system. <i>Energy and Buildings</i> , <b>2005</b> , 37, 175-180	7	20
49	Gray predicting theory and application of energy consumption of building heat-moisture system. <i>Building and Environment</i> , <b>1999</b> , 34, 417-420	6.5	20
48	Dynamic heat transfer model and applicability evaluation of aerogel glazing system in various climates of China. <i>Energy</i> , <b>2018</b> , 163, 1115-1124	7.9	20

47	Transient simulation of coupled heat and moisture transfer through multi-layer walls exposed to future climate in the hot and humid southern China area. <i>Sustainable Cities and Society</i> , <b>2020</b> , 52, 101812 <sup>10.1</sup>	19
46	Determination of Optimum Insulation Thickness of Exterior Wall with Moisture Transfer in Hot Summer and Cold Winter Zone of China. <i>Procedia Engineering</i> , <b>2015</b> , 121, 1008-1015	18
45	A validation of dynamic hygrothermal model with coupled heat and moisture transfer in porous building materials and envelopes. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101484	5.2 17
44	Dynamic simulation and parametric study of solar water heating system with phase change materials in different climate zones. <i>Solar Energy</i> , <b>2020</b> , 205, 399-408	6.8 16
43	Flow meter fault isolation in building central chilling systems using wavelet analysis. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 1700-1710	10.6 16
42	A simple procedure for calculating thermal response factors and conduction transfer functions of multilayer walls. <i>Applied Thermal Engineering</i> , <b>2002</b> , 22, 333-338	5.8 16
41	Cooling load dynamics and simplified calculation method for radiant ceiling panel and dedicated outdoor air system. <i>Energy and Buildings</i> , <b>2020</b> , 207, 109631	7 15
40	Rational selection of near-extreme coincident weather data with solar irradiation for risk-based air-conditioning design. <i>Energy and Buildings</i> , <b>2007</b> , 39, 1193-1201	7 14
39	Thermodynamic Analysis of a Mixed Refrigerant Ejector Refrigeration Cycle Operating with Two Vapor-liquid Separators. <i>Journal of Thermal Science</i> , <b>2018</b> , 27, 230-240	1.9 13
38	Transfer function method to calculate moisture absorption and desorption in buildings. <i>Building and Environment</i> , <b>1998</b> , 33, 201-207	6.5 13
37	An improvement to frequency-domain regression method for calculating conduction transfer functions of building walls. <i>Applied Thermal Engineering</i> , <b>2008</b> , 28, 661-667	5.8 13
36	A model and method to determine solar extinction coefficient of aerogel granules layer through experiment under real climatic condition. <i>Energy and Buildings</i> , <b>2019</b> , 190, 144-154	7 12
35	An average fluid temperature to estimate borehole thermal resistance of ground heat exchanger. <i>Renewable Energy</i> , <b>2011</b> , 36, 1880-1885	8.1 12
34	Short time step heat flow calculation of building constructions based on frequency-domain regression method. <i>International Journal of Thermal Sciences</i> , <b>2009</b> , 48, 2355-2364	4.1 10
33	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , <b>2020</b> , 264, 114768	10.7 9
32	Energy performance and applicability of naturally ventilated double skin façade with Venetian blinds in Yangtze River Area. <i>Sustainable Cities and Society</i> , <b>2020</b> , 61, 102348	10.1 9
31	An approach to calculate transient heat flow through multilayer spherical structures. <i>International Journal of Thermal Sciences</i> , <b>2003</b> , 42, 805-812	4.1 9
30	A radiant and convective time series method for cooling load calculation of radiant ceiling panel system. <i>Building and Environment</i> , <b>2021</b> , 188, 107411	6.5 9

