

# Tianzhen Hong

## 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.

177  
papers

7,460  
citations

51  
h-index

80  
g-index

183  
ext. papers

9,341  
ext. citations

7.3  
avg, IF

7.1  
L-index

#	Paper	IF	Citations
177	Occupant behavior modeling for building performance simulation: Current state and future challenges. <i>Energy and Buildings</i> , <b>2015</b> , 107, 264-278	7	477
176	Advances in research and applications of energy-related occupant behavior in buildings. <i>Energy and Buildings</i> , <b>2016</b> , 116, 694-702	7	289
175	Ten questions concerning occupant behavior in buildings: The big picture. <i>Building and Environment</i> , <b>2017</b> , 114, 518-530	6.5	254
174	IEA EBC Annex 66: Definition and simulation of occupant behavior in buildings. <i>Energy and Buildings</i> , <b>2017</b> , 156, 258-270	7	206
173	Occupancy schedules learning process through a data mining framework. <i>Energy and Buildings</i> , <b>2015</b> , 88, 395-408	7	187
172	The human dimensions of energy use in buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 731-742	16.2	181
171	IEA EBC annex 53: Total energy use in buildings Analysis and evaluation methods. <i>Energy and Buildings</i> , <b>2017</b> , 152, 124-136	7	180
170	An ontology to represent energy-related occupant behavior in buildings. Part I: Introduction to the DNAs framework. <i>Building and Environment</i> , <b>2015</b> , 92, 764-777	6.5	176
169	Automatic generation and simulation of urban building energy models based on city datasets for city-scale building retrofit analysis. <i>Applied Energy</i> , <b>2017</b> , 205, 323-335	10.7	176
168	Simulation of occupancy in buildings. <i>Energy and Buildings</i> , <b>2015</b> , 87, 348-359	7	163
167	A data-mining approach to discover patterns of window opening and closing behavior in offices. <i>Building and Environment</i> , <b>2014</b> , 82, 726-739	6.5	160
166	Building simulation: an overview of developments and information sources. <i>Building and Environment</i> , <b>2000</b> , 35, 347-361	6.5	148
165	Quantifying the impacts of climate change and extreme climate events on energy systems. <i>Nature Energy</i> , <b>2020</b> , 5, 150-159	62.3	121
164	Commercial Building Energy Saver: An energy retrofit analysis toolkit. <i>Applied Energy</i> , <b>2015</b> , 159, 298-309	10.7	108
163	An ontology to represent energy-related occupant behavior in buildings. Part II: Implementation of the DNAs framework using an XML schema. <i>Building and Environment</i> , <b>2015</b> , 94, 196-205	6.5	108
162	An occupant behavior modeling tool for co-simulation. <i>Energy and Buildings</i> , <b>2016</b> , 117, 272-281	7	108
161	A framework for quantifying the impact of occupant behavior on energy savings of energy conservation measures. <i>Energy and Buildings</i> , <b>2017</b> , 146, 383-396	7	105

