

# Borong Lin

## 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.

123  
papers

2,956  
citations

29  
h-index

51  
g-index

130  
ext. papers

3,916  
ext. citations

6.3  
avg, IF

5.91  
L-index

#	Paper	IF	Citations
123	Individual difference in thermal comfort: A literature review. <i>Building and Environment</i> , <b>2018</b> , 138, 181-193	6.5	220
122	The impact of thermal environment on occupant IEQ perception and productivity. <i>Building and Environment</i> , <b>2017</b> , 121, 158-167	6.5	146
121	Numerical studies of the outdoor wind environment and thermal comfort at pedestrian level in housing blocks with different building layout patterns and trees arrangement. <i>Renewable Energy</i> , <b>2015</b> , 73, 18-27	8.1	121
120	A review of operating performance in green buildings: Energy use, indoor environmental quality and occupant satisfaction. <i>Energy and Buildings</i> , <b>2019</b> , 183, 500-514	7	112
119	Evaluating thermal comfort in mixed-mode buildings: A field study in a subtropical climate. <i>Building and Environment</i> , <b>2015</b> , 88, 46-54	6.5	111
118	The dynamics of thermal comfort expectations: The problem, challenge and impication. <i>Building and Environment</i> , <b>2016</b> , 95, 322-329	6.5	94
117	Sustainable housing and urban construction in China. <i>Energy and Buildings</i> , <b>2004</b> , 36, 1287-1297	7	94
116	Numerical simulation studies of the different vegetation patterns effects on outdoor pedestrian thermal comfort. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2008</b> , 96, 1707-1718	3.7	92
115	The underlying linkage between personal control and thermal comfort: Psychological or physical effects?. <i>Energy and Buildings</i> , <b>2016</b> , 111, 56-63	7	87
114	Annual performance of liquid desiccant based independent humidity control HVAC system. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 1198-1207	5.8	84
113	Evaluation and comparison of thermal comfort of convective and radiant heating terminals in office buildings. <i>Building and Environment</i> , <b>2016</b> , 106, 91-102	6.5	80
112	Comparative study on the indoor environment quality of green office buildings in China with a long-term field measurement and investigation. <i>Building and Environment</i> , <b>2015</b> , 84, 80-88	6.5	75
111	Numerical investigations of flow and passive pollutant exposure in high-rise deep street canyons with various street aspect ratios and viaduct settings. <i>Science of the Total Environment</i> , <b>2017</b> , 584-585, 189-206	10.2	70
110	Investigation of winter indoor thermal environment and heating demand of urban residential buildings in China's hot summer Cold winter climate region. <i>Building and Environment</i> , <b>2016</b> , 101, 9-18	6.5	66
109	Combined cogeneration and liquid-desiccant system applied in a demonstration building. <i>Energy and Buildings</i> , <b>2004</b> , 36, 945-953	7	66
108	Dynamic LCA framework for environmental impact assessment of buildings. <i>Energy and Buildings</i> , <b>2017</b> , 149, 310-320	7	63
107	Residential heating energy consumption modeling through a bottom-up approach for China's Hot Summer Cold Winter climatic region. <i>Energy and Buildings</i> , <b>2015</b> , 109, 65-74	7	58

