

Da Yan

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.

132
papers

4,665
citations

37
h-index

66
g-index

140
ext. papers

5,952
ext. citations

5.8
avg, IF

6.36
L-index

#	Paper	IF	Citations
132	Occupant behavior modeling for building performance simulation: Current state and future challenges. <i>Energy and Buildings</i> , 2015 , 107, 264-278	7	477
131	Advances in research and applications of energy-related occupant behavior in buildings. <i>Energy and Buildings</i> , 2016 , 116, 694-702	7	289
130	Ten questions concerning occupant behavior in buildings: The big picture. <i>Building and Environment</i> , 2017 , 114, 518-530	6.5	254
129	IEA EBC Annex 66: Definition and simulation of occupant behavior in buildings. <i>Energy and Buildings</i> , 2017 , 156, 258-270	7	206
128	DeST [An integrated building simulation toolkit Part I: Fundamentals. <i>Building Simulation</i> , 2008 , 1, 95-110], 9	3.9	183
127	A review of uncertainty analysis in building energy assessment. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 93, 285-301	16.2	183
126	Simulation of occupancy in buildings. <i>Energy and Buildings</i> , 2015 , 87, 348-359	7	163
125	A survey on energy consumption and energy usage behavior of households and residential building in urban China. <i>Energy and Buildings</i> , 2017 , 148, 366-378	7	157
124	A novel approach for building occupancy simulation. <i>Building Simulation</i> , 2011 , 4, 149-167	3.9	156
123	An occupant behavior modeling tool for co-simulation. <i>Energy and Buildings</i> , 2016 , 117, 272-281	7	108
122	Air-conditioning usage conditional probability model for residential buildings. <i>Building and Environment</i> , 2014 , 81, 172-182	6.5	105
121	Stochastic modeling of overtime occupancy and its application in building energy simulation and calibration. <i>Building and Environment</i> , 2014 , 79, 1-12	6.5	88
120	Modeling occupancy and behavior for better building design and operation [A critical review. <i>Building Simulation</i> , 2018 , 11, 899-921	3.9	84
119	An insight into actual energy use and its drivers in high-performance buildings. <i>Applied Energy</i> , 2014 , 131, 394-410	10.7	83
118	Data analysis and stochastic modeling of lighting energy use in large office buildings in China. <i>Energy and Buildings</i> , 2015 , 86, 275-287	7	74
117	Comparative study of the cooling energy performance of variable refrigerant flow systems and variable air volume systems in office buildings. <i>Applied Energy</i> , 2016 , 183, 725-736	10.7	74
116	Temporal and spatial characteristics of the urban heat island in Beijing and the impact on building design and energy performance. <i>Energy</i> , 2017 , 130, 286-297	7.9	71

115	Quantitative description and simulation of human behavior in residential buildings. <i>Building Simulation</i> , 2012 , 5, 85-94	3.9	68
114	Urban residential heating in hot summer and cold winter zones of China—Status, modeling, and scenarios to 2030. <i>Energy Policy</i> , 2016 , 92, 158-170	7.2	63
113	Modelling of energy consumption and carbon emission from the building construction sector in China, a process-based LCA approach. <i>Energy Policy</i> , 2019 , 134, 110949	7.2	62
112	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. <i>Building and Environment</i> , 2020 , 178, 106738	6.5	62
111	A preliminary research on the derivation of typical occupant behavior based on large-scale questionnaire surveys. <i>Energy and Buildings</i> , 2016 , 117, 332-340	7	55
110	Data mining of space heating system performance in affordable housing. <i>Building and Environment</i> , 2015 , 89, 1-13	6.5	54
109	A novel stochastic modeling method to simulate cooling loads in residential districts. <i>Applied Energy</i> , 2017 , 206, 134-149	10.7	54
108	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. <i>Building Simulation</i> , 2021 , 14, 3-24	3.9	53
107	A review of reinforcement learning methodologies for controlling occupant comfort in buildings. <i>Sustainable Cities and Society</i> , 2019 , 51, 101748	10.1	51
106	A systematic review of occupant behavior in building energy policy. <i>Building and Environment</i> , 2020 , 175, 106807	6.5	50
105	Non-invasive (non-contact) measurements of human thermal physiology signals and thermal comfort/discomfort poses -A review. <i>Energy and Buildings</i> , 2020 , 224, 110261	7	50
104	A generalized probabilistic formula relating occupant behavior to environmental conditions. <i>Building and Environment</i> , 2016 , 95, 53-62	6.5	50
103	Comparison of typical year and multiyear building simulations using a 55-year actual weather data set from China. <i>Applied Energy</i> , 2017 , 195, 890-904	10.7	49
102	Investigation and analyses of residential heating in the HSCW climate zone of China: Status quo and key features. <i>Building and Environment</i> , 2015 , 94, 532-542	6.5	47
101	A detailed loads comparison of three building energy modeling programs: EnergyPlus, DeST and DOE-2.1E. <i>Building Simulation</i> , 2013 , 6, 323-335	3.9	47
100	Clustering and statistical analyses of air-conditioning intensity and use patterns in residential buildings. <i>Energy and Buildings</i> , 2018 , 174, 214-227	7	44
99	An international review of occupant-related aspects of building energy codes and standards. <i>Building and Environment</i> , 2020 , 179, 106906	6.5	38
98	Modelling and applications of annual energy-using simulation module of separated heat pipe heat exchanger. <i>Energy and Buildings</i> , 2013 , 57, 26-33	7	37

