Youming Chen

List of Publications by Year in Descending Order

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	Response to comment on 'A validation of dynamic hygrothermal model with coupled heat and moisture transfer in porous building materials and envelopes' *Journal of Building Engineering*, **2022**, 47, 103936	5.2	
81	Comprehensive clustering method to determine coincident design day for air-conditioning system design. *Building and Environment*, **2022**, 216, 109019	6.5	0
80	A revised radiant time series method (RTSM) to calculate the cooling load for pipe-embedded radiant systems. *Energy and Buildings*, **2022**, 112199	7	0
79	Modeling and numerical investigation for hygrothermal behavior of porous building envelope subjected to the wind driven rain. *Energy and Buildings*, **2021**, 231, 110572	7	7
78	A radiant and convective time series method for cooling load calculation of radiant ceiling panel system. *Building and Environment*, **2021**, 188, 107411	6.5	9
77	Evaluation of simulation models for predicting the energy performance of aerogel glazing system. *Journal of Building Engineering*, **2021**, 42, 103058	5.2	1
76	A response factor method to quantify the dynamic performance for pipe-embedded radiant systems. *Energy and Buildings*, **2021**, 250, 111311	7	2
75	Applicability of the transfer function method and periodic response factors method in coincident design weather data generation. *Energy and Buildings*, **2021**, 250, 111254	7	2
74	Experimental comparisons on optical and thermal performance between aerogel glazed skylight and double glazed skylight under real climate condition. *Energy and Buildings*, **2020**, 222, 110028	7	6
73	A validation of dynamic hygrothermal model with coupled heat and moisture transfer in porous building materials and envelopes. *Journal of Building Engineering*, **2020**, 32, 101484	5.2	17
72	Dynamic simulation and parametric study of solar water heating system with phase change materials in different climate zones. *Solar Energy*, **2020**, 205, 399-408	6.8	16
71	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. *Applied Energy*, **2020**, 264, 114768	10.7	9
70	Energy performance and applicability of naturally ventilated double skin façade with Venetian blinds in Yangtze River Area. *Sustainable Cities and Society*, **2020**, 61, 102348	10.1	9
69	Investigation on the optical and energy performances of different kinds of monolithic aerogel glazing systems. *Applied Energy*, **2020**, 261, 114487	10.7	4
68	Cooling load dynamics and simplified calculation method for radiant ceiling panel and dedicated outdoor air system. *Energy and Buildings*, **2020**, 207, 109631	7	15
67	Transient simulation of coupled heat and moisture transfer through multi-layer walls exposed to future climate in the hot and humid southern China area. *Sustainable Cities and Society*, **2020**, 52, 101812	10.1	19
66	A normal distribution model for diffuse radiation versus incidence angle. *Solar Energy*, **2019**, 186, 60-71	6.8	2

65	Airflow modeling based on zonal method for natural ventilated double skin façade with Venetian blinds. *Energy and Buildings*, **2019**, 191, 211-223	7	29
64	A model and method to determine solar extinction coefficient of aerogel granules layer through experiment under real climatic condition. *Energy and Buildings*, **2019**, 190, 144-154	7	12
63	Thermal response factors for fast parameterized design and long-term performance simulation of vertical GCHP systems. *Renewable Energy*, **2019**, 136, 793-804	8.1	7
62	The heat gain-based generation method of coincident weather data for walls with a large thermal lag. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 042007	0.4	
61	Fast computation approach for parameterized design and simulation of vertical ground heat exchangers and GCHP systems. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 072032	0.4	
60	Thermodynamic Analysis of a Mixed Refrigerant Ejector Refrigeration Cycle Operating with Two Vapor-liquid Separators. *Journal of Thermal Science*, **2018**, 27, 230-240	1.9	13
59	Dynamic heat transfer model and applicability evaluation of aerogel glazing system in various climates of China. *Energy*, **2018**, 163, 1115-1124	7.9	20
58	Analyze of laminar flow and boiling heat transfer characteristics of R134a in the horizontal micro-channel under low temperature condition. *Procedia Engineering*, **2017**, 205, 2933-2939		4
57	Cooling load calculation for integrated operation of radiant and fresh air systems. *Procedia Engineering*, **2017**, 205, 2987-2994		3
56	Solar Extinction Coefficient of Silica Aerogel Calculated through Integral Model and Experimental Data. *Procedia Engineering*, **2017**, 205, 1253-1258		3
55	Dynamic modeling of the ventilated double skin façade in hot summer and cold winter zone in China. *Building and Environment*, **2016**, 106, 365-377	6.5	35
54	A robust fault detection and diagnosis strategy for multiple faults of VAV air handling units. *Energy and Buildings*, **2016**, 127, 442-451	7	31
53	Cooling capacity improvement for a radiant ceiling panel with uniform surface temperature distribution. *Building and Environment*, **2016**, 102, 64-72	6.5	54
52	Modeling and calculation of solar gains through multi-glazing facades with specular reflection of venetian blind. *Solar Energy*, **2016**, 130, 33-45	6.8	20
51	Comparative investigations on reference models for fault detection and diagnosis in centrifugal chiller systems. *Energy and Buildings*, **2016**, 133, 246-256	7	24
50	An enhanced chiller FDD strategy based on the combination of the LSSVR-DE model and EWMA control charts. *International Journal of Refrigeration*, **2016**, 72, 81-96	3.8	22
49	Numerical investigation for thermal performance of exterior walls of residential buildings with moisture transfer in hot summer and cold winter zone of China. *Energy and Buildings*, **2015**, 93, 259-268	7	55
48	A robust online fault detection and diagnosis strategy of centrifugal chiller systems for building energy efficiency. *Energy and Buildings*, **2015**, 108, 441-453	7	39