106	Preparation and optimization of ultra-light and thermal insulative aerogel foam concrete. <i>Construction and Building Materials</i> , <b>2019</b> , 205, 529-542	6.7	56
105	Measured energy use and indoor environment quality in green office buildings in China. <i>Energy and Buildings</i> , <b>2016</b> , 129, 9-18	7	49
104	A dynamic life cycle carbon emission assessment on green and non-green buildings in China. <i>Energy and Buildings</i> , <b>2017</b> , 149, 272-281	7	48
103	Investigation of indoor environment quality of Chinese large-hub airport terminal buildings through longitudinal field measurement and subjective survey. <i>Building and Environment</i> , <b>2015</b> , 94, 593-605	6.5	47
102	The uncertainty of subjective thermal comfort measurement. <i>Energy and Buildings</i> , <b>2018</b> , 181, 38-49	7	39
101	A comparison of winter indoor thermal environment and thermal comfort between regions in Europe, North America, and Asia. <i>Building and Environment</i> , <b>2017</b> , 117, 208-217	6.5	38
100	Study on human skin temperature and thermal evaluation in step change conditions: From non-neutrality to neutrality. <i>Energy and Buildings</i> , <b>2017</b> , 156, 29-39	7	37
99	A model to compare convective and radiant heating systems for intermittent space heating. <i>Applied Energy</i> , <b>2018</b> , 215, 211-226	10.7	37
98	An ANN-based fast building energy consumption prediction method for complex architectural form at the early design stage. <i>Building Simulation</i> , <b>2019</b> , 12, 665-681	3.9	36
97	Modeling and measurement study on an intermittent heating system of a residence in Cambridgeshire. <i>Building and Environment</i> , <b>2015</b> , 92, 380-386	6.5	36
96	Rational selection of heating temperature set points for China's hot-summer-cold winter climatic region. <i>Building and Environment</i> , <b>2015</b> , 93, 63-70	6.5	32
95	Mapping potentials of low-grade industrial waste heat in Northern China. <i>Resources, Conservation and Recycling</i> , <b>2017</b> , 125, 335-348	11.9	31
94	Impact of individual IEQ factors on passengers' overall satisfaction in Chinese airport terminals. <i>Building and Environment</i> , <b>2017</b> , 112, 241-249	6.5	27
93	Revisiting individual and group differences in thermal comfort based on ASHRAE database. <i>Energy and Buildings</i> , <b>2020</b> , 219, 110017	7	27
92	A new method to study human metabolic rate changes and thermal comfort in physical exercise by CO2 measurement in an airtight chamber. <i>Energy and Buildings</i> , <b>2018</b> , 177, 402-412	7	27
91	Numerical investigation on the coupled effects of building-tree arrangements on fine particulate matter (PM2.5) dispersion in housing blocks. <i>Sustainable Cities and Society</i> , <b>2017</b> , 34, 358-370	10.1	27
90	The 2020 China report of the Lancet Countdown on health and climate change. <i>Lancet Public Health</i> , <b>2021</b> , 6, e64-e81	22.4	27
89	Indoor environmental quality of green office buildings in China: Large-scale and long-term measurement. <i>Building and Environment</i> , <b>2019</b> , 150, 266-280	6.5	26

88	Integrated assessment method for building life cycle environmental and economic performance. <i>Building Simulation</i> , <b>2008</b> , 1, 169-177	3.9	24
87	Dimension analysis of subjective thermal comfort metrics based on ASHRAE Global Thermal Comfort Database using machine learning. <i>Journal of Building Engineering</i> , <b>2020</b> , 29, 101120	5.2	24
86	Building simulation as assistance in the conceptual design. <i>Building Simulation</i> , <b>2008</b> , 1, 46-52	3.9	23
85	Fast bidirectional building performance optimization at the early design stage. <i>Building Simulation</i> , <b>2018</b> , 11, 647-661	3.9	22
84	Investigation on the Indoor Environment Quality of health care facilities in China. <i>Building and Environment</i> , <b>2018</b> , 141, 273-287	6.5	22
83	Building energy performance diagnosis using energy bills and weather data. <i>Energy and Buildings</i> , <b>2018</b> , 172, 181-191	7	21
82	How to design comfortable open spaces for the elderly? Implications of their thermal perceptions in an urban park. <i>Science of the Total Environment</i> , <b>2021</b> , 768, 144985	10.2	20
81	Occupant satisfaction in Three-Star-certified office buildings based on comparative study using LEED and BREEAM. <i>Building and Environment</i> , <b>2018</b> , 132, 1-10	6.5	19
80	Review of thermal comfort infused with the latest big data and modeling progresses in public health. <i>Building and Environment</i> , <b>2019</b> , 164, 106336	6.5	18
79	Prediction of Wind Environment and Indoor/Outdoor Relationships for PM2.5 in Different Building Tree Grouping Patterns. <i>Atmosphere</i> , <b>2018</b> , 9, 39	2.7	17
78	Bridging energy performance gaps of green office buildings via more targeted operations management: A system dynamics approach. <i>Journal of Environmental Management</i> , <b>2019</b> , 238, 64-71	7.9	16
77	Optimal tree design for sunshine and ventilation in residential district using geometrical models and numerical simulation. <i>Building Simulation</i> , <b>2011</b> , 4, 351-363	3.9	16
76	Renewable energy utilization evaluation method in green buildings. <i>Renewable Energy</i> , <b>2008</b> , 33, 883-886.1		16
75	A study on the influences of immediate thermal history on current thermal sensation. <i>Energy and Buildings</i> , <b>2019</b> , 198, 364-376	7	15
74	Research on parametric design method for energy efficiency of green building in architectural scheme phase. <i>Frontiers of Architectural Research</i> , <b>2013</b> , 2, 11-22	2.3	15
73	Impact of intervention methods on COVID-19 transmission in Shenzhen. <i>Building and Environment</i> , <b>2020</b> , 180, 107106	6.5	14
72	Analysis of correlation between actual heating energy consumption and building physics, heating system, and room position using data mining approach. <i>Energy and Buildings</i> , <b>2018</b> , 166, 73-82	7	14
71	Research on a radiant heating terminal integrated with a thermoelectric unit and flat heat pipe. <i>Energy and Buildings</i> , <b>2018</b> , 172, 209-220	7	14

