

# Hua Ge

## List of Publications by Year in descending order

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38  
papers

746  
citations

566801

15  
h-index

552369

26  
g-index

38  
all docs

38  
docs citations

38  
times ranked

516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability of Moisture Reference Year (MRY) selection methods for hygrothermal performance analysis of wood-frame walls under historical and future climates. <i>Building and Environment</i> , 2022, 207, 108513.	3.0	5
2	Calibration of building model based on indoor temperature for overheating assessment using genetic algorithm: Methodology, evaluation criteria, and case study. <i>Building and Environment</i> , 2022, 207, 108518.	3.0	23
3	Do high energy-efficient buildings increase overheating risk in cold climates? Causes and mitigation measures required under recent and future climates. <i>Building and Environment</i> , 2022, 219, 109230.	3.0	23
4	Wind-driven rain (WDR) loading on building facades: A state-of-the-art review. <i>Building and Environment</i> , 2022, 221, 109314.	3.0	10
5	Thermal resistance of multi-functional panels in cold-climate regions. <i>Journal of Building Engineering</i> , 2021, 33, 101838.	1.6	5
6	Optimization of passive solar design and integration of building integrated photovoltaic/thermal (BIPV/T) system in northern housing. <i>Building Simulation</i> , 2021, 14, 1467-1486.	3.0	17
7	Wind-driven rain on buildings: Accuracy of the ISO semi-empirical model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 212, 104606.	1.7	10
8	Effect of vapor diffusion port on the hygrothermal performance of wood-frame walls. <i>Journal of Building Engineering</i> , 2021, 39, 102280.	1.6	2
9	Future projected changes in moisture index over Canada. <i>Building and Environment</i> , 2021, 199, 107923.	3.0	6
10	Reliability of Existing Climate Indices in Assessing the Freeze-Thaw Damage Risk of Internally Insulated Masonry Walls. <i>Buildings</i> , 2021, 11, 482.	1.4	6
11	Policy recommendations for the zero energy building promotion towards carbon neutral in Asia-Pacific Region. <i>Energy Policy</i> , 2021, 159, 112661.	4.2	49
12	Moisture-safe attic design in extremely cold climate: Hygrothermal simulations. <i>Building and Environment</i> , 2020, 182, 107166.	3.0	9
13	Evaluating the potential of freeze-thaw damage in internally insulated masonry under climate change using different models. <i>MATEC Web of Conferences</i> , 2019, 282, 02081.	0.1	6
14	Field study of hygrothermal performance of highly insulated wood-frame walls under simulated air leakage. <i>Building and Environment</i> , 2019, 160, 106202.	3.0	13
15	Effect of turbulence modeling schemes on wind-driven rain deposition on a mid-rise building: CFD modeling and validation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 184, 362-377.	1.7	20
16	Integration of Building Integrated Photovoltaic/Thermal (BIPV/T) System with Heat Recovery Ventilators for Improved Performance Under Extreme Cold Climates. <i>Springer Proceedings in Energy</i> , 2019, , 97-110.	0.2	2
17	Improved assessment of wind-driven rain on building facade based on ISO standard with high-resolution on-site weather data. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 176, 183-196.	1.7	15
18	Field measurements of hygrothermal performance of attics in extreme cold climates. <i>Building and Environment</i> , 2018, 134, 114-130.	3.0	7

#	ARTICLE	IF	CITATIONS
19	Experimental study of thermal and airtightness performance of structural insulated panel joints in cold climates. <i>Building and Environment</i> , 2017, 115, 345-357.	3.0	19
20	Field measurements of wind-driven rain on mid-and high-rise buildings in three Canadian regions. <i>Building and Environment</i> , 2017, 116, 228-245.	3.0	22
21	Effect of overhang on wind-driven rain wetting of facades on a mid-rise building: Field measurements. <i>Building and Environment</i> , 2017, 118, 234-250.	3.0	16
22	Effect of dynamic modeling of thermal bridges on the energy performance of residential buildings with high thermal mass for cold climates. <i>Sustainable Cities and Society</i> , 2017, 34, 250-263.	5.1	33
23	Effect of air leakage on the hygrothermal performance of highly insulated wood frame walls: Comparison of air leakage modelling methods. <i>Building and Environment</i> , 2017, 123, 363-377.	3.0	13
24	Sensitivity Analysis of Hygrothermal Performance of Cross-Laminated Timber Wall Assemblies. , 2017, , 132-151.		0
25	Dynamic effect of balcony thermal bridges on the energy performance of a high-rise residential building in Canada. <i>Energy and Buildings</i> , 2016, 116, 78-88.	3.1	21
26	Impact of future climates on the durability of typical residential wall assemblies retrofitted to the PassiveHaus for the Eastern Canada region. <i>Building and Environment</i> , 2016, 97, 111-125.	3.0	36
27	Energy positive curtain wall configurations for a cold climate using the Analysis of Variance (ANOVA) approach. <i>Building Simulation</i> , 2016, 9, 297-310.	3.0	17
28	Impact of Curtain Wall Configurations on Building Energy Performance in the Perimeter Zone for a Cold Climate. <i>Energy Procedia</i> , 2015, 78, 352-357.	1.8	12
29	Influence of time resolution and averaging techniques of meteorological data on the estimation of wind-driven rain load on building facades for Canadian climates. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 143, 50-61.	1.7	10
30	Dynamic effect of thermal bridges on the energy performance of a low-rise residential building. <i>Energy and Buildings</i> , 2015, 105, 106-118.	3.1	58
31	Experimental and numerical investigations of the effects of air leakage on temperature and moisture fields in porous insulation. <i>Building and Environment</i> , 2015, 94, 457-466.	3.0	14
32	Evaluation of Parameters Influencing the Moisture Buffering Potential of Hygroscopic Materials with BSim Simulations. <i>Buildings</i> , 2014, 4, 375-393.	1.4	5
33	Timber framing factors in Toronto residential house construction. <i>Architectural Science Review</i> , 2014, 57, 159-168.	1.1	9
34	Influence of moisture load profiles on moisture buffering potential and moisture residuals of three groups of hygroscopic materials. <i>Building and Environment</i> , 2014, 81, 162-171.	3.0	38
35	Hygrothermal performance of cross-laminated timber wall assemblies with built-in moisture: field measurements and simulations. <i>Building and Environment</i> , 2014, 71, 95-110.	3.0	77
36	Effects of roof overhangs on wind-driven rain wetting of a low-rise cubic building: A numerical study. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 125, 38-51.	1.7	36

#	ARTICLE	IF	CITATIONS
37	Impact of balcony thermal bridges on the overall thermal performance of multi-unit residential buildings: A case study. <i>Energy and Buildings</i> , 2013, 60, 163-173.	3.1	74
38	Test Method to Measure the Relative Capacity of Wall Panels to Evacuate Moisture from Their Stud Cavity. <i>Journal of Architectural Engineering</i> , 2007, 13, 194-204.	0.8	8