

Youming Chen

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,319
citations

172207

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docs citations

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times ranked

1494
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2010, 14, 1321-1328.	8.2	141
2	A combined system of chilled ceiling, displacement ventilation and desiccant dehumidification. <i>Building and Environment</i> , 2007, 42, 3298-3308.	3.0	120
3	A new approach for measuring predicted mean vote (PMV) and standard effective temperature (SET ^a). <i>Building and Environment</i> , 2003, 38, 33-44.	3.0	89
4	Cooling capacity improvement for a radiant ceiling panel with uniform surface temperature distribution. <i>Building and Environment</i> , 2016, 102, 64-72.	3.0	79
5	Fault-tolerant control for outdoor ventilation air flow rate in buildings based on neural network. <i>Building and Environment</i> , 2002, 37, 691-704.	3.0	74
6	Sensor validation and reconstruction for building central chilling systems based on principal component analysis. <i>Energy Conversion and Management</i> , 2004, 45, 673-695.	4.4	74
7	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> , 2015, 93, 259-268.	3.1	70
8	Transient heat flow calculation for multilayer constructions using a frequency-domain regression method. <i>Building and Environment</i> , 2003, 38, 45-61.	3.0	59
9	A fault detection technique for air-source heat pump water chiller/heaters. <i>Energy and Buildings</i> , 2009, 41, 881-887.	3.1	59
10	Online model-based fault detection and diagnosis strategy for VAV air handling units. <i>Energy and Buildings</i> , 2012, 55, 252-263.	3.1	59
11	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> , 2015, 109, 361-368.	3.1	59
12	DeST 3.0: A new-generation building performance simulation platform. <i>Building Simulation</i> , 2022, 15, 1849-1868.	3.0	58
13	A robust online fault detection and diagnosis strategy of centrifugal chiller systems for building energy efficiency. <i>Energy and Buildings</i> , 2015, 108, 441-453.	3.1	56
14	An online fault diagnosis tool of VAV terminals for building management and control systems. <i>Automation in Construction</i> , 2012, 22, 203-211.	4.8	50
15	Dynamic modeling of the ventilated double skin facade in hot summer and cold winter zone in China. <i>Building and Environment</i> , 2016, 106, 365-377.	3.0	49
16	Investigating potential of natural driving forces for ventilation in four major cities in China. <i>Building and Environment</i> , 2005, 40, 738-746.	3.0	48
17	Fault detection, diagnosis and data recovery for a real building heating/cooling billing system. <i>Energy Conversion and Management</i> , 2010, 51, 1015-1024.	4.4	48
18	A genetic-algorithm-based experimental technique for determining heat transfer coefficient of exterior wall surface. <i>Applied Thermal Engineering</i> , 2004, 24, 339-349.	3.0	46