70	Experimental study on a novel flat-heat-pipe heating system integrated with phase change material and thermoelectric unit. <i>Energy</i> , <b>2019</b> , 189, 116181	7.9	14
69	Numerical Investigation on the Effect of Avenue Trees on PM2.5 Dispersion in Urban Street Canyons. <i>Atmosphere</i> , <b>2017</b> , 8, 129	2.7	14
68	A review of operational energy consumption calculation method for urban buildings. <i>Building Simulation</i> , <b>2020</b> , 13, 739-751	3.9	14
67	Correlation analysis of building plane and energy consumption of high-rise office building in cold zone of China. <i>Building Simulation</i> , <b>2015</b> , 8, 487-498	3.9	13
66	Towards a framework to evaluate the total performance of buildings. <i>Building Services Engineering Research and Technology</i> , <b>2018</b> , 39, 609-631	2.3	13
65	Numerical study of the influences of different patterns of the building and green space on micro-scale outdoor thermal comfort and indoor natural ventilation. <i>Building Simulation</i> , <b>2014</b> , 7, 525-536	2.9	13
64	Experimental investigation on the thermal performance of a novel radiant heating and cooling terminal integrated with a flat heat pipe. <i>Energy and Buildings</i> , <b>2020</b> , 208, 109646	7	13
63	CO2 emissions from urban buildings at the city scale: System dynamic projections and potential mitigation policies. <i>Applied Energy</i> , <b>2020</b> , 277, 115546	10.7	13
62	Modeling and predicting the occupancy in a China hub airport terminal using Wi-Fi data. <i>Energy and Buildings</i> , <b>2019</b> , 203, 109439	7	12
61	The Squeaky wheel: Machine learning for anomaly detection in subjective thermal comfort votes. <i>Building and Environment</i> , <b>2019</b> , 151, 219-227	6.5	12
60	The impact of semi-open settings on ventilation in idealized building arrays. <i>Urban Climate</i> , <b>2018</b> , 25, 196-217	6.8	12
59	Reliability analysis of an energy-based form optimization of office buildings under uncertainties in envelope and occupant parameters. <i>Energy and Buildings</i> , <b>2020</b> , 209, 109707	7	12
58	Comparison of thermal comfort between convective heating and radiant heating terminals in a winter thermal environment: A field and experimental study. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110239	7	11
57	An endpoint damage oriented model for life cycle environmental impact assessment of buildings in China. <i>Science Bulletin</i> , <b>2008</b> , 53, 3762-3769		11
56	Comparative study on indoor environmental quality of green office buildings with different levels of energy use intensity. <i>Building and Environment</i> , <b>2020</b> , 168, 106482	6.5	11
55	Investigation of thermal comfort and behavioral adjustments of older people in residential environments in Beijing. <i>Energy and Buildings</i> , <b>2020</b> , 217, 110001	7	10
54	A holistic approach to evaluate building performance gap of green office buildings: A case study in China. <i>Building and Environment</i> , <b>2020</b> , 175, 106819	6.5	9
53	Low-cost green building practice in China: Library of Shandong Transportation College. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 100-105		8

