

Zhiwei Lian

List of Publications by Citations

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107
papers

3,223
citations

34
h-index

53
g-index

112
ext. papers

4,035
ext. citations

5.2
avg, IF

5.9
L-index

#	Paper	IF	Citations
107	Quantitative measurement of productivity loss due to thermal discomfort. <i>Energy and Buildings</i> , 2011 , 43, 1057-1062	7	189
106	Evaluation of calculation methods of mean skin temperature for use in thermal comfort study. <i>Building and Environment</i> , 2011 , 46, 478-488	6.5	152
105	Heart rate variability at different thermal comfort levels. <i>European Journal of Applied Physiology</i> , 2008 , 103, 361-6	3.4	137
104	The effects of air temperature on office workers' well-being, workload and productivity-evaluated with subjective ratings. <i>Applied Ergonomics</i> , 2010 , 42, 29-36	4.2	133
103	Investigation of gender difference in thermal comfort for Chinese people. <i>European Journal of Applied Physiology</i> , 2008 , 102, 471-80	3.4	123
102	Experimental study on physiological responses and thermal comfort under various ambient temperatures. <i>Physiology and Behavior</i> , 2008 , 93, 310-21	3.5	104
101	Experimental study on thermal comfort of sleeping people at different air temperatures. <i>Building and Environment</i> , 2014 , 73, 24-31	6.5	98
100	Cooling-load prediction by the combination of rough set theory and an artificial neural-network based on data-fusion technique. <i>Applied Energy</i> , 2006 , 83, 1033-1046	10.7	98
99	Neurobehavioral approach for evaluation of office workers' productivity: The effects of room temperature. <i>Building and Environment</i> , 2009 , 44, 1578-1588	6.5	91
98	Application of statistical power analysis [How to determine the right sample size in human health, comfort and productivity research. <i>Building and Environment</i> , 2010 , 45, 1202-1213	6.5	91
97	Optimal operation of a large cooling system based on an empirical model. <i>Applied Thermal Engineering</i> , 2004 , 24, 2303-2321	5.8	86
96	Use of neurobehavioral tests to evaluate the effects of indoor environment quality on productivity. <i>Building and Environment</i> , 2009 , 44, 2208-2217	6.5	79
95	Energy consumption analysis on a dedicated outdoor air system with rotary desiccant wheel. <i>Energy</i> , 2007 , 32, 1749-1760	7.9	62
94	Hourly cooling load prediction by a combined forecasting model based on Analytic Hierarchy Process. <i>International Journal of Thermal Sciences</i> , 2004 , 43, 1107-1118	4.1	59
93	Effects of temperature steps on human health and thermal comfort. <i>Building and Environment</i> , 2015 , 94, 144-154	6.5	58
92	Influence of green spaces on environmental satisfaction and physiological status of urban residents. <i>Urban Forestry and Urban Greening</i> , 2013 , 12, 490-497	5.4	58
91	Thermal comfort models and their developments: A review. <i>Energy and Built Environment</i> , 2021 , 2, 21-336.3		51

