

Borong Lin

List of Publications by Year in descending order

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129
papers

5,009
citations

87888

38
h-index

106344

65
g-index

130
all docs

130
docs citations

130
times ranked

3432
citing authors

#	ARTICLE	IF	CITATIONS
1	Individual difference in thermal comfort: A literature review. <i>Building and Environment</i> , 2018, 138, 181-193.	6.9	377
2	The impact of thermal environment on occupant IEQ perception and productivity. <i>Building and Environment</i> , 2017, 121, 158-167.	6.9	237
3	A review of operating performance in green buildings: Energy use, indoor environmental quality and occupant satisfaction. <i>Energy and Buildings</i> , 2019, 183, 500-514.	6.7	196
4	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> , 2015, 73, 18-27.	8.9	173
5	Evaluating thermal comfort in mixed-mode buildings: A field study in a subtropical climate. <i>Building and Environment</i> , 2015, 88, 46-54.	6.9	142
6	The underlying linkage between personal control and thermal comfort: Psychological or physical effects?. <i>Energy and Buildings</i> , 2016, 111, 56-63.	6.7	130
7	The dynamics of thermal comfort expectations: The problem, challenge and implication. <i>Building and Environment</i> , 2016, 95, 322-329.	6.9	119
8	Numerical simulation studies of the different vegetation patterns's effects on outdoor pedestrian thermal comfort. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2008, 96, 1707-1718.	3.9	115
9	Evaluation and comparison of thermal comfort of convective and radiant heating terminals in office buildings. <i>Building and Environment</i> , 2016, 106, 91-102.	6.9	114
10	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> , 2017, 584-585, 189-206.	8.0	108
11	Sustainable housing and urban construction in China. <i>Energy and Buildings</i> , 2004, 36, 1287-1297.	6.7	106
12	The 2020 China report of the Lancet Countdown on health and climate change. <i>Lancet Public Health</i> , The, 2021, 6, e64-e81.	10.0	106
13	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> , 2015, 84, 80-88.	6.9	105
14	Annual performance of liquid desiccant based independent humidity control HVAC system. <i>Applied Thermal Engineering</i> , 2006, 26, 1198-1207.	6.0	95
15	Dynamic LCA framework for environmental impact assessment of buildings. <i>Energy and Buildings</i> , 2017, 149, 310-320.	6.7	93
16	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> , 2016, 101, 9-18.	6.9	92
17	Preparation and optimization of ultra-light and thermal insulative aerogel foam concrete. <i>Construction and Building Materials</i> , 2019, 205, 529-542.	7.2	89
18	A dynamic life cycle carbon emission assessment on green and non-green buildings in China. <i>Energy and Buildings</i> , 2017, 149, 272-281.	6.7	84