29	A procedure for calculating transient thermal load through multilayer cylindrical structures. <i>Applied Thermal Engineering</i> , <b>2003</b> , 23, 2133-2145	5.8	8
28	Thermal response factors for fast parameterized design and long-term performance simulation of vertical GCHP systems. <i>Renewable Energy</i> , <b>2019</b> , 136, 793-804	8.1	7
27	Transfer function model and frequency domain validation of moisture sorption in air-conditioned buildings. <i>Building and Environment</i> , <b>2001</b> , 36, 579-588	6.5	7
26	Modeling and numerical investigation for hygrothermal behavior of porous building envelope subjected to the wind driven rain. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110572	7	7
25	Experimental comparisons on optical and thermal performance between aerogel glazed skylight and double glazed skylight under real climate condition. <i>Energy and Buildings</i> , <b>2020</b> , 222, 110028	7	6
24	Development of a Solar Control Method of the Venetian Blinds. <i>Procedia Engineering</i> , <b>2015</b> , 121, 1186-1192		5
23	Modeling and Simulation of Ventilated Double-Skin Facade Using EnergyPlus. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 241-252	0.2	5
22	Investigation on the optical and energy performances of different kinds of monolithic aerogel glazing systems. <i>Applied Energy</i> , <b>2020</b> , 261, 114487	10.7	4
21	Analyze of laminar flow and boiling heat transfer characteristics of R134a in the horizontal micro-channel under low temperature condition. <i>Procedia Engineering</i> , <b>2017</b> , 205, 2933-2939		4
20	Cooling load calculation for integrated operation of radiant and fresh air systems. <i>Procedia Engineering</i> , <b>2017</b> , 205, 2987-2994		3
19	Solar Extinction Coefficient of Silica Aerogel Calculated through Integral Model and Experimental Data. <i>Procedia Engineering</i> , <b>2017</b> , 205, 1253-1258		3
18	Development and experimental validation of a one-dimensional dynamic hygrothermal modeling based on air humidity ratio. <i>Journal of Central South University</i> , <b>2012</b> , 19, 703-708	2.1	3
17	Response to comments on Calculation of wall conduction transfer coefficients by regression in the frequency domain. <i>Building and Environment</i> , <b>2004</b> , 39, 591-593	6.5	3
16	A normal distribution model for diffuse radiation versus incidence angle. <i>Solar Energy</i> , <b>2019</b> , 186, 60-71	6.8	2
15	Development of experimental study on coupled heat and moisture transfer in porous building envelope. <i>Journal of Central South University</i> , <b>2012</b> , 19, 669-674	2.1	2
14	RESEARCH ON SYSTEM IDENTIFICATION OF WALL SURFACE HEAT TRANSFER PROCESSES. <i>Experimental Heat Transfer</i> , <b>2002</b> , 15, 31-47	2.4	2
13	A Robust Control Strategy for VAV AHU Systems and Its Application. <i>Advances in Intelligent and Soft Computing</i> , <b>2012</b> , 635-642		2
12	A response factor method to quantify the dynamic performance for pipe-embedded radiant systems. <i>Energy and Buildings</i> , <b>2021</b> , 250, 111311	7	2

11	Applicability of the transfer function method and periodic response factors method in coincident design weather data generation. <i>Energy and Buildings</i> , <b>2021</b> , 250, 111254	7	2
10	A study on fault detection and diagnosis for VAV air handling units of real buildings <b>2011</b> ,		1
9	Coupled Heat and Moisture Transfer in Two Common Walls. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 335-342	0.2	1
8	Evaluation of simulation models for predicting the energy performance of aerogel glazing system. <i>Journal of Building Engineering</i> , <b>2021</b> , 42, 103058	5.2	1
7	Comprehensive clustering method to determine coincident design day for air-conditioning system design. <i>Building and Environment</i> , <b>2022</b> , 216, 109019	6.5	0
6	A revised radiant time series method (RTSM) to calculate the cooling load for pipe-embedded radiant systems. <i>Energy and Buildings</i> , <b>2022</b> , 112199	7	0
5	DeST 3.0: A new-generation building performance simulation platform. <i>Building Simulation</i> ,	3.9	0
4	Effects of structural and operating parameters of ECP fan on dust particles removed in the transition flow regime. <i>International Journal of Coal Science and Technology</i> , <b>2014</b> , 1, 441-449	4.5	
3	Response to comment on A validation of dynamic hygrothermal model with coupled heat and moisture transfer in porous building materials and envelopes <i>Journal of Building Engineering</i> , <b>2022</b> , 47, 103936	5.2	
2	The heat gain-based generation method of coincident weather data for walls with a large thermal lag. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 042007	0.4	
1	Fast computation approach for parameterized design and simulation of vertical ground heat exchangers and GCHP systems. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 072032	0.4	