

Yuxiang Chen

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

890
citations

643344

15
h-index

536525

29
g-index

33
all docs

33
docs citations

33
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal resistance of masonry walls: a literature review on influence factors, evaluation, and improvement. <i>Journal of Building Physics</i> , 2022, 45, 528-567.	1.2	18
2	Structural Analysis and Design of Sustainable Cross-Laminated Timber Foundation Walls. <i>Buildings</i> , 2022, 12, 979.	1.4	1
3	Real-time thermal dynamic analysis of a house using RC models and joint state-parameter estimation. <i>Building and Environment</i> , 2021, 188, 107184.	3.0	14
4	Parameter estimation of resistor-capacitor models for building thermal dynamics using the unscented Kalman filter. <i>Journal of Building Engineering</i> , 2021, 34, 101639.	1.6	8
5	Energy-Efficiency Requirements for Residential Building Envelopes in Cold-Climate Regions. <i>Atmosphere</i> , 2021, 12, 405.	1.0	9
6	A sensitivity analysis on effective parameters for sliding/melting prediction of snow cover on solar photovoltaic panels. <i>Cold Regions Science and Technology</i> , 2021, 185, 103262.	1.6	7
7	Lateral Resistance of Sheathing-to-Framing Nailed Joints with an Intermediate Insulation Layer. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	2
8	Structural performance of light wood shear walls built with insulated sheathing panels. <i>Engineering Structures</i> , 2021, 241, 112449.	2.6	1
9	Bending Stiffness and Load-Deflection Response Prediction of Mass Timber Panel-Concrete Composite Floor System with Mechanical Connectors. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, .	1.0	4
10	Performance Analysis of the IOTA DAG-Based Distributed Ledger. <i>ACM Transactions on Modeling and Performance Evaluation of Computing Systems</i> , 2021, 6, 1-20.	0.8	6
11	Heat transfer model for energy-active windows – An evaluation of efficient reuse of waste heat in buildings. <i>Renewable Energy</i> , 2020, 162, 2318-2329.	4.3	15
12	Intelligent Scheduling of Heat Pump to Minimize the Cost of Electricity. , 2020, , .		0
13	Energy Management for Smart Homes – State of the Art. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3459.	1.3	15
14	Achieving housing energy-efficiency requirements: Methodologies and impacts on housing construction cost and energy performance. <i>Journal of Building Engineering</i> , 2019, 26, 100874.	1.6	6
15	Data-driven modeling of building thermal dynamics: Methodology and state of the art. <i>Energy and Buildings</i> , 2019, 203, 109405.	3.1	50
16	Towards A Scalable DAG-based Distributed Ledger for Smart Communities. , 2019, , .		26
17	Development of RC model for thermal dynamic analysis of buildings through model structure simplification. <i>Energy and Buildings</i> , 2019, 195, 51-67.	3.1	55
18	Photovoltaic electricity generation loss due to snow – A literature review on influence factors, estimation, and mitigation. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 171-182.	8.2	56

#	ARTICLE	IF	CITATIONS
19	Energy code compliant house design for lowest lifecycle cost based on market-available technologies. Canadian Journal of Civil Engineering, 2019, 46, 308-321.	0.7	5
20	Observations of Ice at the Interface Between Snow Accumulations and Photovoltaic Panel Surfaces. , 2018, , .		2
21	IoT-based smart homes: A review of system architecture, software, communications, privacy and security. Internet of Things (Netherlands), 2018, 1-2, 81-98.	4.9	181
22	Canadian low-energy housing: National energy context, and a case study of a demonstration house with focus on its ground-source heat pump. Science and Technology for the Built Environment, 2017, 23, 651-668.	0.8	2
23	Integrating hollow-core masonry walls and precast concrete slabs into building space heating and cooling. Journal of Building Engineering, 2016, 5, 277-287.	1.6	26
24	Modelling of an Active PCM Thermal Energy Storage for Control Applications. Energy Procedia, 2015, 78, 1690-1695.	1.8	21
25	PCM Thermal Energy Storage in Buildings: Experimental Study and Applications. Energy Procedia, 2015, 70, 219-228.	1.8	51
26	Modeling approaches for the characterization of building thermal dynamics and model-based control: A case study. Science and Technology for the Built Environment, 2015, 21, 824-836.	0.8	12
27	Design and operation methodology for active building-integrated thermal energy storage systems. Energy and Buildings, 2014, 84, 575-585.	3.1	20
28	A charging control strategy for active building-integrated thermal energy storage systems using frequency domain modeling. Energy and Buildings, 2014, 84, 651-661.	3.1	17
29	Frequency domain and finite difference modeling of ventilated concrete slabs and comparison with field measurements: Part 1, modeling methodology. International Journal of Heat and Mass Transfer, 2013, 66, 948-956.	2.5	21
30	Frequency domain and finite difference modeling of ventilated concrete slabs and comparison with field measurements: Part 2. Application. International Journal of Heat and Mass Transfer, 2013, 66, 957-966.	2.5	17
31	Modeling, design and thermal performance of a BIPV/T system thermally coupled with a ventilated concrete slab in a low energy solar house: Part 2, ventilated concrete slab. Solar Energy, 2010, 84, 1908-1919.	2.9	71
32	Modeling, design and thermal performance of a BIPV/T system thermally coupled with a ventilated concrete slab in a low energy solar house: Part 1, BIPV/T system and house energy concept. Solar Energy, 2010, 84, 1892-1907.	2.9	149