

# Da Yan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8329840/da-yan-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Co-simulation of dynamic underground heat transfer with building energy modeling based on equivalent slab method. <i>Energy and Buildings</i> , <b>2022</b> , 256, 111728	7	3
131	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
130	Modeling occupant behavior influence on the energy efficiency of solar domestic hot water systems. <i>Applied Energy</i> , <b>2022</b> , 309, 118503	10.7	6
129	A review on buildings energy information: Trends, end-uses, fuels and drivers. <i>Energy Reports</i> , <b>2022</b> , 8, 626-637	4.6	16
128	Systematically incorporating spectrum-selective radiative cooling into building performance simulation: Numerical integration method and experimental validation. <i>Applied Energy</i> , <b>2022</b> , 312, 118733	10.7	3
127	Generation and verification of vertical meteorological data for building energy simulation from a 325-meter Beijing meteorological tower. <i>Energy and Buildings</i> , <b>2022</b> , 262, 111992	7	2
126	Assessing the potential of decarbonizing China's building construction by 2060 and synergy with industry sector. <i>Journal of Cleaner Production</i> , <b>2022</b> , 359, 132086	10.3	2
125	A guideline to document occupant behavior models for advanced building controls. <i>Building and Environment</i> , <b>2022</b> , 219, 109195	6.5	1
124	Occupancy data at different spatial resolutions: Building energy performance and model calibration. <i>Applied Energy</i> , <b>2021</b> , 286, 116492	10.7	20
123	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> , <b>2021</b> , 236, 110783	7	7
122	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> , <b>2021</b> , 11, 160	3.2	3
121	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. <i>Applied Energy</i> , <b>2021</b> , 293, 116856	10.7	12
120	A data-driven model predictive control for lighting system based on historical occupancy in an office building: Methodology development. <i>Building Simulation</i> , <b>2021</b> , 14, 219-235	3.9	16
119	An action-based Markov chain modeling approach for predicting the window operating behavior in office spaces. <i>Building Simulation</i> , <b>2021</b> , 14, 301-315	3.9	14
118	Clustering-based probability distribution model for monthly residential building electricity consumption analysis. <i>Building Simulation</i> , <b>2021</b> , 14, 149-164	3.9	6
117	Comparative analysis of window operating behavior in three different open-plan offices in Nanjing. <i>Energy and Built Environment</i> , <b>2021</b> , 2, 175-187	6.3	6
116	Modelling building energy consumption in China under different future scenarios. <i>Energy</i> , <b>2021</b> , 214, 119063	7.9	37

115	Operation and performance of VRF systems: Mining a large-scale dataset. <i>Energy and Buildings</i> , <b>2021</b> , 230, 110519	7	3
114	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. <i>Building Simulation</i> , <b>2021</b> , 14, 3-24	3.9	53
113	Investigating the Role of Occupant Behavior in Design Energy Poverty Strategies. Insights from Energy Simulation Results. <i>Green Energy and Technology</i> , <b>2021</b> , 525-537	0.6	
112	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
111	Scientometric mapping of smart building research: Towards a framework of human-cyber-physical system (HCPS). <i>Automation in Construction</i> , <b>2021</b> , 129, 103776	9.6	6
110	Predicting open-plan office window operating behavior using the random forest algorithm. <i>Journal of Building Engineering</i> , <b>2021</b> , 42, 102514	5.2	11
109	Comparison of different machine learning algorithms for predicting air-conditioning operating behavior in open-plan offices. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111347	7	7
108	Typical weekly occupancy profiles in non-residential buildings based on mobile positioning data. <i>Energy and Buildings</i> , <b>2021</b> , 250, 111264	7	8
107	Building occupancy forecasting: A systematical and critical review. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111345	4.5	12
106	Forecasting building occupancy: A temporal-sequential analysis and machine learning integrated approach. <i>Energy and Buildings</i> , <b>2021</b> , 252, 111362	7	2
105	Cluster Analysis for Occupant-Behaviour Based Electricity Load Patterns in Buildings: A Case Study in Shanghai Residences. <i>Sustainable Development Goals Series</i> , <b>2021</b> , 81-92	0.5	
104	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> , <b>2021</b> , 93-114	0.5	0
103	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
102	Building categorization revisited: A clustering-based approach to using smart meter data for building energy benchmarking. <i>Applied Energy</i> , <b>2020</b> , 269, 114920	10.7	28
101	Design and operation optimization of multi-chiller plants based on energy performance simulation. <i>Energy and Buildings</i> , <b>2020</b> , 222, 110100	7	14
100	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
99	Appliance use behavior modelling and evaluation in residential buildings: A case study of television energy use. <i>Building Simulation</i> , <b>2020</b> , 13, 787-801	3.9	6
98	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> , <b>2020</b> , 13, 543-558	3.9	8

