

Zhe Wang

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.

48
papers

1,583
citations

22
h-index

39
g-index

49
ext. papers

2,260
ext. citations

7.3
avg, IF

5.78
L-index

#	Paper	IF	Citations
48	Individual difference in thermal comfort: A literature review. <i>Building and Environment</i> , 2018 , 138, 181-193	10.5	220
47	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	7	112
46	Building thermal load prediction through shallow machine learning and deep learning. <i>Applied Energy</i> , 2020 , 263, 114683	10.7	89
45	State-of-the-art on research and applications of machine learning in the building life cycle. <i>Energy and Buildings</i> , 2020 , 212, 109831	7	82
44	Human metabolic rate and thermal comfort in buildings: The problem and challenge. <i>Building and Environment</i> , 2018 , 131, 44-52	6.5	82
43	Evaluation and comparison of thermal comfort of convective and radiant heating terminals in office buildings. <i>Building and Environment</i> , 2016 , 106, 91-102	6.5	80
42	Reinforcement learning for building controls: The opportunities and challenges. <i>Applied Energy</i> , 2020 , 269, 115036	10.7	78
41	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	6.5	66
40	Thermal comfort evaluated for combinations of energy-efficient personal heating and cooling devices. <i>Building and Environment</i> , 2018 , 143, 206-216	6.5	59
39	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	7	58
38	Indoor climate experience, migration, and thermal comfort expectation in buildings. <i>Building and Environment</i> , 2018 , 141, 262-272	6.5	55
37	Data fusion in predicting internal heat gains for office buildings through a deep learning approach. <i>Applied Energy</i> , 2019 , 240, 386-398	10.7	50
36	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	6.5	47
35	The uncertainty of subjective thermal comfort measurement. <i>Energy and Buildings</i> , 2018 , 181, 38-49	7	39
34	A model to compare convective and radiant heating systems for intermittent space heating. <i>Applied Energy</i> , 2018 , 215, 211-226	10.7	37
33	Modeling and measurement study on an intermittent heating system of a residence in Cambridgeshire. <i>Building and Environment</i> , 2015 , 92, 380-386	6.5	36
32	Rational selection of heating temperature set points for China's hot summer Cold winter climatic region. <i>Building and Environment</i> , 2015 , 93, 63-70	6.5	32

31	Revisiting individual and group differences in thermal comfort based on ASHRAE database. <i>Energy and Buildings</i> , 2020 , 219, 110017	7	27
30	Predicting older people's thermal sensation in building environment through a machine learning approach: Modelling, interpretation, and application. <i>Building and Environment</i> , 2019 , 161, 106231	6.5	26
29	Inferring occupant counts from Wi-Fi data in buildings through machine learning. <i>Building and Environment</i> , 2019 , 158, 281-294	6.5	24
28	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	5.2	24
27	Investigation on the Indoor Environment Quality of health care facilities in China. <i>Building and Environment</i> , 2018 , 141, 273-287	6.5	22
26	High-density thermal sensitivity maps of the human body. <i>Building and Environment</i> , 2020 , 167, 106435	6.5	20
25	Review of thermal comfort infused with the latest big data and modeling progresses in public health. <i>Building and Environment</i> , 2019 , 164, 106336	6.5	18
24	Predicting plug loads with occupant count data through a deep learning approach. <i>Energy</i> , 2019 , 181, 29-42	7.9	18
23	Buildings.Occupants: a Modelica package for modelling occupant behaviour in buildings. <i>Journal of Building Performance Simulation</i> , 2019 , 12, 433-444	2.8	18
22	Learning occupants' indoor comfort temperature through a Bayesian inference approach for office buildings in United States. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109593	16.2	16
21	Generating realistic building electrical load profiles through the Generative Adversarial Network (GAN). <i>Energy and Buildings</i> , 2020 , 224, 110299	7	16
20	The time-scale of thermal comfort adaptation in heated and unheated buildings. <i>Building and Environment</i> , 2019 , 151, 175-186	6.5	15
19	Artificial Intelligence for Efficient Thermal Comfort Systems: Requirements, Current Applications and Future Directions. <i>Frontiers in Built Environment</i> , 2020 , 6,	2.2	14
18	Linking human-building interactions in shared offices with personality traits. <i>Building and Environment</i> , 2020 , 170, 106602	6.5	14
17	Predicting city-scale daily electricity consumption using data-driven models. <i>Advances in Applied Energy</i> , 2021 , 2, 100025		14
16	Key issues and novel optimization approaches of industrial waste heat recovery in district heating systems. <i>Energy</i> , 2019 , 188, 116005	7.9	13
15	The Squeaky wheel: Machine learning for anomaly detection in subjective thermal comfort votes. <i>Building and Environment</i> , 2019 , 151, 219-227	6.5	12
14	Characterizing patterns and variability of building electric load profiles in time and frequency domains. <i>Applied Energy</i> , 2021 , 291, 116721	10.7	8

13	Predicted percentage dissatisfied with vertical temperature gradient. <i>Energy and Buildings</i> , 2020 , 220, 110085	7	7
12	Development of a health data-driven model for a thermal comfort study. <i>Building and Environment</i> , 2020 , 177, 106874	6.5	6
11	AlphaBuilding ResCommunity: A multi-agent virtual testbed for community-level load coordination. <i>Advances in Applied Energy</i> , 2021 , 4, 100061		6
10	Generation and representation of synthetic smart meter data. <i>Building Simulation</i> , 2020 , 13, 1205-1220	3.9	5
9	Controlling distributed energy resources via deep reinforcement learning for load flexibility and energy efficiency. <i>Applied Energy</i> , 2021 , 304, 117733	10.7	4
8	A synthetic building operation dataset. <i>Scientific Data</i> , 2021 , 8, 213	8.2	3
7	A three-year dataset supporting research on building energy management and occupancy analytics.. <i>Scientific Data</i> , 2022 , 9, 156	8.2	3
6	Field demonstration and implementation analysis of model predictive control in an office HVAC system. <i>Applied Energy</i> , 2022 , 318, 119104	10.7	3
5	2020 ,		2
4	Informing the planning of rotating power outages in heat waves through data analytics of connected smart thermostats for residential buildings. <i>Environmental Research Letters</i> , 2021 , 16, 074003	6.2	1
3	Occupants' satisfaction with LEED- and non-LEED-certified apartments using social media data. <i>Building and Environment</i> , 2021 , 206, 108288	6.5	1
2	Interpreting the neural network model for HVAC system energy data mining. <i>Building and Environment</i> , 2021 , 209, 108449	6.5	0
1	Intersecting heuristic adaptive strategies, building design and energy saving intentions when facing discomfort environment: A cross-country analysis. <i>Building and Environment</i> , 2021 , 204, 108129	6.5	0