160	A fresh look at weather impact on peak electricity demand and energy use of buildings using 30-year actual weather data. <i>Applied Energy</i> , <b>2013</b> , 111, 333-350	10.7	93
159	Ten questions on urban building energy modeling. <i>Building and Environment</i> , <b>2020</b> , 168, 106508	6.5	92
158	Building thermal load prediction through shallow machine learning and deep learning. <i>Applied Energy</i> , <b>2020</b> , 263, 114683	10.7	89
157	Stochastic modeling of overtime occupancy and its application in building energy simulation and calibration. <i>Building and Environment</i> , <b>2014</b> , 79, 1-12	6.5	88
156	A close look at the China Design Standard for Energy Efficiency of Public Buildings. <i>Energy and Buildings</i> , <b>2009</b> , 41, 426-435	7	86
155	An insight into actual energy use and its drivers in high-performance buildings. <i>Applied Energy</i> , <b>2014</b> , 131, 394-410	10.7	83
154	State-of-the-art on research and applications of machine learning in the building life cycle. <i>Energy and Buildings</i> , <b>2020</b> , 212, 109831	7	82
153	Energy retrofit analysis toolkits for commercial buildings: A review. <i>Energy</i> , <b>2015</b> , 89, 1087-1100	7.9	80
152	Reinforcement learning for building controls: The opportunities and challenges. <i>Applied Energy</i> , <b>2020</b> , 269, 115036	10.7	78
151	Data and analytics to inform energy retrofit of high performance buildings. <i>Applied Energy</i> , <b>2014</b> , 126, 90-106	10.7	77
150	Occupancy data analytics and prediction: A case study. <i>Building and Environment</i> , <b>2016</b> , 102, 179-192	6.5	77
149	Statistical analysis and modeling of occupancy patterns in open-plan offices using measured lighting-switch data. <i>Building Simulation</i> , <b>2013</b> , 6, 23-32	3.9	76
148	Data analysis and stochastic modeling of lighting energy use in large office buildings in China. <i>Energy and Buildings</i> , <b>2015</b> , 86, 275-287	7	74
147	Comparative study of the cooling energy performance of variable refrigerant flow systems and variable air volume systems in office buildings. <i>Applied Energy</i> , <b>2016</b> , 183, 725-736	10.7	74
146	Occupant behavior models: A critical review of implementation and representation approaches in building performance simulation programs. <i>Building Simulation</i> , <b>2018</b> , 11, 1-14	3.9	73
145	Building simulation: Ten challenges. <i>Building Simulation</i> , <b>2018</b> , 11, 871-898	3.9	72
144	Temporal and spatial characteristics of the urban heat island in Beijing and the impact on building design and energy performance. <i>Energy</i> , <b>2017</b> , 130, 286-297	7.9	71
143	Modeling of HVAC operational faults in building performance simulation. <i>Applied Energy</i> , <b>2017</b> , 202, 178-188	10.7	68

142	Synthesizing building physics with social psychology: An interdisciplinary framework for context and occupant behavior in office buildings. <i>Energy Research and Social Science</i> , <b>2017</b> , 34, 240-251	7.7	66
141	A pattern-based automated approach to building energy model calibration. <i>Applied Energy</i> , <b>2016</b> , 165, 214-224	10.7	65
140	Linking energy-cyber-physical systems with occupancy prediction and interpretation through WiFi probe-based ensemble classification. <i>Applied Energy</i> , <b>2019</b> , 236, 55-69	10.7	65
139	Comparison of energy efficiency between variable refrigerant flow systems and ground source heat pump systems. <i>Energy and Buildings</i> , <b>2010</b> , 42, 584-589	7	64
138	A simulation approach to estimate energy savings potential of occupant behavior measures. <i>Energy and Buildings</i> , <b>2017</b> , 136, 43-62	7	63
137	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. <i>Building and Environment</i> , <b>2020</b> , 178, 106738	6.5	62
136	Development of city buildings dataset for urban building energy modeling. <i>Energy and Buildings</i> , <b>2019</b> , 183, 252-265	7	62
135	An agent-based stochastic Occupancy Simulator. <i>Building Simulation</i> , <b>2018</b> , 11, 37-49	3.9	58
134	Occupancy prediction through Markov based feedback recurrent neural network (M-FRNN) algorithm with WiFi probe technology. <i>Building and Environment</i> , <b>2018</b> , 138, 160-170	6.5	58
133	On variations of space-heating energy use in office buildings. <i>Applied Energy</i> , <b>2013</b> , 111, 515-528	10.7	57
132	Data mining of space heating system performance in affordable housing. <i>Building and Environment</i> , <b>2015</b> , 89, 1-13	6.5	54
131	A novel stochastic modeling method to simulate cooling loads in residential districts. <i>Applied Energy</i> , <b>2017</b> , 206, 134-149	10.7	54
130	Electric load shape benchmarking for small- and medium-sized commercial buildings. <i>Applied Energy</i> , <b>2017</b> , 204, 715-725	10.7	54
129	Impacts of building geometry modeling methods on the simulation results of urban building energy models. <i>Applied Energy</i> , <b>2018</b> , 215, 717-735	10.7	53
128	Occupancy prediction through machine learning and data fusion of environmental sensing and Wi-Fi sensing in buildings. <i>Automation in Construction</i> , <b>2018</b> , 94, 233-243	9.6	51
127	Urban building energy modeling (UBEM) tools: A state-of-the-art review of bottom-up physics-based approaches. <i>Sustainable Cities and Society</i> , <b>2020</b> , 62, 102408	10.1	51
126	Data fusion in predicting internal heat gains for office buildings through a deep learning approach. <i>Applied Energy</i> , <b>2019</b> , 240, 386-398	10.7	50
125	Comparison of typical year and multiyear building simulations using a 55-year actual weather data set from China. <i>Applied Energy</i> , <b>2017</b> , 195, 890-904	10.7	49