97	A systematic review of occupant behavior in building energy policy. <i>Building and Environment</i> , <b>2020</b> , 175, 106807	6.5	50
96	Non-invasive (non-contact) measurements of human thermal physiology signals and thermal comfort/discomfort poses -A review. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110261	7	50
95	Power consumption and energy efficiency of VRF system based on large scale monitoring virtual sensors. <i>Building Simulation</i> , <b>2020</b> , 13, 1145-1156	3.9	10
94	Exploring key factors impacting cooling usage patterns of Chinese urban household based on a large-scale questionnaire survey. <i>Energy and Buildings</i> , <b>2020</b> , 214, 109885	7	4
93	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
92	Building occupant transient agent-based model [Movement module]. <i>Applied Energy</i> , <b>2020</b> , 261, 114417	10.7	8
91	Research on Behavior Pattern Prediction at Early Stage of Design. <i>Environmental Science and Engineering</i> , <b>2020</b> , 241-248	0.2	
90	Development of a Library for Building Surface Layout Simulator. <i>Environmental Science and Engineering</i> , <b>2020</b> , 1137-1144	0.2	
89	Impacts of PCM Location and Thickness on Dynamic Thermal Characteristics of External Walls for Residential Buildings. <i>Environmental Science and Engineering</i> , <b>2020</b> , 127-135	0.2	
88	Development of Prototype Building Model in Beijing Based on Actual Energy Consumption. <i>Environmental Science and Engineering</i> , <b>2020</b> , 1187-1196	0.2	4
87	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
86	Analysis of district cooling system with chilled water thermal storage in hot summer and cold winter area of China. <i>Building Simulation</i> , <b>2020</b> , 13, 349-361	3.9	6
85	Development of an adaptation table to enhance the accuracy of the predicted mean vote model. <i>Building and Environment</i> , <b>2020</b> , 168, 106504	6.5	11
84	Review and estimation of global halocarbon emissions in the buildings sector. <i>Energy and Buildings</i> , <b>2020</b> , 225, 110311	7	8
83	Global comparison of building energy use data within the context of climate change. <i>Energy and Buildings</i> , <b>2020</b> , 226, 110362	7	13
82	A novel mobility-based approach to derive urban-scale building occupant profiles and analyze impacts on building energy consumption. <i>Applied Energy</i> , <b>2020</b> , 278, 115656	10.7	13
81	A Technical Review of Modeling Techniques for Urban Solar Mobility: Solar to Buildings, Vehicles, and Storage (S2BVS). <i>Sustainability</i> , <b>2020</b> , 12, 7035	3.6	7
80	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