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19	An ANN-based fast building energy consumption prediction method for complex architectural form at the early design stage. <i>Building Simulation</i> , 2019, 12, 665-681.	5.6	74
20	Residential heating energy consumption modeling through a bottom-up approach for China's Hot Summer-Cold Winter climatic region. <i>Energy and Buildings</i> , 2015, 109, 65-74.	6.7	73
21	Combined cogeneration and liquid-desiccant system applied in a demonstration building. <i>Energy and Buildings</i> , 2004, 36, 945-953.	6.7	71
22	Measured energy use and indoor environment quality in green office buildings in China. <i>Energy and Buildings</i> , 2016, 129, 9-18.	6.7	69
23	Study on human skin temperature and thermal evaluation in step change conditions: From non-neutrality to neutrality. <i>Energy and Buildings</i> , 2017, 156, 29-39.	6.7	65
24	The uncertainty of subjective thermal comfort measurement. <i>Energy and Buildings</i> , 2018, 181, 38-49.	6.7	65
25	A model to compare convective and radiant heating systems for intermittent space heating. <i>Applied Energy</i> , 2018, 215, 211-226.	10.1	63
26	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> , 2021, 768, 144985.	8.0	63
27	A comparison of winter indoor thermal environment and thermal comfort between regions in Europe, North America, and Asia. <i>Building and Environment</i> , 2017, 117, 208-217.	6.9	61
28	Investigation of indoor environment quality of Chinese large-hub airport terminal buildings through longitudinal field measurement and subjective survey. <i>Building and Environment</i> , 2015, 94, 593-605.	6.9	59
29	Revisiting individual and group differences in thermal comfort based on ASHRAE database. <i>Energy and Buildings</i> , 2020, 219, 110017.	6.7	59
30	Modeling and measurement study on an intermittent heating system of a residence in Cambridgeshire. <i>Building and Environment</i> , 2015, 92, 380-386.	6.9	55
31	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> , 2018, 177, 402-412.	6.7	53
32	Impact of individual IEQ factors on passengers' overall satisfaction in Chinese airport terminals. <i>Building and Environment</i> , 2017, 112, 241-249.	6.9	46
33	Mapping potentials of low-grade industrial waste heat in Northern China. <i>Resources, Conservation and Recycling</i> , 2017, 125, 335-348.	10.8	44
34	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> , 2017, 34, 358-370.	10.4	44
35	Indoor environmental quality of green office buildings in China: Large-scale and long-term measurement. <i>Building and Environment</i> , 2019, 150, 266-280.	6.9	42
36	Fast bidirectional building performance optimization at the early design stage. <i>Building Simulation</i> , 2018, 11, 647-661.	5.6	41

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37	The 2021 China report of the Lancet Countdown on health and climate change: seizing the window of opportunity. <i>Lancet Public Health</i> , The, 2021, 6, e932-e947.	10.0	41
38	A review of operational energy consumption calculation method for urban buildings. <i>Building Simulation</i> , 2020, 13, 739-751.	5.6	40
39	Rational selection of heating temperature set points for China's hot summer and cold winter climatic region. <i>Building and Environment</i> , 2015, 93, 63-70.	6.9	39
40	Investigation on the Indoor Environment Quality of health care facilities in China. <i>Building and Environment</i> , 2018, 141, 273-287.	6.9	39
41	Dimension analysis of subjective thermal comfort metrics based on ASHRAE Global Thermal Comfort Database using machine learning. <i>Journal of Building Engineering</i> , 2020, 29, 101120.	3.4	39
42	Building energy performance diagnosis using energy bills and weather data. <i>Energy and Buildings</i> , 2018, 172, 181-191.	6.7	36
43	Review of thermal comfort infused with the latest big data and modeling progresses in public health. <i>Building and Environment</i> , 2019, 164, 106336.	6.9	32
44	Occupant satisfaction in Three-Star-certified office buildings based on comparative study using LEED and BREEAM. <i>Building and Environment</i> , 2018, 132, 1-10.	6.9	31
45	Investigation of thermal comfort and behavioral adjustments of older people in residential environments in Beijing. <i>Energy and Buildings</i> , 2020, 217, 110001.	6.7	31
46	The Squeaky wheel: Machine learning for anomaly detection in subjective thermal comfort votes. <i>Building and Environment</i> , 2019, 151, 219-227.	6.9	29
47	Bridging energy performance gaps of green office buildings via more targeted operations management: A system dynamics approach. <i>Journal of Environmental Management</i> , 2019, 238, 64-71.	7.8	29
48	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> , 2020, 224, 110239.	6.7	29
49	Building simulation as assistance in the conceptual design. <i>Building Simulation</i> , 2008, 1, 46-52.	5.6	28
50	Integrated assessment method for building life cycle environmental and economic performance. <i>Building Simulation</i> , 2008, 1, 169-177.	5.6	28
51	Numerical Investigation on the Effect of Avenue Trees on PM2.5 Dispersion in Urban Street Canyons. <i>Atmosphere</i> , 2017, 8, 129.	2.3	28
52	CO2 emissions from urban buildings at the city scale: System dynamic projections and potential mitigation policies. <i>Applied Energy</i> , 2020, 277, 115546.	10.1	28
53	A review of the application of radiative sky cooling in buildings: Challenges and optimization. <i>Energy Conversion and Management</i> , 2022, 265, 115768.	9.2	28
54	Experimental study and theoretical discussion of dynamic outdoor thermal comfort in walking spaces: Effect of short-term thermal history. <i>Building and Environment</i> , 2022, 216, 109039.	6.9	27