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47	Determination of optimum insulation thickness for building walls with moisture transfer in hot summer and cold winter zone of China. *Energy and Buildings*, **2015**, 109, 361-368	7	43
46	Determination of Optimum Insulation Thickness of Exterior Wall with Moisture Transfer in Hot Summer and Cold Winter Zone of China. *Procedia Engineering*, **2015**, 121, 1008-1015		18
45	Development of a Solar Control Method of the Venetian Blinds. *Procedia Engineering*, **2015**, 121, 1186-1192		5
44	Effects of structural and operating parameters of ECP fan on dust particles removed in the transition flow regime. *International Journal of Coal Science and Technology*, **2014**, 1, 441-449	4.5	
43	Modeling and Simulation of Ventilated Double-Skin Facade Using EnergyPlus. *Lecture Notes in Electrical Engineering*, **2014**, 241-252	0.2	5
42	Coupled Heat and Moisture Transfer in Two Common Walls. *Lecture Notes in Electrical Engineering*, **2014**, 335-342	0.2	1
41	Optimizing the pad thickness of evaporative air-cooled chiller for maximum energy saving. *Energy and Buildings*, **2013**, 61, 146-152	7	31
40	An online fault diagnosis tool of VAV terminals for building management and control systems. *Automation in Construction*, **2012**, 22, 203-211	9.6	40
39	Online model-based fault detection and diagnosis strategy for VAV air handling units. *Energy and Buildings*, **2012**, 55, 252-263	7	48
38	Development of experimental study on coupled heat and moisture transfer in porous building envelope. *Journal of Central South University*, **2012**, 19, 669-674	2.1	2
37	Development and experimental validation of a one-dimensional dynamic hygrothermal modeling based on air humidity ratio. *Journal of Central South University*, **2012**, 19, 703-708	2.1	3
36	A Robust Control Strategy for VAV AHU Systems and Its Application. *Advances in Intelligent and Soft Computing*, **2012**, 635-642		2
35	A robust fault detection and diagnosis strategy for pressure-independent VAV terminals of real office buildings. *Energy and Buildings*, **2011**, 43, 1774-1783	7	31
34	An average fluid temperature to estimate borehole thermal resistance of ground heat exchanger. *Renewable Energy*, **2011**, 36, 1880-1885	8.1	12
33	A study on fault detection and diagnosis for VAV air handling units of real buildings **2011**,		1
32	Fault detection, diagnosis and data recovery for a real building heating/cooling billing system. *Energy Conversion and Management*, **2010**, 51, 1015-1024	10.6	38
31	A review on applying ventilated double-skin facade to buildings in hot-summer and cold-winter zone in China. *Renewable and Sustainable Energy Reviews*, **2010**, 14, 1321-1328	16.2	113
30	Applicability of calculation methods for conduction transfer function of building constructions. *International Journal of Thermal Sciences*, **2009**, 48, 1441-1451	4.1	40