124	Improving the accuracy of energy baseline models for commercial buildings with occupancy data. <i>Applied Energy</i> , <b>2016</b> , 179, 247-260	10.7	49
123	A new multizone model for the simulation of building thermal performance. <i>Building and Environment</i> , <b>1997</b> , 32, 123-128	6.5	48
122	Development and validation of a new variable refrigerant flow system model in EnergyPlus. <i>Energy and Buildings</i> , <b>2016</b> , 117, 399-411	7	47
121	A detailed loads comparison of three building energy modeling programs: EnergyPlus, DeST and DOE-2.1E. <i>Building Simulation</i> , <b>2013</b> , 6, 323-335	3.9	47
120	Clustering and statistical analyses of air-conditioning intensity and use patterns in residential buildings. <i>Energy and Buildings</i> , <b>2018</b> , 174, 214-227	7	44
119	Simulation and visualization of energy-related occupant behavior in office buildings. <i>Building Simulation</i> , <b>2017</b> , 10, 785-798	3.9	43
118	Performance evaluation of an agent-based occupancy simulation model. <i>Building and Environment</i> , <b>2017</b> , 115, 42-53	6.5	42
117	Accelerating the energy retrofit of commercial buildings using a database of energy efficiency performance. <i>Energy</i> , <b>2015</b> , 90, 738-747	7.9	41
116	Comparison of building energy use data between the United States and China. <i>Energy and Buildings</i> , <b>2014</b> , 78, 165-175	7	41
115	Data analytics and optimization of an ice-based energy storage system for commercial buildings. <i>Applied Energy</i> , <b>2017</b> , 204, 459-475	10.7	39
114	An international review of occupant-related aspects of building energy codes and standards. <i>Building and Environment</i> , <b>2020</b> , 179, 106906	6.5	38
113	A thorough assessment of China's standard for energy consumption of buildings. <i>Energy and Buildings</i> , <b>2017</b> , 143, 114-128	7	33
112	Translating climate change and heating system electrification impacts on building energy use to future greenhouse gas emissions and electric grid capacity requirements in California. <i>Applied Energy</i> , <b>2018</b> , 225, 522-534	10.7	33
111	Incorporating machine learning with building network analysis to predict multi-building energy use. <i>Energy and Buildings</i> , <b>2019</b> , 186, 80-97	7	31
110	Advanced Building Control via Deep Reinforcement Learning. <i>Energy Procedia</i> , <b>2019</b> , 158, 6158-6163	2.3	30
109	Forecasting district-scale energy dynamics through integrating building network and long short-term memory learning algorithm. <i>Applied Energy</i> , <b>2019</b> , 248, 217-230	10.7	28
108	Coupling CFD and building energy modelling to optimize the operation of a large open office space for occupant comfort. <i>Sustainable Cities and Society</i> , <b>2020</b> , 60, 102257	10.1	28
107	Analysis of heating load diversity in German residential districts and implications for the application in district heating systems. <i>Energy and Buildings</i> , <b>2017</b> , 139, 302-313	7	27