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55	Prediction of Wind Environment and Indoor/Outdoor Relationships for PM2.5 in Different Building“Tree Grouping Patterns. Atmosphere, 2018, 9, 39.	2.3	26
56	Comparative study on indoor environmental quality of green office buildings with different levels of energy use intensity. Building and Environment, 2020, 168, 106482.	6.9	26
57	Evaluation on the applicability of thermoelectric air cooling systems for buildings with thermoelectric material optimization. Energy, 2021, 221, 119723.	8.8	25
58	Investigations of indoor air quality for office buildings in different climate zones of China by subjective survey and field measurement. Building and Environment, 2022, 214, 108899.	6.9	24
59	Modeling and predicting the occupancy in a China hub airport terminal using Wi-Fi data. Energy and Buildings, 2019, 203, 109439.	6.7	23
60	Reliability analysis of an energy-based form optimization of office buildings under uncertainties in envelope and occupant parameters. Energy and Buildings, 2020, 209, 109707.	6.7	23
61	A study on the influences of immediate thermal history on current thermal sensation. Energy and Buildings, 2019, 198, 364-376.	6.7	22
62	Impact of intervention methods on COVID-19 transmission in Shenzhen. Building and Environment, 2020, 180, 107106.	6.9	22
63	MOOSAS “A systematic solution for multiple objective building performance optimization in the early design stage. Building and Environment, 2021, 200, 107929.	6.9	22
64	Optimal tree design for sunshine and ventilation in residential district using geometrical models and numerical simulation. Building Simulation, 2011, 4, 351-363.	5.6	21
65	Research on parametric design method for energy efficiency of green building in architectural scheme phase. Frontiers of Architectural Research, 2013, 2, 11-22.	2.8	21
66	Experimental study on a novel flat-heat-pipe heating system integrated with phase change material and thermoelectric unit. Energy, 2019, 189, 116181.	8.8	21
67	Predictive models for daylight performance of general floorplans based on CNN and GAN: A proof-of-concept study. Building and Environment, 2021, 206, 108346.	6.9	21
68	Green finance support for development of green buildings in China: Effect, mechanism, and policy implications. Energy Policy, 2022, 165, 112973.	8.8	21
69	Numerical study of the influences of different patterns of the building and green space on micro-scale outdoor thermal comfort and indoor natural ventilation. Building Simulation, 2014, 7, 525-536.	5.6	20
70	The impact of semi-open settings on ventilation in idealized building arrays. Urban Climate, 2018, 25, 196-217.	5.7	20
71	A holistic approach to evaluate building performance gap of green office buildings: A case study in China. Building and Environment, 2020, 175, 106819.	6.9	20
72	Renewable energy utilization evaluation method in green buildings. Renewable Energy, 2008, 33, 883-886.	8.9	19