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19	A robust fault detection and diagnosis strategy for multiple faults of VAV air handling units. <i>Energy and Buildings</i> , 2016, 127, 442-451.	3.1	45
20	Applicability of calculation methods for conduction transfer function of building constructions. <i>International Journal of Thermal Sciences</i> , 2009, 48, 1441-1451.	2.6	44
21	Indoor air quality in new hotels's™ guest rooms of the major world factory region. <i>International Journal of Hospitality Management</i> , 2009, 28, 26-32.	5.3	43
22	A novel and simple building load calculation model for building and system dynamic simulation. <i>Applied Thermal Engineering</i> , 2001, 21, 683-702.	3.0	38
23	Comparative investigations on reference models for fault detection and diagnosis in centrifugal chiller systems. <i>Energy and Buildings</i> , 2016, 133, 246-256.	3.1	38
24	Airflow modeling based on zonal method for natural ventilated double skin facade with Venetian blinds. <i>Energy and Buildings</i> , 2019, 191, 211-223.	3.1	37
25	A robust fault detection and diagnosis strategy for pressure-independent VAV terminals of real office buildings. <i>Energy and Buildings</i> , 2011, 43, 1774-1783.	3.1	36
26	An enhanced chiller FDD strategy based on the combination of the LSSVR-DE model and EWMA control charts. <i>International Journal of Refrigeration</i> , 2016, 72, 81-96.	1.8	36
27	Optimizing the pad thickness of evaporative air-cooled chiller for maximum energy saving. <i>Energy and Buildings</i> , 2013, 61, 146-152.	3.1	35
28	Dynamic simulation and parametric study of solar water heating system with phase change materials in different climate zones. <i>Solar Energy</i> , 2020, 205, 399-408.	2.9	33
29	Dynamic heat transfer model and applicability evaluation of aerogel glazing system in various climates of China. <i>Energy</i> , 2018, 163, 1115-1124.	4.5	32
30	A validation of dynamic hygrothermal model with coupled heat and moisture transfer in porous building materials and envelopes. <i>Journal of Building Engineering</i> , 2020, 32, 101484.	1.6	29
31	Energy performance and applicability of naturally ventilated double skin facade with Venetian blinds in Yangtze River Area. <i>Sustainable Cities and Society</i> , 2020, 61, 102348.	5.1	27
32	A neural-network-based experimental technique for determining z-transfer function coefficients of a building envelope. <i>Building and Environment</i> , 2000, 35, 181-189.	3.0	26
33	A new procedure for calculating periodic response factors based on frequency domain regression method. <i>International Journal of Thermal Sciences</i> , 2005, 44, 382-392.	2.6	26
34	Role of BCHP in energy and environmental sustainable development and its prospects in China. <i>Renewable and Sustainable Energy Reviews</i> , 2007, 11, 1827-1842.	8.2	26
35	Determination of Optimum Insulation Thickness of Exterior Wall with Moisture Transfer in Hot Summer and Cold Winter Zone of China. <i>Procedia Engineering</i> , 2015, 121, 1008-1015.	1.2	26
36	Modeling and calculation of solar gains through multi-glazing facades with specular reflection of venetian blind. <i>Solar Energy</i> , 2016, 130, 33-45.	2.9	26

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37	Frequency-domain regression method for estimating CTF models of building multilayer constructions. <i>Applied Mathematical Modelling</i> , 2001, 25, 579-592.	2.2	25
38	Fault-tolerant control and data recovery in HVAC monitoring system. <i>Energy and Buildings</i> , 2005, 37, 175-180.	3.1	24
39	Gray predicting theory and application of energy consumption of building heat-moisture system. <i>Building and Environment</i> , 1999, 34, 417-420.	3.0	23
40	Verification for transient heat conduction calculation of multilayer building constructions. <i>Energy and Buildings</i> , 2006, 38, 340-348.	3.1	23
41	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> , 2020, 52, 101812.	5.1	23
42	Cooling load dynamics and simplified calculation method for radiant ceiling panel and dedicated outdoor air system. <i>Energy and Buildings</i> , 2020, 207, 109631.	3.1	23
43	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020, 264, 114768.	5.1	23
44	Rational selection of near-extreme coincident weather data with solar irradiation for risk-based air-conditioning design. <i>Energy and Buildings</i> , 2007, 39, 1193-1201.	3.1	20
45	A simple procedure for calculating thermal response factors and conduction transfer functions of multilayer walls. <i>Applied Thermal Engineering</i> , 2002, 22, 333-338.	3.0	19
46	Modeling and numerical investigation for hygrothermal behavior of porous building envelope subjected to the wind driven rain. <i>Energy and Buildings</i> , 2021, 231, 110572.	3.1	19
47	Flow meter fault isolation in building central chilling systems using wavelet analysis. <i>Energy Conversion and Management</i> , 2006, 47, 1700-1710.	4.4	18
48	Transfer function method to calculate moisture absorption and desorption in buildings. <i>Building and Environment</i> , 1998, 33, 201-207.	3.0	17
49	Thermodynamic Analysis of a Mixed Refrigerant Ejector Refrigeration Cycle Operating with Two Vapor-liquid Separators. <i>Journal of Thermal Science</i> , 2018, 27, 230-240.	0.9	16
50	A model and method to determine solar extinction coefficient of aerogel granules layer through experiment under real climatic condition. <i>Energy and Buildings</i> , 2019, 190, 144-154.	3.1	16
51	A radiant and convective time series method for cooling load calculation of radiant ceiling panel system. <i>Building and Environment</i> , 2021, 188, 107411.	3.0	16
52	An average fluid temperature to estimate borehole thermal resistance of ground heat exchanger. <i>Renewable Energy</i> , 2011, 36, 1880-1885.	4.3	15
53	An improvement to frequency-domain regression method for calculating conduction transfer functions of building walls. <i>Applied Thermal Engineering</i> , 2008, 28, 661-667.	3.0	14
54	Experimental comparisons on optical and thermal performance between aerogel glazed skylight and double glazed skylight under real climate condition. <i>Energy and Buildings</i> , 2020, 222, 110028.	3.1	13