106	Updates to the China Design Standard for Energy Efficiency in public buildings. <i>Energy Policy</i> , <b>2015</b> , 87, 187-198	7.2	27
105	Revisiting individual and group differences in thermal comfort based on ASHRAE database. <i>Energy and Buildings</i> , <b>2020</b> , 219, 110017	7	27
104	Human-building interaction at work: Findings from an interdisciplinary cross-country survey in Italy. <i>Building and Environment</i> , <b>2018</b> , 132, 147-159	6.5	27
103	Modeling occupancy distribution in large spaces with multi-feature classification algorithm. <i>Building and Environment</i> , <b>2018</b> , 137, 108-117	6.5	26
102	Italian prototype building models for urban scale building performance simulation. <i>Building and Environment</i> , <b>2021</b> , 192, 107590	6.5	25
101	Inferring occupant counts from Wi-Fi data in buildings through machine learning. <i>Building and Environment</i> , <b>2019</b> , 158, 281-294	6.5	24
100	Integrating physics-based models with sensor data: An inverse modeling approach. <i>Building and Environment</i> , <b>2019</b> , 154, 23-31	6.5	24
99	Comparison of HVAC system modeling in EnergyPlus, DeST and DOE-2.1E. <i>Building Simulation</i> , <b>2014</b> , 7, 21-33	3.9	24
98	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
97	Energy flexibility of residential buildings: A systematic review of characterization and quantification methods and applications. <i>Advances in Applied Energy</i> , <b>2021</b> , 3, 100054		24
96	Revealing Urban Morphology and Outdoor Comfort through Genetic Algorithm-Driven Urban Block Design in Dry and Hot Regions of China. <i>Sustainability</i> , <b>2019</b> , 11, 3683	3.6	23
95	IISABRE: An integrated building simulation environment. <i>Building and Environment</i> , <b>1997</b> , 32, 219-224	6.5	23
94	Stochastic weather model for building HVAC systems. <i>Building and Environment</i> , <b>1995</b> , 30, 521-532	6.5	23
93	Simulation-aided occupant-centric building design: A critical review of tools, methods, and applications. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110292	7	22
92	A novel Variable Refrigerant Flow (VRF) heat recovery system model: Development and validation. <i>Energy and Buildings</i> , <b>2018</b> , 168, 399-412	7	21
91	Modelling urban-scale occupant behaviour, mobility, and energy in buildings: A survey. <i>Building and Environment</i> , <b>2020</b> , 183, 106964	6.5	20
90	The impact of evaporation from porous tile on roof thermal performance: A case study of Guangzhou's climatic conditions. <i>Energy and Buildings</i> , <b>2017</b> , 136, 161-172	7	19
89	Energy, economic, and environmental analysis of integration of thermal energy storage into district heating systems using waste heat from data centres. <i>Energy</i> , <b>2021</b> , 219, 119582	7.9	19