97	Influence of household air-conditioning use modes on the energy performance of residential district cooling systems. <i>Building Simulation</i> , 2016 , 9, 429-441	3.9	37
96	Modelling building energy consumption in China under different future scenarios. <i>Energy</i> , 2021 , 214, 119063	7.9	37
95	A thorough assessment of China's standard for energy consumption of buildings. <i>Energy and Buildings</i> , 2017 , 143, 114-128	7	33
94	Building energy use in China: Ceiling and scenario. <i>Energy and Buildings</i> , 2015 , 102, 307-316	7	33
93	Energy and behaviour at home: A review of intervention methods and practices. <i>Energy Research and Social Science</i> , 2019 , 57, 101238	7.7	33
92	Cluster analysis for occupant-behavior based electricity load patterns in buildings: A case study in Shanghai residences. <i>Building Simulation</i> , 2017 , 10, 889-898	3.9	28
91	Building categorization revisited: A clustering-based approach to using smart meter data for building energy benchmarking. <i>Applied Energy</i> , 2020 , 269, 114920	10.7	28
90	Updates to the China Design Standard for Energy Efficiency in public buildings. <i>Energy Policy</i> , 2015 , 87, 187-198	7.2	27
89	Renovation strategies for the Italian public housing stock: Applying building energy simulation and occupant behaviour modelling to support decision-making process. <i>Energy and Buildings</i> , 2018 , 167, 269-280	7.8	25
88	Comparison of HVAC system modeling in EnergyPlus, DeST and DOE-2.1E. <i>Building Simulation</i> , 2014 , 7, 21-33	3.9	24
87	Research on a dynamic simulation method of atrium thermal environment based on neural network. <i>Building and Environment</i> , 2012 , 50, 214-220	6.5	22
86	Investigation and analysis of Chinese residential building occupancy with large-scale questionnaire surveys. <i>Energy and Buildings</i> , 2019 , 193, 289-304	7	21
85	Survey and performance analysis of centralized domestic hot water system in China. <i>Energy and Buildings</i> , 2016 , 133, 321-334	7	21
84	Modelling urban-scale occupant behaviour, mobility, and energy in buildings: A survey. <i>Building and Environment</i> , 2020 , 183, 106964	6.5	20
83	Relative importance of factors influencing building energy in urban environment. <i>Energy</i> , 2016 , 111, 237-250	7.9	20
82	Using bottom-up model to analyze cooling energy consumption in China's urban residential building. <i>Energy and Buildings</i> , 2019 , 202, 109352	7	20
81	Occupancy data at different spatial resolutions: Building energy performance and model calibration. <i>Applied Energy</i> , 2021 , 286, 116492	10.7	20
80	Modeling Individual's Light Switching Behavior to Understand Lighting Energy Use of Office Building. <i>Energy Procedia</i> , 2016 , 88, 781-787	2.3	20