79	Modelling of energy consumption and carbon emission from the building construction sector in China, a process-based LCA approach. <i>Energy Policy</i> , <b>2019</b> , 134, 110949	7.2	62
78	Analytical Methodology of Monthly Residential Building Electricity Consumption Based on Data Mining Models. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 238, 012050	0.3	1
77	A novel approach for selecting typical hot-year (THY) weather data. <i>Applied Energy</i> , <b>2019</b> , 242, 1634-1648	0.7	14
76	Investigation and analysis of Chinese residential building occupancy with large-scale questionnaire surveys. <i>Energy and Buildings</i> , <b>2019</b> , 193, 289-304	7	21
75	Household appliance recognition through a Bayes classification model. <i>Sustainable Cities and Society</i> , <b>2019</b> , 46, 101393	10.1	14
74	Lighting System Control in Office Building Using Occupancy Prediction Based on Historical Occupied Ratio. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 238, 012009	0.3	0
73	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> , <b>2019</b> , 238, 012047	0.3	1
72	A review of reinforcement learning methodologies for controlling occupant comfort in buildings. <i>Sustainable Cities and Society</i> , <b>2019</b> , 51, 101748	10.1	51
71	Using bottom-up model to analyze cooling energy consumption in China's urban residential building. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109352	7	20
70	Energy and behaviour at home: A review of intervention methods and practices. <i>Energy Research and Social Science</i> , <b>2019</b> , 57, 101238	7.7	33
69	Study on Energy Performance of Passive Zone and Non-passive Zone in Office Buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 238, 012008	0.3	
68	Real Time Measurement of Dynamic Metabolic Factor (D-MET). <i>Springer Proceedings in Energy</i> , <b>2019</b> , 677-688	0.2	1
67	Evaluation of the occupants' exposure to the indoor environment.. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 042066	0.4	
66	Performance of VRF systems based on large scale monitoring. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 052012	0.4	1
65	District household electricity consumption pattern analysis based on auto-encoder algorithm. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 072028	0.4	2
64	Auto-tuning method for data-driven models in building energy consumption prediction: a case of cooling load prediction. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 052031	0.4	
63	Building Blocks Energy Estimation (BBEE): A method for building energy estimation on district level. <i>Energy and Buildings</i> , <b>2019</b> , 185, 137-147	7	7
62	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> , <b>2018</b> , 167, 269-280	7.280	25

61	Coupled cooling method for multiple latent heat thermal storage devices combined with pre-cooling of envelope: Model development and operation optimization. <i>Energy</i> , <b>2018</b> , 159, 508-524	7.9	7
60	Modeling occupancy and behavior for better building design and operation—A critical review. <i>Building Simulation</i> , <b>2018</b> , 11, 899-921	3.9	84
59	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
58	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
57	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> , <b>2018</b> , 176, 151-162	7	11
56	Energy poverty and thermal comfort in northern urban China: A household-scale typology of infrastructural inequalities. <i>Energy and Buildings</i> , <b>2018</b> , 177, 363-374	7	19
55	Validation and Ground Truths <b>2018</b> , 239-260		
54	A review of uncertainty analysis in building energy assessment. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 93, 285-301	16.2	183
53	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> , <b>2018</b> , 42, 38-51	10.1	8
52	Comparative research on different air conditioning systems for residential buildings. <i>Frontiers of Architectural Research</i> , <b>2017</b> , 6, 42-52	2.3	5
51	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	7	13
50	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
49	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
48	Cluster analysis for occupant-behavior based electricity load patterns in buildings: A case study in Shanghai residences. <i>Building Simulation</i> , <b>2017</b> , 10, 889-898	3.9	28
47	Influence of load feature on the water distribution system in a centralized air-conditioning system. <i>Science and Technology for the Built Environment</i> , <b>2017</b> , 23, 277-284	1.8	1
46	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
45	A survey on energy consumption and energy usage behavior of households and residential building in urban China. <i>Energy and Buildings</i> , <b>2017</b> , 148, 366-378	7	157
44	Ten questions concerning occupant behavior in buildings: The big picture. <i>Building and Environment</i> , <b>2017</b> , 114, 518-530	6.5	254