88	Quantifying the benefits of a building retrofit using an integrated system approach: A case study. <i>Energy and Buildings</i> , <b>2018</b> , 159, 332-345	7	19
87	Predicting plug loads with occupant count data through a deep learning approach. <i>Energy</i> , <b>2019</b> , 181, 29-42	7.9	18
86	A critical review on questionnaire surveys in the field of energy-related occupant behaviour. <i>Energy Efficiency</i> , <b>2018</b> , 11, 2157-2177	3	18
85	Comparative study of air-conditioning energy use of four office buildings in China and USA. <i>Energy and Buildings</i> , <b>2018</b> , 169, 344-352	7	18
84	System-level key performance indicators for building performance evaluation. <i>Energy and Buildings</i> , <b>2020</b> , 209, 109703	7	18
83	The impacts of building characteristics, social psychological and cultural factors on indoor environment quality productivity belief. <i>Building and Environment</i> , <b>2020</b> , 185, 107189	6.5	18
82	Automatic and rapid calibration of urban building energy models by learning from energy performance database. <i>Applied Energy</i> , <b>2020</b> , 277, 115584	10.7	18
81	Buildings.Occupants: a Modelica package for modelling occupant behaviour in buildings. <i>Journal of Building Performance Simulation</i> , <b>2019</b> , 12, 433-444	2.8	18
80	Data Mining of Occupant Behavior in Office Buildings. <i>Energy Procedia</i> , <b>2015</b> , 78, 585-590	2.3	17
79	Simulation-based assessment of the energy savings benefits of integrated control in office buildings. <i>Building Simulation</i> , <b>2009</b> , 2, 239	3.9	17
78	Learning occupants' indoor comfort temperature through a Bayesian inference approach for office buildings in United States. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 119, 109593	16.2	16
77	Generating realistic building electrical load profiles through the Generative Adversarial Network (GAN). <i>Energy and Buildings</i> , <b>2020</b> , 224, 110299	7	16
76	Performance-Based Evaluation of Courtyard Design in China's Cold-Winter Hot-Summer Climate Regions. <i>Sustainability</i> , <b>2018</b> , 10, 3950	3.6	16
75	Smart building management vs. intuitive human control: Lessons learnt from an office building in Hungary. <i>Building Simulation</i> , <b>2017</b> , 10, 811-828	3.9	15
74	An inverse approach to solving zone air infiltration rate and people count using indoor environmental sensor data. <i>Energy and Buildings</i> , <b>2019</b> , 198, 228-242	7	15
73	Nexus of thermal resilience and energy efficiency in buildings: A case study of a nursing home. <i>Building and Environment</i> , <b>2020</b> , 177, 106842	6.5	15
72	Culture, conformity, and carbon? A multi-country analysis of heating and cooling practices in office buildings. <i>Energy Research and Social Science</i> , <b>2020</b> , 61, 101344	7.7	15
71	A novel approach for selecting typical hot-year (THY) weather data. <i>Applied Energy</i> , <b>2019</b> , 242, 1634-1648	10.7	14

70	Cross-source sensing data fusion for building occupancy prediction with adaptive lasso feature filtering. <i>Building and Environment</i> , <b>2019</b> , 162, 106280	6.5	14
69	A design day for building load and energy estimation. <i>Building and Environment</i> , <b>1999</b> , 34, 469-477	6.5	14
68	Linking human-building interactions in shared offices with personality traits. <i>Building and Environment</i> , <b>2020</b> , 170, 106602	6.5	14
67	City-Scale Building Anthropogenic Heating during Heat Waves. <i>Atmosphere</i> , <b>2020</b> , 11, 1206	2.7	14
66	Predicting city-scale daily electricity consumption using data-driven models. <i>Advances in Applied Energy</i> , <b>2021</b> , 2, 100025		14
65	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> , <b>2017</b> , 139, 407-416 <sup>7</sup>		13
64	Contextualising adaptive comfort behaviour within low-income housing of Mumbai, India. <i>Building and Environment</i> , <b>2020</b> , 177, 106877	6.5	13
63	Stochastic analysis of building thermal processes. <i>Building and Environment</i> , <b>1993</b> , 28, 509-518	6.5	13
62	Modeling and analysis of heat emissions from buildings to ambient air. <i>Applied Energy</i> , <b>2020</b> , 277, 115566	6.7	13
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	A preliminary investigation of water usage behavior in single-family homes. <i>Building Simulation</i> , <b>2017</b> , 10, 949-962	3.9	12
59	Identifying key determinants for building energy analysis from urban building datasets. <i>Building and Environment</i> , <b>2020</b> , 181, 107114	6.5	12
58	A library of building occupant behaviour models represented in a standardised schema. <i>Energy Efficiency</i> , <b>2019</b> , 12, 637-651	3	12
57	Evaluation of thermal imbalance of ground source heat pump systems in residential buildings in China. <i>Building Simulation</i> , <b>2020</b> , 13, 585-598	3.9	11
56	Comparing computer run time of building simulation programs. <i>Building Simulation</i> , <b>2008</b> , 1, 210-213	3.9	11
55	Modeling Thermal Interactions between Buildings in an Urban Context. <i>Energies</i> , <b>2020</b> , 13, 2382	3.1	11
54	A framework for estimating the energy-saving potential of occupant behaviour improvement. <i>Applied Energy</i> , <b>2021</b> , 287, 116591	10.7	11
53	Assessment of occupant-behavior-based indoor air quality and its impacts on human exposure risk: A case study based on the wildfires in Northern California. <i>Science of the Total Environment</i> , <b>2019</b> , 686, 1251-1261	10.2	10