79	Energy poverty and thermal comfort in northern urban China: A household-scale typology of infrastructural inequalities. <i>Energy and Buildings</i> , 2018 , 177, 363-374	7	19
78	Comparative study of air-conditioning energy use of four office buildings in China and USA. <i>Energy and Buildings</i> , 2018 , 169, 344-352	7	18
77	Exploring the factors and motivations influencing heating behavioral patterns and future energy use intentions in the hot summer and cold winter climate zone of China. <i>Energy and Buildings</i> , 2017 , 153, 99-110	7	17
76	A review on buildings energy information: Trends, end-uses, fuels and drivers. <i>Energy Reports</i> , 2022 , 8, 626-637	4.6	16
75	A data-driven model predictive control for lighting system based on historical occupancy in an office building: Methodology development. <i>Building Simulation</i> , 2021 , 14, 219-235	3.9	16
74	Lighting energy consumption in ultra-low energy buildings: Using a simulation and measurement methodology to model occupant behavior and lighting controls. <i>Building Simulation</i> , 2017 , 10, 799-810	3.9	15
73	On the simulation repetition and temporal discretization of stochastic occupant behaviour models in building performance simulation. <i>Journal of Building Performance Simulation</i> , 2017 , 10, 612-624	2.8	15
72	A novel approach for selecting typical hot-year (THY) weather data. <i>Applied Energy</i> , 2019 , 242, 1634-1648	0.7	14
71	Household appliance recognition through a Bayes classification model. <i>Sustainable Cities and Society</i> , 2019 , 46, 101393	10.1	14
70	Design and operation optimization of multi-chiller plants based on energy performance simulation. <i>Energy and Buildings</i> , 2020 , 222, 110100	7	14
69	An action-based Markov chain modeling approach for predicting the window operating behavior in office spaces. <i>Building Simulation</i> , 2021 , 14, 301-315	3.9	14
68	Spatial distribution of internal heat gains: A probabilistic representation and evaluation of its influence on cooling equipment sizing in large office buildings. <i>Energy and Buildings</i> , 2017 , 139, 407-416	7	13
67	An integrated modeling tool for simultaneous analysis of thermal performance and indoor air quality in buildings. <i>Building and Environment</i> , 2008 , 43, 287-293	6.5	13
66	Global comparison of building energy use data within the context of climate change. <i>Energy and Buildings</i> , 2020 , 226, 110362	7	13
65	A novel mobility-based approach to derive urban-scale building occupant profiles and analyze impacts on building energy consumption. <i>Applied Energy</i> , 2020 , 278, 115656	10.7	13
64	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. <i>Applied Energy</i> , 2021 , 293, 116856	10.7	12
63	Building occupancy forecasting: A systematical and critical review. <i>Energy and Buildings</i> , 2021 , 251, 111345	4.5	12
62	Evaluation of thermal imbalance of ground source heat pump systems in residential buildings in China. <i>Building Simulation</i> , 2020 , 13, 585-598	3.9	11