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73	Analysis of correlation between actual heating energy consumption and building physics, heating system, and room position using data mining approach. Energy and Buildings, 2018, 166, 73-82.	6.7	18
74	Towards a framework to evaluate the "total" performance of buildings. Building Services Engineering Research and Technology, 2018, 39, 609-631.	1.8	18
75	Experimental investigation on the thermal performance of a novel radiant heating and cooling terminal integrated with a flat heat pipe. Energy and Buildings, 2020, 208, 109646.	6.7	18
76	A preference-based multi-objective building performance optimization method for early design stage. Building Simulation, 2021, 14, 477-494.	5.6	18
77	Thermal adaptive behavior and thermal comfort for occupants in multi-person offices with air-conditioning systems. Building and Environment, 2022, 207, 108432.	6.9	18
78	Correlation analysis of building plane and energy consumption of high-rise office building in cold zone of China. Building Simulation, 2015, 8, 487-498.	5.6	17
79	Research on a radiant heating terminal integrated with a thermoelectric unit and flat heat pipe. Energy and Buildings, 2018, 172, 209-220.	6.7	17
80	Performance analysis of room air conditioners via questionnaire and integrated field test. Applied Thermal Engineering, 2021, 196, 117243.	6.0	16
81	Thermal performance investigation of a novel heating terminal integrated with flat heat pipe and heat transfer enhancement. Energy, 2021, 236, 121411.	8.8	16
82	Thermal preference prediction based on occupants' adaptive behavior in indoor environments- A study of an air-conditioned multi-occupancy office in China. Building and Environment, 2021, 206, 108355.	6.9	15
83	Investigation on the potential of improving daylight efficiency of office buildings by curved facade optimization. Building Simulation, 2020, 13, 287-303.	5.6	14
84	A CBR-based decision-making model for supporting the intelligent energy-efficient design of the exterior envelope of public and commercial buildings. Energy and Buildings, 2021, 231, 110625.	6.7	14
85	Dehumidification-adjustable cooling of radiant cooling terminals based on a flat heat pipe. Building and Environment, 2021, 194, 107716.	6.9	14
86	Optimized lighting energy consumption for non-visual effects: A case study in office spaces based on field test and simulation. Building and Environment, 2021, 205, 108238.	6.9	14
87	An endpoint damage oriented model for life cycle environmental impact assessment of buildings in China. Science Bulletin, 2008, 53, 3762-3769.	1.7	13
88	Development of a health data-driven model for a thermal comfort study. Building and Environment, 2020, 177, 106874.	6.9	13
89	A graph- and feature-based building space recognition algorithm for performance simulation in the early design stage. Building Simulation, 2018, 11, 281-292.	5.6	12
90	Measuring the administered dose of particles on the facial mucosa of a realistic human model. Indoor Air, 2020, 30, 108-116.	4.3	12

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91	Robot-based mobile sensing system for high-resolution indoor temperature monitoring. Automation in Construction, 2022, 142, 104477.	9.8	12
92	Non-visual effects of office light environment: Field evaluation, model comparison, and spectral analysis. Building and Environment, 2021, 197, 107859.	6.9	11
93	Robustness of building energy optimization with uncertainties using deterministic and stochastic methods: Analysis of two forms. Building and Environment, 2021, 205, 108185.	6.9	11
94	Assessing the perception of overall indoor environmental quality: Model validation and interpretation. Energy and Buildings, 2022, 259, 111870.	6.7	11
95	An Intelligent IEQ Monitoring and Feedback System: Development and Applications. Engineering, 2022, 18, 218-231.	6.7	11
96	Stone forest as a small-scale field model for the study of urban climate. International Journal of Climatology, 2018, 38, 3723-3731.	3.5	10
97	A method for determining the weight of objective indoor environment and subjective response based on information theory. Building and Environment, 2022, 207, 108426.	6.9	10
98	A fast calculation tool for assessing the shading effect of surrounding buildings on window transmitted solar radiation energy. Sustainable Cities and Society, 2022, 81, 103834.	10.4	10
99	Low carbon building performance in the construction industry: a multi-method approach of system dynamics and building performance modelling. Construction Management and Economics, 2020, 38, 856-876.	3.0	9
100	Effectiveness of one-click feedback of building energy efficiency in supporting early-stage architecture design: An experimental study. Building and Environment, 2021, 196, 107780.	6.9	9
101	Identifying buildings with rising electricity-consumption and those with high energy-saving potential for government's management by data mining approaches. Energy for Sustainable Development, 2022, 66, 54-68.	4.5	9
102	Experimental investigation on the improvement of cooling and dehumidification of a direct-expansion terminal integrated with flat heat pipe. Energy and Buildings, 2022, 260, 111922.	6.7	9
103	A sub-sequence clustering method for identifying daily indoor environmental patterns from massive time-series data. Automation in Construction, 2022, 139, 104303.	9.8	9
104	Low-cost green building practice in China: Library of Shandong Transportation College. Frontiers of Energy and Power Engineering in China, 2010, 4, 100-105.	0.4	8
105	Interpreting the neural network model for HVAC system energy data mining. Building and Environment, 2022, 209, 108449.	6.9	8
106	Intermittent heating performance of different terminals in hot summer and cold winter zone in China based on field test. Journal of Building Engineering, 2021, 43, 102546.	3.4	7
107	Recognizing occupant presence status in residential buildings from environment sensing data by data mining approach. Energy and Buildings, 2021, 252, 111432.	6.7	7
108	Environmental monitoring and infection control of fever clinics in general hospitals during COVID-19 pandemic. Chinese Science Bulletin, 2021, 66, 475-485.	0.7	7