52	Measuring the administered dose of particles on the facial mucosa of a realistic human model. <i>Indoor Air</i> , <b>2020</b> , 30, 108-116	5.4	8
51	Evaluation on the applicability of thermoelectric air cooling systems for buildings with thermoelectric material optimization. <i>Energy</i> , <b>2021</b> , 221, 119723	7.9	7
50	Stone forest as a small-scale field model for the study of urban climate. <i>International Journal of Climatology</i> , <b>2018</b> , 38, 3723-3731	3.5	7
49	Low carbon building performance in the construction industry: a multi-method approach of system dynamics and building performance modelling. <i>Construction Management and Economics</i> , <b>2020</b> , 38, 856-876	3.7	6
48	A graph- and feature-based building space recognition algorithm for performance simulation in the early design stage. <i>Building Simulation</i> , <b>2018</b> , 11, 281-292	3.9	6
47	Investigation on the potential of improving daylight efficiency of office buildings by curved facade optimization. <i>Building Simulation</i> , <b>2020</b> , 13, 287-303	3.9	6
46	Development of a health data-driven model for a thermal comfort study. <i>Building and Environment</i> , <b>2020</b> , 177, 106874	6.5	6
45	Quantification of residential design parameters effects on the outdoor wind environment using orthogonal experimental design (OED) and numerical simulation. <i>Procedia Engineering</i> , <b>2017</b> , 205, 137-144		5
44	A preference-based multi-objective building performance optimization method for early design stage. <i>Building Simulation</i> , <b>2021</b> , 14, 477-494	3.9	5
43	Performance analysis of room air conditioners via questionnaire and integrated field test. <i>Applied Thermal Engineering</i> , <b>2021</b> , 196, 117243	5.8	5
42	Dehumidification-adjustable cooling of radiant cooling terminals based on a flat heat pipe. <i>Building and Environment</i> , <b>2021</b> , 194, 107716	6.5	4
41	MOOSAS A systematic solution for multiple objective building performance optimization in the early design stage. <i>Building and Environment</i> , <b>2021</b> , 200, 107929	6.5	4
40	Thermal preference prediction based on occupants adaptive behavior in indoor environments- A study of an air-conditioned multi-occupancy office in China. <i>Building and Environment</i> , <b>2021</b> , 206, 108355	6.5	4
39	Assessing the perception of overall indoor environmental quality: Model validation and interpretation. <i>Energy and Buildings</i> , <b>2022</b> , 259, 111870	7	3
38	Identifying buildings with rising electricity-consumption and those with high energy-saving potential for government's management by data mining approaches. <i>Energy for Sustainable Development</i> , <b>2022</b> , 66, 54-68	5.4	3
37	Non-visual effects of office light environment: Field evaluation, model comparison, and spectral analysis. <i>Building and Environment</i> , <b>2021</b> , 197, 107859	6.5	3
36	A Comparison of the Environmental Performance of Cooling and Heating among Different Household Types in China Hot Summer Cold Winter Zone. <i>Sustainability</i> , <b>2019</b> , 11, 5724	3.6	3
35	A CBR-based decision-making model for supporting the intelligent energy-efficient design of the exterior envelope of public and commercial buildings. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110625	7	3