43	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
42	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
41	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> , <b>2017</b> , 153, 99-110	7	17
40	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> , <b>2017</b> , 10, 799-810	3.9	15
39	Investigation and modelling of the centralized solar domestic hot water system in residential buildings. <i>Building Simulation</i> , <b>2017</b> , 10, 87-96	3.9	8
38	On the simulation repetition and temporal discretization of stochastic occupant behaviour models in building performance simulation. <i>Journal of Building Performance Simulation</i> , <b>2017</b> , 10, 612-624	2.8	15
37	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> , <b>2017</b> , 205, 2434-2441		3
36	Occupant migration monitoring in residential buildings with the use of a depth registration camera. <i>Procedia Engineering</i> , <b>2017</b> , 205, 1193-1200		7
35	Adapting LT-Method for Building Energy Prediction in China. <i>Procedia Engineering</i> , <b>2017</b> , 205, 3-10		
34	Relative importance of factors influencing building energy in urban environment. <i>Energy</i> , <b>2016</b> , 111, 237-250	7.9	20
33	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
32	An occupant behavior modeling tool for co-simulation. <i>Energy and Buildings</i> , <b>2016</b> , 117, 272-281	7	108
31	A generalized probabilistic formula relating occupant behavior to environmental conditions. <i>Building and Environment</i> , <b>2016</b> , 95, 53-62	6.5	50
30	Urban residential heating in hot summer and cold winter zones of China—Status, modeling, and scenarios to 2030. <i>Energy Policy</i> , <b>2016</b> , 92, 158-170	7.2	63
29	A preliminary research on the derivation of typical occupant behavior based on large-scale questionnaire surveys. <i>Energy and Buildings</i> , <b>2016</b> , 117, 332-340	7	55
28	Influence of household air-conditioning use modes on the energy performance of residential district cooling systems. <i>Building Simulation</i> , <b>2016</b> , 9, 429-441	3.9	37
27	Influence of asynchronous demand behavior on overcooling in multiple zone AC systems. <i>Building and Environment</i> , <b>2016</b> , 110, 65-75	6.5	9
26	Survey and performance analysis of centralized domestic hot water system in China. <i>Energy and Buildings</i> , <b>2016</b> , 133, 321-334	7	21



25	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
24	Modeling Individual's Light Switching Behavior to Understand Lighting Energy Use of Office Building. <i>Energy Procedia</i> , <b>2016</b> , 88, 781-787	2.3	20
23	Investigation and Modelling of the Centralized Solar Domestic Hot Water System in Residential Buildings. <i>Procedia Engineering</i> , <b>2016</b> , 146, 424-430		1
22	Data mining of space heating system performance in affordable housing. <i>Building and Environment</i> , <b>2015</b> , 89, 1-13	6.5	54
21	Building energy use in China: Ceiling and scenario. <i>Energy and Buildings</i> , <b>2015</b> , 102, 307-316	7	33
20	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
19	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
18	Simulation of occupancy in buildings. <i>Energy and Buildings</i> , <b>2015</b> , 87, 348-359	7	163
17	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
16	Investigation and analyses of residential heating in the HSCW climate zone of China: Status quo and key features. <i>Building and Environment</i> , <b>2015</b> , 94, 532-542	6.5	47
15	Application of Lorenz Curve and Gini Index in the Analysis of Load Feature in HVAC Systems. <i>Procedia Engineering</i> , <b>2015</b> , 121, 11-18		3
14	Demand response capability assessment for buildings based on simulation and model simplification <b>2015</b> ,		2
13	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
12	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
11	Air-conditioning usage conditional probability model for residential buildings. <i>Building and Environment</i> , <b>2014</b> , 81, 172-182	6.5	105
10	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
9	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
8	Modelling and applications of annual energy-using simulation module of separated heat pipe heat exchanger. <i>Energy and Buildings</i> , <b>2013</b> , 57, 26-33	7	37



7	Quantitative description and simulation of human behavior in residential buildings. <i>Building Simulation</i> , <b>2012</b> , 5, 85-94	3.9	68
6	Research on a dynamic simulation method of atrium thermal environment based on neural network. <i>Building and Environment</i> , <b>2012</b> , 50, 214-220	6.5	22
5	A novel approach for building occupancy simulation. <i>Building Simulation</i> , <b>2011</b> , 4, 149-167	3.9	156
4	DeST [An integrated building simulation toolkit Part I: Fundamentals. <i>Building Simulation</i> , <b>2008</b> , 1, 95-110]	3.9	183
3	An integrated modeling tool for simultaneous analysis of thermal performance and indoor air quality in buildings. <i>Building and Environment</i> , <b>2008</b> , 43, 287-293	6.5	13
2	Comparison of Building Energy Modeling Programs: Building Loads		3
1	DeST 3.0: A new-generation building performance simulation platform. <i>Building Simulation</i> ,	3.9	0