29	A fault detection technique for air-source heat pump water chiller/heaters. *Energy and Buildings*, **2009**, 41, 881-887	7	48
28	Short time step heat flow calculation of building constructions based on frequency-domain regression method. *International Journal of Thermal Sciences*, **2009**, 48, 2355-2364	4.1	10
27	Indoor air quality in new hotels' guest rooms of the major world factory region. *International Journal of Hospitality Management*, **2009**, 28, 26-32	8.3	38
26	An improvement to frequency-domain regression method for calculating conduction transfer functions of building walls. *Applied Thermal Engineering*, **2008**, 28, 661-667	5.8	13
25	A combined system of chilled ceiling, displacement ventilation and desiccant dehumidification. *Building and Environment*, **2007**, 42, 3298-3308	6.5	94
24	Rational selection of near-extreme coincident weather data with solar irradiation for risk-based air-conditioning design. *Energy and Buildings*, **2007**, 39, 1193-1201	7	14
23	Role of BCHP in energy and environmental sustainable development and its prospects in China. *Renewable and Sustainable Energy Reviews*, **2007**, 11, 1827-1842	16.2	20
22	Flow meter fault isolation in building central chilling systems using wavelet analysis. *Energy Conversion and Management*, **2006**, 47, 1700-1710	10.6	16
21	Verification for transient heat conduction calculation of multilayer building constructions. *Energy and Buildings*, **2006**, 38, 340-348	7	20
20	Fault-tolerant control and data recovery in HVAC monitoring system. *Energy and Buildings*, **2005**, 37, 175-180	7	20
19	Investigating potential of natural driving forces for ventilation in four major cities in China. *Building and Environment*, **2005**, 40, 738-746	6.5	32
18	A new procedure for calculating periodic response factors based on frequency domain regression method. *International Journal of Thermal Sciences*, **2005**, 44, 382-392	4.1	21
17	Sensor validation and reconstruction for building central chilling systems based on principal component analysis. *Energy Conversion and Management*, **2004**, 45, 673-695	10.6	53
16	A genetic-algorithm-based experimental technique for determining heat transfer coefficient of exterior wall surface. *Applied Thermal Engineering*, **2004**, 24, 339-349	5.8	41
15	Response to comments on "Calculation of wall conduction transfer coefficients by regression in the frequency domain" *Building and Environment*, **2004**, 39, 591-593	6.5	3
14	Transient heat flow calculation for multilayer constructions using a frequency-domain regression method. *Building and Environment*, **2003**, 38, 45-61	6.5	52
13	A new approach for measuring predicted mean vote (PMV) and standard effective temperature (SET*). *Building and Environment*, **2003**, 38, 33-44	6.5	70
12	A procedure for calculating transient thermal load through multilayer cylindrical structures. *Applied Thermal Engineering*, **2003**, 23, 2133-2145	5.8	8

11	An approach to calculate transient heat flow through multilayer spherical structures. *International Journal of Thermal Sciences*, **2003**, 42, 805-812	4.1	9
10	A simple procedure for calculating thermal response factors and conduction transfer functions of multilayer walls. *Applied Thermal Engineering*, **2002**, 22, 333-338	5.8	16
9	Fault-tolerant control for outdoor ventilation air flow rate in buildings based on neural network. *Building and Environment*, **2002**, 37, 691-704	6.5	60
8	RESEARCH ON SYSTEM IDENTIFICATION OF WALL SURFACE HEAT TRANSFER PROCESSES. *Experimental Heat Transfer*, **2002**, 15, 31-47	2.4	2
7	Transfer function model and frequency domain validation of moisture sorption in air-conditioned buildings. *Building and Environment*, **2001**, 36, 579-588	6.5	7
6	Frequency-domain regression method for estimating CTF models of building multilayer constructions. *Applied Mathematical Modelling*, **2001**, 25, 579-592	4.5	23
5	A novel and simple building load calculation model for building and system dynamic simulation. *Applied Thermal Engineering*, **2001**, 21, 683-702	5.8	33
4	A neural-network-based experimental technique for determining z-transfer function coefficients of a building envelope. *Building and Environment*, **2000**, 35, 181-189	6.5	22
3	Gray predicting theory and application of energy consumption of building heat-moisture system. *Building and Environment*, **1999**, 34, 417-420	6.5	20
2	Transfer function method to calculate moisture absorption and desorption in buildings. *Building and Environment*, **1998**, 33, 201-207	6.5	13
1	DeST 3.0: A new-generation building performance simulation platform. *Building Simulation*,	3.9	0