90	Perceptual and physiological responses of elderly subjects to moderate temperatures. <i>Building and Environment</i> , 2019 , 156, 117-122	6.5	48
89	Evaluation program for the energy-saving of variable-air-volume systems. <i>Energy and Buildings</i> , 2007 , 39, 558-568	7	47
88	Ten questions concerning thermal environment and sleep quality. <i>Building and Environment</i> , 2016 , 99, 252-259	6.5	46
87	Evaluation on the performance of quilts based on young people's sleep quality and thermal comfort in winter. <i>Energy and Buildings</i> , 2019 , 183, 174-183	7	45
86	Performance investigation on the ultrasonic atomization liquid desiccant regeneration system. <i>Applied Energy</i> , 2016 , 171, 12-25	10.7	44
85	Pilot study on the application of bedside personalized ventilation to sleeping people. <i>Building and Environment</i> , 2013 , 67, 160-166	6.5	44
84	Potential indicators for the effect of temperature steps on human health and thermal comfort. <i>Energy and Buildings</i> , 2016 , 113, 87-98	7	43
83	Conception of combination of gas-engine-driven heat pump and water-loop heat pump system. <i>International Journal of Refrigeration</i> , 2005 , 28, 810-819	3.8	43
82	A comprehensive review of thermal comfort studies in urban open spaces. <i>Science of the Total Environment</i> , 2020 , 742, 140092	10.2	42
81	The effect of indoor plants on human comfort. <i>Indoor and Built Environment</i> , 2014 , 23, 709-723	1.8	42
80	Thermal perception and skin temperature in different transient thermal environments in summer. <i>Energy and Buildings</i> , 2016 , 128, 155-163	7	41
79	An individualized human thermoregulation model for Chinese adults. <i>Building and Environment</i> , 2013 , 70, 257-265	6.5	39
78	Kinetic analysis of photocatalytic oxidation of gas-phase formaldehyde over titanium dioxide. <i>Chemosphere</i> , 2005 , 60, 630-5	8.4	39
77	Physiological response to typical temperature step-changes in winter of China. <i>Energy and Buildings</i> , 2017 , 138, 687-694	7	37
76	Experimental study on a bedside personalized ventilation system for improving sleep comfort and quality. <i>Indoor and Built Environment</i> , 2014 , 23, 313-323	1.8	36
75	Investigation of Gender Differences in Sleeping Comfort at Different Environmental Temperatures. <i>Indoor and Built Environment</i> , 2012 , 21, 811-820	1.8	35
74	A two-part model for evaluation of thermal neutrality for sleeping people. <i>Building and Environment</i> , 2018 , 132, 319-326	6.5	34
73	Experimental study on mass transfer performances of the ultrasonic atomization liquid desiccant dehumidification system. <i>Energy and Buildings</i> , 2015 , 93, 126-136	7	33

72	Use of mean skin temperature in evaluation of individual thermal comfort for a person in a sleeping posture under steady thermal environment. <i>Indoor and Built Environment</i> , 2015 , 24, 489-499	1.8	32
71	Thermal effects on human performance in office environment measured by integrating task speed and accuracy. <i>Applied Ergonomics</i> , 2014 , 45, 490-5	4.2	32
70	Improvement of the ultrasonic atomization liquid desiccant dehumidification system. <i>Energy and Buildings</i> , 2014 , 85, 145-154	7	31
69	Human physiological responses to wooden indoor environment. <i>Physiology and Behavior</i> , 2017 , 174, 27-34	3.5	30
68	A method to evaluate building energy consumption based on energy use index of different functional sectors. <i>Sustainable Cities and Society</i> , 2020 , 53, 101893	10.1	29
67	Analysis on energy consumption of water-loop heat pump system in China. <i>Applied Thermal Engineering</i> , 2005 , 25, 73-85	5.8	28
66	Correlation between health discomforts and temperature steps in winter of China. <i>Building and Environment</i> , 2017 , 114, 387-396	6.5	25
65	Investigation of gender difference in human response to temperature step changes. <i>Physiology and Behavior</i> , 2015 , 151, 426-40	3.5	24
64	Effects of exposure to winter temperature step-changes on human subjective perceptions. <i>Building and Environment</i> , 2016 , 107, 226-234	6.5	23
63	Method for the determination of optimal work environment in office buildings considering energy consumption and human performance. <i>Energy and Buildings</i> , 2014 , 76, 278-283	7	23
62	The effect of turbulence intensity on local skin temperature and subjective responses to draft. <i>Energy and Buildings</i> , 2011 , 43, 2678-2683	7	23
61	Influence of air conditioners utilization on urban thermal environment. <i>Applied Thermal Engineering</i> , 2009 , 29, 670-675	5.8	22
60	Thermal analysis of cooling coils based on a dynamic model. <i>Applied Thermal Engineering</i> , 2004 , 24, 1037-1050	5.1	22
59	Experimental study on sleep quality affected by carbon dioxide concentration. <i>Indoor Air</i> , 2021 , 31, 440-453	3.1	22
58	A model for predicting thermal sensation of Chinese people. <i>Building and Environment</i> , 2014 , 82, 237-246	6.5	21
57	A human thermoregulation model for the Chinese elderly. <i>Journal of Thermal Biology</i> , 2017 , 70, 2-14	2.9	19
56	Work performance in relation to lighting environment in office buildings. <i>Indoor and Built Environment</i> , 2019 , 28, 1064-1082	1.8	18
55	Impact of Wooden Versus Nonwooden Interior Designs on Office Workers' Cognitive Performance. <i>Perceptual and Motor Skills</i> , 2020 , 127, 36-51	2.2	17