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109	Experimental investigation on indoor environment and energy performance of convective terminals. Energy, 2022, 251, 123929.	8.8	7
110	Quantification of residential design parameters's effects on the outdoor wind environment using orthogonal experimental design (OED) and numerical simulation. Procedia Engineering, 2017, 205, 137-144.	1.2	6
111	The effect of temperature and group perception feedbacks on thermal comfort. Energy and Buildings, 2022, 254, 111603.	6.7	6
112	Building energy-saving approach in early design stage. Chinese Science Bulletin, 2016, 61, 113-121.	0.7	5
113	Novel Radiation-Adjustable Heating Terminal Based on Flat Heat Pipe Combined with Air Source Heat Pump. Engineering, 2023, 20, 192-207.	6.7	5
114	A Comparison of the Environmental Performance of Cooling and Heating among Different Household Types in China's Hot Summer-Cold Winter Zone. Sustainability, 2019, 11, 5724.	3.2	4
115	Real-time monitoring and controlling strategies of indoor environment in the frontline hospitals during COVID-19 pandemic. Chinese Science Bulletin, 2021, 66, 424-432.	0.7	4
116	Response to the commentary on "A review of operating performance in green buildings: Energy use, indoor environmental quality and occupant satisfaction" by John H. Scofield. Energy and Buildings, 2019, 194, 366-368.	6.7	3
117	An efficient method of evaluating large scale urban residential skylight environment and an empirical study of Beijing main area. Building Simulation, 2021, 14, 871-883.	5.6	3
118	Method for evaluating the dynamic thermal performance of heating terminals based on an analysis of heat quantity and grade. Energy and Buildings, 2021, 252, 111391.	6.7	3
119	Aerosol Transmission of SARS-CoV-2 in Two Dormitories " Hubei and Shandong Provinces, China, 2020. China CDC Weekly, 2022, 4, 298-301.	2.3	2
120	The investigation of indoor air quality and ventilation of an airport terminal building in China. IOP Conference Series: Materials Science and Engineering, 2019, 609, 032051.	0.6	1
121	Green building research from design to operation in the past 20 years: A perspective. Frontiers of Structural and Civil Engineering, 2020, 14, 1049-1055.	2.9	1
122	Research on indoor spaces and passenger satisfaction with terminal buildings in China. Journal of Building Engineering, 2021, 43, 102873.	3.4	1
123	Approach to Choose Proper Passive Design Strategies for Residential Buildings. Lecture Notes in Electrical Engineering, 2014, , 635-643.	0.4	1
124	TA3 Numerical study of the evaluation indexes for outdoor pedestrian thermal comfort.. Wind Engineers JAWE, 2006, 2006, 509-528.	0.1	1
125	Simulation and experiment study for optimizing the control of the heating/cooling source system of a green building. , 2017, , .		0
126	Green Building Development in China. Strategies for Sustainability, 2018, , 77-108.	0.3	0

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127	Acoustic Environment of Large Terminal Airside Concourse in China. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042087.	0.6	0
128	Analysis of the field tests efficiency of indoor environmental control and energy saving technology: the cases of Solar Decathlon China 2018. IOP Conference Series: Materials Science and Engineering, 2019, 609, 032050.	0.6	0
129	From type to network: a review of knowledge representation methods in architecture intelligence design. , 2022, 1, .		0