34	Robustness of building energy optimization with uncertainties using deterministic and stochastic methods: Analysis of two forms. <i>Building and Environment</i> , <b>2021</b> , 205, 108185	6.5	3
33	Predictive models for daylight performance of general floorplans based on CNN and GAN: A proof-of-concept study. <i>Building and Environment</i> , <b>2021</b> , 206, 108346	6.5	3
32	Building energy-saving approach in early design stage. <i>Chinese Science Bulletin</i> , <b>2016</b> , 61, 113-121	2.9	2
31	The 2021 China report of the Lancet Countdown on health and climate change: seizing the window of opportunity. <i>Lancet Public Health</i> , <i>The</i> , <b>2021</b> , 6, e932-e947	22.4	2
30	Thermal adaptive behavior and thermal comfort for occupants in multi-person offices with air-conditioning systems. <i>Building and Environment</i> , <b>2022</b> , 207, 108432	6.5	2
29	A method for determining the weight of objective indoor environment and subjective response based on information theory. <i>Building and Environment</i> , <b>2022</b> , 207, 108426	6.5	2
28	Effectiveness of one-click feedback of building energy efficiency in supporting early-stage architecture design: An experimental study. <i>Building and Environment</i> , <b>2021</b> , 196, 107780	6.5	2
27	An efficient method of evaluating large scale urban residential skylight environment and an empirical study of Beijing main area. <i>Building Simulation</i> , <b>2021</b> , 14, 871-883	3.9	2
26	Intermittent heating performance of different terminals in hot summer and cold winter zone in China based on field test. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 102546	5.2	2
25	Optimized lighting energy consumption for non-visual effects: A case study in office spaces based on field test and simulation. <i>Building and Environment</i> , <b>2021</b> , 205, 108238	6.5	2
24	Investigations of indoor air quality for office buildings in different climate zones of China by subjective survey and field measurement. <i>Building and Environment</i> , <b>2022</b> , 214, 108899	6.5	2
23	Novel radiation-adjustable heating terminal based on flat heat pipe combined with air source heat pump. <i>Engineering</i> , <b>2022</b> ,	9.7	1
22	TA3 Numerical study of the evaluation indexes for outdoor pedestrian thermal comfort.. <i>Wind Engineers JAWE</i> , <b>2006</b> , 2006, 509-528	0	1
21	The effect of temperature and group perception feedbacks on thermal comfort. <i>Energy and Buildings</i> , <b>2022</b> , 254, 111603	7	1
20	Approach to Choose Proper Passive Design Strategies for Residential Buildings. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 635-643	0.2	1
19	The investigation of indoor air quality and ventilation of an airport terminal building in China. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 032051	0.4	1
18	Thermal performance investigation of a novel heating terminal integrated with flat heat pipe and heat transfer enhancement. <i>Energy</i> , <b>2021</b> , 236, 121411	7.9	1
17	Green finance support for development of green buildings in China: Effect, mechanism, and policy implications. <i>Energy Policy</i> , <b>2022</b> , 165, 112973	7.2	1



16	A review of the application of radiative sky cooling in buildings: Challenges and optimization. <i>Energy Conversion and Management</i> , <b>2022</b> , 265, 115768	10.6	1
15	Response to the commentary on <a href="#">A review of operating performance in green buildings: Energy use, indoor environmental quality and occupant satisfaction</a> by John H. Scofield. <i>Energy and Buildings</i> , <b>2019</b> , 194, 366-368	7	0
14	Experimental investigation on the improvement of cooling and dehumidification of a direct-expansion terminal integrated with flat heat pipe. <i>Energy and Buildings</i> , <b>2022</b> , 260, 111922	7	0
13	Interpreting the neural network model for HVAC system energy data mining. <i>Building and Environment</i> , <b>2021</b> , 209, 108449	6.5	0
12	Recognizing occupant presence status in residential buildings from environment sensing data by data mining approach. <i>Energy and Buildings</i> , <b>2021</b> , 252, 111432	7	0
11	Method for evaluating the dynamic thermal performance of heating terminals based on an analysis of heat quantity and grade. <i>Energy and Buildings</i> , <b>2021</b> , 252, 111391	7	0
10	Experimental investigation on indoor environment and energy performance of convective terminals. <i>Energy</i> , <b>2022</b> , 123929	7.9	0
9	Experimental study and theoretical discussion of dynamic outdoor thermal comfort in walking spaces: Effect of short-term thermal history. <i>Building and Environment</i> , <b>2022</b> , 216, 109039	6.5	0
8	A fast calculation tool for accessing the shading effect of surrounding buildings on window transmitted solar radiation energy. <i>Sustainable Cities and Society</i> , <b>2022</b> , 81, 103834	10.1	0
7	Aerosol Transmission of SARS-CoV-2 in Two Dormitories - Hubei and Shandong Provinces, China, 2020.. <i>China CDC Weekly</i> , <b>2022</b> , 4, 298-301	4	0
6	A sub-sequence clustering method for identifying daily indoor environmental patterns from massive time-series data. <i>Automation in Construction</i> , <b>2022</b> , 139, 104303	9.6	0
5	Green building research from design to operation in the past 20 years: A perspective. <i>Frontiers of Structural and Civil Engineering</i> , <b>2020</b> , 14, 1049-1055	2.5	
4	Green Building Development in China. <i>Strategies for Sustainability</i> , <b>2018</b> , 77-108	0.8	
3	Acoustic Environment of Large Terminal Airside Concourse in China. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 042087	0.4	
2	Analysis of the field tests efficiency of indoor environmental control and energy saving technology: the cases of Solar Decathlon China 2018. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 032050	0.4	
1	Research on indoor spaces and passenger satisfaction with terminal buildings in China. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 102873	5.2	