54	Associations of bedroom temperature and ventilation with sleep quality. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 1274-1284	1.8	16
53	Dynamic indoor comfort temperature settings based on the variation in clothing insulation and its energy-saving potential for an air-conditioning system. <i>Energy and Buildings</i> , 2020 , 220, 110086	7	15
52	Investigation variance in human psychological responses to wooden indoor environments. <i>Building and Environment</i> , 2016 , 109, 58-67	6.5	15
51	An Application of Support Vector Machines in Cooling Load Prediction 2009 ,		15
50	Effects of negative oxygen ions on sleep quality. <i>Procedia Engineering</i> , 2017 , 205, 2980-2986		14
49	Experimental Study of Factors That Affect Thermal Comfort in an Upward-Displacement Air-Conditioned Room. <i>HVAC and R Research</i> , 2002 , 8, 191-200		14
48	Predication of skin temperature and thermal comfort under two-way transient environments. <i>Journal of Thermal Biology</i> , 2017 , 70, 15-20	2.9	13
47	Thermal comfort and sleep quality under temperature, relative humidity and illuminance in sleep environment. <i>Journal of Building Engineering</i> , 2021 , 43, 102575	5.2	13
46	Concept of dehumidification perfectness and its potential applications. <i>Energy</i> , 2015 , 91, 176-191	7.9	12
45	Effects of Exposure to Carbon Dioxide and Human Bioeffluents on Cognitive Performance. <i>Procedia Engineering</i> , 2015 , 121, 138-142		10
44	Study on the Operational Economy of the Ultrasonic Atomization Liquid Desiccant Dehumidification System. <i>Procedia Engineering</i> , 2017 , 205, 2879-2886		10
43	An innovation wall model based on interlayer ventilation. <i>Energy Conversion and Management</i> , 2008 , 49, 1271-1282	10.6	10
42	Quantitative effect on work performance considering interactions among multiple indoor environmental factors. <i>Building and Environment</i> , 2020 , 185, 107286	6.5	10
41	Sensitivity and stability analysis on the performance of ultrasonic atomization liquid desiccant dehumidification system. <i>Energy</i> , 2016 , 112, 1169-1183	7.9	10
40	The effects of light illuminance and correlated color temperature on mood and creativity. <i>Building Simulation</i> , 2021 , 14, 463-475	3.9	9
39	Environmental factors affecting sleep quality in summer: a field study in Shanghai, China. <i>Journal of Thermal Biology</i> , 2021 , 99, 102977	2.9	9
38	Parametric study on the sleep thermal environment. <i>Building Simulation</i> , 1	3.9	8
37	Performance assessment of heat pumps using HFC125/HCs mixtures. <i>International Journal of Energy Research</i> , 2012 , 36, 1005-1014	4.5	7

36	Cooling Load Prediction Based on the Combination of Rough Set Theory and Support Vector Machine. <i>HVAC and R Research</i> , 2006 , 12, 337-352		7
35	Five hypotheses concerned with bedroom environment and sleep quality: A questionnaire survey in Shanghai city, China. <i>Building and Environment</i> , 2021 , 205, 108252	6.5	7
34	Effect of different temperatures on hospital admissions for cardiovascular and cerebrovascular diseases: A case study. <i>Indoor and Built Environment</i> , 2017 , 26, 69-77	1.8	6
33	Long-term investigation of moisture environment in underground civil air defence work. <i>Indoor and Built Environment</i> , 2017 , 26, 744-757	1.8	6
32	A study on the parameter ranges of the locally supplied air in a task ambient conditioning system with chest exposure. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 238-247	1.8	6
31	Experimental study on the performance of the internally-heated ultrasonic atomization liquid desiccant regeneration system. <i>Applied Thermal Engineering</i> , 2019 , 163, 114211	5.8	6
30	Energy-cost allocation based on the theory of frequency response. <i>Applied Energy</i> , 2004 , 79, 371-383	10.7	6
29	Method of determining acceptable air temperature thresholds in Chinese HVAC buildings based on a data-driven model. <i>Energy and Buildings</i> , 2021 , 241, 110920	7	6
28	The Bioclimatic Design Approach to Plateau Region Buildings: Case of the Lhasa. <i>Procedia Engineering</i> , 2015 , 121, 2044-2051		5
27	Numerical investigation on the effect of harmonic horizontal-axis rotation on laminar natural convection in an air-filled enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 152, 119533	4.9	4
26	Analysis on the performance sensitivity and stability of the ultrasonic atomization liquid desiccant regeneration system. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 307-323	1.8	4
25	A method for the determination of optimal indoor environmental parameters range considering work performance. <i>Journal of Building Engineering</i> , 2021 , 35, 101976	5.2	4
24	The effects of sound loudness on subjective feeling, sympathovagal balance and brain activity. <i>Indoor and Built Environment</i> , 2018 , 27, 1287-1300	1.8	3
23	Effects of the courtyard's geometry in dig pit underground dwellings on the room's daylighting performance. <i>Building Simulation</i> , 2019 , 12, 653-663	3.9	3
22	Effect of Quilt Materials on Sleep Quality and Thermal Comfort for Young People in East China. <i>Procedia Engineering</i> , 2017 , 205, 43-49		3
21	A Study on the Thermal Comfort under Non-uniform Thermal Environment. <i>Procedia Engineering</i> , 2017 , 205, 2531-2536		3
20	Comparison of thermal comfort between radiant and convective systems using field test data from the Chinese Thermal Comfort Database. <i>Building and Environment</i> , 2022 , 209, 108685	6.5	3
19	Gender differences in human psychological responses to wooden indoor environment. <i>European Journal of Wood and Wood Products</i> , 2021 , 79, 217-226	2.1	3