61	The evaluation of stochastic occupant behavior models from an application-oriented perspective: Using the lighting behavior model as a case study. <i>Energy and Buildings</i> , 2018 , 176, 151-162	7	11
60	Development of an adaptation table to enhance the accuracy of the predicted mean vote model. <i>Building and Environment</i> , 2020 , 168, 106504	6.5	11
59	Predicting open-plan office window operating behavior using the random forest algorithm. <i>Journal of Building Engineering</i> , 2021 , 42, 102514	5.2	11
58	Power consumption and energy efficiency of VRF system based on large scale monitoring virtual sensors. <i>Building Simulation</i> , 2020 , 13, 1145-1156	3.9	10
57	Influence of asynchronous demand behavior on overcooling in multiple zone AC systems. <i>Building and Environment</i> , 2016 , 110, 65-75	6.5	9
56	The typical hot year and typical cold year for modeling extreme events impacts on indoor environment: A generation method and case study. <i>Building Simulation</i> , 2020 , 13, 543-558	3.9	8
55	Building occupant transient agent-based model [Movement module]. <i>Applied Energy</i> , 2020 , 261, 114417	10.7	8
54	Investigation and modelling of the centralized solar domestic hot water system in residential buildings. <i>Building Simulation</i> , 2017 , 10, 87-96	3.9	8
53	Review and estimation of global halocarbon emissions in the buildings sector. <i>Energy and Buildings</i> , 2020 , 225, 110311	7	8
52	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Temperature control using phase-change chair. <i>Sustainable Cities and Society</i> , 2018 , 42, 38-51	10.1	8
51	Typical weekly occupancy profiles in non-residential buildings based on mobile positioning data. <i>Energy and Buildings</i> , 2021 , 250, 111264	7	8
50	Coupled cooling method for multiple latent heat thermal storage devices combined with pre-cooling of envelope: Model development and operation optimization. <i>Energy</i> , 2018 , 159, 508-524	7.9	7
49	Occupant migration monitoring in residential buildings with the use of a depth registration camera. <i>Procedia Engineering</i> , 2017 , 205, 1193-1200		7
48	A Technical Review of Modeling Techniques for Urban Solar Mobility: Solar to Buildings, Vehicles, and Storage (S2BVS). <i>Sustainability</i> , 2020 , 12, 7035	3.6	7
47	An improved method for direct incident solar radiation calculation from hourly solar insolation data in building energy simulation. <i>Energy and Buildings</i> , 2020 , 227, 110425	7	7
46	Exploring cooling pattern of low-income households in urban China based on a large-scale questionnaire survey: A case study in Beijing. <i>Energy and Buildings</i> , 2021 , 236, 110783	7	7
45	Building Blocks Energy Estimation (BBEE): A method for building energy estimation on district level. <i>Energy and Buildings</i> , 2019 , 185, 137-147	7	7
44	Comparison of different machine learning algorithms for predicting air-conditioning operating behavior in open-plan offices. <i>Energy and Buildings</i> , 2021 , 251, 111347	7	7

43	Appliance use behavior modelling and evaluation in residential buildings: A case study of television energy use. <i>Building Simulation</i> , 2020 , 13, 787-801	3.9	6
42	Modeling occupant behavior influence on the energy efficiency of solar domestic hot water systems. <i>Applied Energy</i> , 2022 , 309, 118503	10.7	6
41	Analysis of district cooling system with chilled water thermal storage in hot summer and cold winter area of China. <i>Building Simulation</i> , 2020 , 13, 349-361	3.9	6
40	Clustering-based probability distribution model for monthly residential building electricity consumption analysis. <i>Building Simulation</i> , 2021 , 14, 149-164	3.9	6
39	Comparative analysis of window operating behavior in three different open-plan offices in Nanjing. <i>Energy and Built Environment</i> , 2021 , 2, 175-187	6.3	6
38	Scientometric mapping of smart building research: Towards a framework of human-cyber-physical system (HCPS). <i>Automation in Construction</i> , 2021 , 129, 103776	9.6	6
37	Comparative research on different air conditioning systems for residential buildings. <i>Frontiers of Architectural Research</i> , 2017 , 6, 42-52	2.3	5
36	Exploring key factors impacting cooling usage patterns of Chinese urban household based on a large-scale questionnaire survey. <i>Energy and Buildings</i> , 2020 , 214, 109885	7	4
35	Development of Prototype Building Model in Beijing Based on Actual Energy Consumption. <i>Environmental Science and Engineering</i> , 2020 , 1187-1196	0.2	4
34	Vertical meteorological patterns and their impact on the energy demand of tall buildings. <i>Energy and Buildings</i> , 2021 , 232, 110624	7	4
33	Influence of occupant behaviour on oversizing issue of heat pumps for residential district in Hot Summer and Cold Winter zone of China. <i>Procedia Engineering</i> , 2017 , 205, 2434-2441		3
32	Application of Lorenz Curve and Gini Index in the Analysis of Load Feature in HVAC Systems. <i>Procedia Engineering</i> , 2015 , 121, 11-18		3
31	Co-simulation of dynamic underground heat transfer with building energy modeling based on equivalent slab method. <i>Energy and Buildings</i> , 2022 , 256, 111728	7	3
30	Comparison of Building Energy Modeling Programs: Building Loads		3
29	Agent Based Modelling of a Local Energy Market: A Study of the Economic Interactions between Autonomous PV Owners within a Micro-Grid. <i>Buildings</i> , 2021 , 11, 160	3.2	3
28	Operation and performance of VRF systems: Mining a large-scale dataset. <i>Energy and Buildings</i> , 2021 , 230, 110519	7	3
27	Systematically incorporating spectrum-selective radiative cooling into building performance simulation: Numerical integration method and experimental validation. <i>Applied Energy</i> , 2022 , 312, 118733	10.7	3
26	Demand response capability assessment for buildings based on simulation and model simplification 2015 ,		2