52	Performance-driven optimization of urban open space configuration in the cold-winter and hot-summer region of China. <i>Building Simulation</i> , <b>2019</b> , 12, 411-424	3.9	10
51	Impact of post-rainfall evaporation from porous roof tiles on building cooling load in subtropical China. <i>Applied Thermal Engineering</i> , <b>2018</b> , 142, 391-400	5.8	10
50	Transfer learning for smart buildings: A critical review of algorithms, applications, and future perspectives. <i>Advances in Applied Energy</i> , <b>2022</b> , 5, 100084		10
49	PAD <b>2017</b> ,		9
48	Robustness of energy performance of Zero-Net-Energy (ZNE) homes. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110251	7	9
47	Assessment of energy savings potential from the use of demand controlled ventilation in general office spaces in California. <i>Building Simulation</i> , <b>2010</b> , 3, 117-124	3.9	8
46	Building Performance Simulation		8
45	Characterizing patterns and variability of building electric load profiles in time and frequency domains. <i>Applied Energy</i> , <b>2021</b> , 291, 116721	10.7	8
44	An improved method for direct incident solar radiation calculation from hourly solar insolation data in building energy simulation. <i>Energy and Buildings</i> , <b>2020</b> , 227, 110425	7	7
43	A simulation-based assessment of technologies to reduce heat emissions from buildings. <i>Building and Environment</i> , <b>2021</b> , 195, 107772	6.5	6
42	An ontology to represent synthetic building occupant characteristics and behavior. <i>Automation in Construction</i> , <b>2021</b> , 125, 103621	9.6	6
41	Occupant-Centric key performance indicators to inform building design and operations. <i>Journal of Building Performance Simulation</i> , 1-29	2.8	6
40	A Framework for Privacy-Preserving Data Publishing with Enhanced Utility for Cyber-Physical Systems. <i>ACM Transactions on Sensor Networks</i> , <b>2018</b> , 14, 1-22	2.9	6
39	AlphaBuilding ResCommunity: A multi-agent virtual testbed for community-level load coordination. <i>Advances in Applied Energy</i> , <b>2021</b> , 4, 100061		6
38	Optimize heat prosumers' economic performance under current heating price models by using water tank thermal energy storage. <i>Energy</i> , <b>2022</b> , 239, 122103	7.9	6
37	Generation and representation of synthetic smart meter data. <i>Building Simulation</i> , <b>2020</b> , 13, 1205-1220	3.9	5
36	Open Computing Infrastructure for Sharing Data Analytics to Support Building Energy Simulations. <i>Journal of Computing in Civil Engineering</i> , <b>2019</b> , 33, 04019037	5	5
35	Urban microclimate and its impact on building performance: A case study of San Francisco. <i>Urban Climate</i> , <b>2021</b> , 38, 100871	6.8	4