18	Cognitive performance was reduced by higher air temperature even when thermal comfort was maintained over the 24-28°C range. <i>Indoor Air</i> , 2021 ,	5.4	3
17	Feasibility study on applying the mist-spraying cooling to improve the capacity of ultra-large container ships for loading reefers. <i>Ocean Engineering</i> , 2018 , 163, 377-390	3.9	2
16	Simulation on Regeneration Performance for the Ultrasonic Atomization Liquid Desiccant System. <i>Procedia Engineering</i> , 2017 , 205, 2925-2932		2
15	Differences in environmental perception of gender and sleep quality in self-regulating sleep thermal environment. <i>Indoor and Built Environment</i> , 2020 , 1420326X2096181	1.8	2
14	Multivariate analysis of subjective evaluation of indoor lighting environment. <i>Frontiers of Architectural Research</i> , 2021 , 10, 614-624	2.3	2
13	Sleep and Indoor Air Quality 2021 , 1-16		2
12	Investigation of the elderly's response to winter temperature steps in severe cold area of China. <i>Procedia Engineering</i> , 2017 , 205, 309-313		1
11	Analysis on the Significance of Effects from Operational Conditions on the Performances of Ultrasonic Atomization Dehumidifier with Liquid Desiccant. <i>Procedia Engineering</i> , 2015 , 121, 89-94		1
10	Radiant heat gain from indoor heat sources. <i>Heat and Mass Transfer</i> , 2006 , 42, 795-801	2.2	1
9	Presentation and evaluation of a new type of air supply system in a passenger carriage in China. <i>Applied Thermal Engineering</i> , 2004 , 24, 703-715	5.8	1
8	Interpretation of standard effective temperature (SET) and explorations on its modification and development. <i>Building and Environment</i> , 2022 , 210, 108714	6.5	1
7	Objective sleep assessments for healthy people in environmental research: A literature review. <i>Indoor Air</i> , 2022 , 32,	5.4	1
6	Comparing the effects of sun and wind on outdoor thermal comfort: A case study based on longitudinal subject tests in cold climate region.. <i>Science of the Total Environment</i> , 2022 , 154009	10.2	0
5	Application potential of skin temperature for sleep-wake classification. <i>Energy and Buildings</i> , 2022 , 266, 112137	7	0
4	Parametric regression model for lighting calibration. <i>Indoor and Built Environment</i> , 2016 , 25, 407-423	1.8	
3	Study on the Optimal Cooling Power for the Internally Cooled Ultrasonic Atomization Dehumidifier with Liquid Desiccant. <i>Environmental Science and Engineering</i> , 2020 , 923-932	0.2	
2	Comprehensive Effects of Temperature, Relative Humidity, and Illumination on Sleep Quality. <i>Environmental Science and Engineering</i> , 2020 , 1295-1303	0.2	
1	Evaluation of the feasibility of using skin temperature to predict overall thermal sensation in non-uniform thermal environments. <i>Journal of Thermal Biology</i> , 2022 , 103254	2.9	