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55	An approach to calculate transient heat flow through multilayer spherical structures. International Journal of Thermal Sciences, 2003, 42, 805-812.	2.6	12
56	Thermal response factors for fast parameterized design and long-term performance simulation of vertical GCHP systems. Renewable Energy, 2019, 136, 793-804.	4.3	12
57	Short time step heat flow calculation of building constructions based on frequency-domain regression method. International Journal of Thermal Sciences, 2009, 48, 2355-2364.	2.6	11
58	A procedure for calculating transient thermal load through multilayer cylindrical structures. Applied Thermal Engineering, 2003, 23, 2133-2145.	3.0	8
59	Transfer function model and frequency domain validation of moisture sorption in air-conditioned buildings. Building and Environment, 2001, 36, 579-588.	3.0	7
60	Development of a Solar Control Method of the Venetian Blinds. Procedia Engineering, 2015, 121, 1186-1192.	1.2	7
61	Investigation on the optical and energy performances of different kinds of monolithic aerogel glazing systems. Applied Energy, 2020, 261, 114487.	5.1	7
62	Applicability of the transfer function method and periodic response factors method in coincident design weather data generation. Energy and Buildings, 2021, 250, 111254.	3.1	7
63	Modeling and Simulation of Ventilated Double-Skin Facade Using EnergyPlus. Lecture Notes in Electrical Engineering, 2014, , 241-252.	0.3	7
64	Solar Extinction Coefficient of Silica Aerogel Calculated through Integral Model and Experimental Data. Procedia Engineering, 2017, 205, 1253-1258.	1.2	6
65	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.	1.2	5
66	A normal distribution model for diffuse radiation versus incidence angle. Solar Energy, 2019, 186, 60-71.	2.9	5
67	Comprehensive clustering method to determine coincident design day for air-conditioning system design. Building and Environment, 2022, 216, 109019.	3.0	5
68	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.	1.2	4
69	Cooling load calculation for integrated operation of radiant and fresh air systems. Procedia Engineering, 2017, 205, 2987-2994.	1.2	4
70	A response factor method to quantify the dynamic performance for pipe-embedded radiant systems. Energy and Buildings, 2021, 250, 111311.	3.1	4
71	A revised radiant time series method (RTSM) to calculate the cooling load for pipe-embedded radiant systems. Energy and Buildings, 2022, 268, 112199.	3.1	4
72	Response to comments on "Calculation of wall conduction transfer coefficients by regression in the frequency domain". Building and Environment, 2004, 39, 591-593.	3.0	3

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73	RESEARCH ON SYSTEM IDENTIFICATION OF WALL SURFACE HEAT TRANSFER PROCESSES. <i>Experimental Heat Transfer</i> , 2002, 15, 31-47.	2.3	2
74	A study on fault detection and diagnosis for VAV air handling units of real buildings. , 2011, , .		2
75	Development of experimental study on coupled heat and moisture transfer in porous building envelope. <i>Journal of Central South University</i> , 2012, 19, 669-674.	1.2	2
76	Evaluation of simulation models for predicting the energy performance of aerogel glazing system. <i>Journal of Building Engineering</i> , 2021, 42, 103058.	1.6	2
77	Coupled Heat and Moisture Transfer in Two Common Walls. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 335-342.	0.3	2
78	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> , 2014, 1, 441-449.	2.7	0
79	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> , 2019, 609, 042007.	0.3	0
80	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> , 2019, 609, 072032.	0.3	0
81	Response to comment on "Validation of dynamic hygrothermal model with coupled heat and moisture transfer in porous building materials and envelopes". <i>Journal of Building Engineering</i> , 2022, 47, 103936.	1.6	0