34	Prototype energy models for data centers. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110603	7	4
33	Vertical meteorological patterns and their impact on the energy demand of tall buildings. <i>Energy and Buildings</i> , <b>2021</b> , 232, 110624	7	4
32	Passive cooling designs to improve heat resilience of homes in underserved and vulnerable communities. <i>Energy and Buildings</i> , <b>2021</b> , 252, 111383	7	4
31	Validation of an inverse model of zone air heat balance. <i>Building and Environment</i> , <b>2019</b> , 161, 106232	6.5	3
30	Outdoor synthetic temperature for the calculation of space heating load. <i>Energy and Buildings</i> , <b>1998</b> , 28, 269-277	7	3
29	Comparison of Building Energy Modeling Programs: Building Loads		3
28	Building Energy Benchmarking Between the United States and China: Methods and Challenges. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 473-486	0.2	3
27	Representation and evolution of urban weather boundary conditions in downtown Chicago. <i>Journal of Building Performance Simulation</i> , <b>2020</b> , 13, 182-194	2.8	3
26	Operation and performance of VRF systems: Mining a large-scale dataset. <i>Energy and Buildings</i> , <b>2021</b> , 230, 110519	7	3
25	A synthetic building operation dataset. <i>Scientific Data</i> , <b>2021</b> , 8, 213	8.2	3
24	An overview of data tools for representing and managing building information and performance data. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 147, 111224	16.2	3
23	Exploring thermal state in mixed immersive virtual environments. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 102918	5.2	3
22	A three-year dataset supporting research on building energy management and occupancy analytics.. <i>Scientific Data</i> , <b>2022</b> , 9, 156	8.2	3
21	Distinguish between the economic optimal and lowest distribution temperatures for heat-prosumer-based district heating systems with short-term thermal energy storage. <i>Energy</i> , <b>2022</b> , 248, 123601	7.9	3
20	Ten questions concerning agent-based modeling of occupant behavior for energy and environmental performance of buildings. <i>Building and Environment</i> , <b>2022</b> , 217, 109016	6.5	3
19	Field demonstration and implementation analysis of model predictive control in an office HVAC system. <i>Applied Energy</i> , <b>2022</b> , 318, 119104	10.7	3
18	Privacy-preserving building-related data publication using PAD <b>2017</b> ,		2
17	Review of Existing Energy Retrofit Tools		2

16	2020,			2
15	Anthropogenic heating of the urban environment: An investigation of feedback dynamics between urban micro-climate and decomposed anthropogenic heating from buildings. <i>Building and Environment</i> , <b>2022</b> , 213, 108841	6.5		1
14	Large scale energy analysis and renovation strategies for social housing in the historic city of Venice. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102041	4.7		1
13	Investigation of pre-cooling as a recommended measure to improve residential buildings thermal resilience during heat waves. <i>Building and Environment</i> , <b>2022</b> , 210, 108694	6.5		1
12	Extreme events, energy security and equality through micro- and macro-levels: Concepts, challenges and methods. <i>Energy Research and Social Science</i> , <b>2022</b> , 85, 102401	7.7		1
11	Developing quantitative insights on building occupant behaviour: Supporting modelling tools and datasets <b>2020</b> , 283-319			1
10	How Can Floor Covering Influence Buildings Demand Flexibility?. <i>Energies</i> , <b>2021</b> , 14, 3658	3.1		1
9	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> , <b>2021</b> , 16, 074003	6.2		1
8	Application and evaluation of a pattern-based building energy model calibration method using public building datasets. <i>Building Simulation</i> , <b>2022</b> , 15, 1385-1400	3.9		1
7	A level-of-details framework for representing occupant behavior in agent-based models. <i>Automation in Construction</i> , <b>2022</b> , 139, 104290	9.6		1
6	Generating synthetic occupants for use in building performance simulation. <i>Journal of Building Performance Simulation</i> , 1-18	2.8		0
5	Intersecting heuristic adaptive strategies, building design and energy saving intentions when facing discomfort environment: A cross-country analysis. <i>Building and Environment</i> , <b>2021</b> , 204, 108129	6.5		0
4	Developing occupant archetypes within urban low-income housing: A case study in Mumbai, India. <i>Building Simulation</i> , 1	3.9		0
3	Extending the Brick schema to represent metadata of occupants. <i>Automation in Construction</i> , <b>2022</b> , 139, 104307	9.6		0
2	The Application of Urban Building Energy Modeling in Urban Planning. <i>Future City</i> , <b>2021</b> , 45-63	0.1		
1	A review of preserving privacy in data collected from buildings with differential privacy. <i>Journal of Building Engineering</i> , <b>2022</b> , 56, 104724	5.2		