25	District household electricity consumption pattern analysis based on auto-encoder algorithm. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 072028	0.4	2
24	Forecasting building occupancy: A temporal-sequential analysis and machine learning integrated approach. <i>Energy and Buildings</i> , 2021 , 252, 111362	7	2
23	Generation and verification of vertical meteorological data for building energy simulation from a 325-meter Beijing meteorological tower. <i>Energy and Buildings</i> , 2022 , 262, 111992	7	2
22	Assessing the potential of decarbonizing China's building construction by 2060 and synergy with industry sector. <i>Journal of Cleaner Production</i> , 2022 , 359, 132086	10.3	2
21	Influence of load feature on the water distribution system in a centralized air-conditioning system. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 277-284	1.8	1
20	Analytical Methodology of Monthly Residential Building Electricity Consumption Based on Data Mining Models. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 238, 012050	0.3	1
19	Field test and modeling analysis on unbalance of heat extraction and rejection of GSHP systems with different AC terminal units. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 238, 012047	0.3	1
18	Extreme events, energy security and equality through micro- and macro-levels: Concepts, challenges and methods. <i>Energy Research and Social Science</i> , 2022 , 85, 102401	7.7	1
17	Real Time Measurement of Dynamic Metabolic Factor (D-MET). <i>Springer Proceedings in Energy</i> , 2019 , 677-688	0.2	1
16	Investigation and Modelling of the Centralized Solar Domestic Hot Water System in Residential Buildings. <i>Procedia Engineering</i> , 2016 , 146, 424-430		1
15	Performance of VRF systems based on large scale monitoring. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 052012	0.4	1
14	A guideline to document occupant behavior models for advanced building controls. <i>Building and Environment</i> , 2022 , 219, 109195	6.5	1
13	Lighting System Control in Office Building Using Occupancy Prediction Based on Historical Occupied Ratio. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 238, 012009	0.3	0
12	A Data-Driven Model Predictive Control for Lighting System Based on Historical Occupancy in an Office Building: Methodology Development. <i>Sustainable Development Goals Series</i> , 2021 , 93-114	0.5	0
11	DeST 3.0: A new-generation building performance simulation platform. <i>Building Simulation</i> ,	3.9	0
10	Study on Energy Performance of Passive Zone and Non-passive Zone in Office Buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 238, 012008	0.3	
9	Adapting LT-Method for Building Energy Prediction in China. <i>Procedia Engineering</i> , 2017 , 205, 3-10		
8	Research on Behavior Pattern Prediction at Early Stage of Design. <i>Environmental Science and Engineering</i> , 2020 , 241-248	0.2	

- 7 Development of a Library for Building Surface Layout Simulator. *Environmental Science and Engineering*, **2020**, 1137-1144 0.2
- 6 Impacts of PCM Location and Thickness on Dynamic Thermal Characteristics of External Walls for Residential Buildings. *Environmental Science and Engineering*, **2020**, 127-135 0.2
- 5 Validation and Ground Truths **2018**, 239-260
- 4 Evaluation of the occupants' exposure to the indoor environment.. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 042066 0.4
- 3 Auto-tuning method for data-driven models in building energy consumption prediction: a case of cooling load prediction. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 052031 0.4
- 2 Investigating the Role of Occupant Behavior in Design Energy Poverty Strategies. Insights from Energy Simulation Results. *Green Energy and Technology*, **2021**, 525-537 0.6
- 1 Cluster Analysis for Occupant-Behaviour Based Electricity Load Patterns in Buildings: A Case Study in Shanghai Residences. *Sustainable Development Goals Series*, **2021**, 81-92 0.5