

# Bing Dong

## List of Publications by Citations

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46  
papers

1,677  
citations

21  
h-index

40  
g-index

49  
ext. papers

2,224  
ext. citations

6.7  
avg. IF

5.64  
L-index

#	Paper	IF	Citations
46	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
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	A real-time model predictive control for building heating and cooling systems based on the occupancy behavior pattern detection and local weather forecasting. <i>Building Simulation</i> , <b>2014</b> , 7, 89-106 <sup>2.9</sup>	3.9	137
43	Occupancy behavior based model predictive control for building indoor climate – A critical review. <i>Energy and Buildings</i> , <b>2016</b> , 129, 499-513	7	117
42	A hybrid model approach for forecasting future residential electricity consumption. <i>Energy and Buildings</i> , <b>2016</b> , 117, 341-351	7	97
41	Building energy and comfort management through occupant behaviour pattern detection based on a large-scale environmental sensor network. <i>Journal of Building Performance Simulation</i> , <b>2011</b> , 4, 359-369 <sup>3.8</sup>	3.8	87
40	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
39	A review of smart building sensing system for better indoor environment control. <i>Energy and Buildings</i> , <b>2019</b> , 199, 29-46	7	77
38	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
37	A Hierarchical Approach Using Machine Learning Methods in Solar Photovoltaic Energy Production Forecasting. <i>Energies</i> , <b>2016</b> , 9, 55	3.1	62
36	Modeling and control of building-integrated microgrids for optimal energy management – A review. <i>Applied Energy</i> , <b>2019</b> , 254, 113689	10.7	54
35	Coordinating the operations of smart buildings in smart grids. <i>Applied Energy</i> , <b>2018</b> , 228, 2510-2525	10.7	44
34	Baseline building energy modeling and localized uncertainty quantification using Gaussian mixture models. <i>Energy and Buildings</i> , <b>2013</b> , 65, 438-447	7	38
33	Market and behavior driven predictive energy management for residential buildings. <i>Sustainable Cities and Society</i> , <b>2018</b> , 38, 723-735	10.1	37
32	A new modeling approach for short-term prediction of occupancy in residential buildings. <i>Building and Environment</i> , <b>2017</b> , 121, 277-290	6.5	36
31	Short term predictions of occupancy in commercial buildings – Performance analysis for stochastic models and machine learning approaches. <i>Energy and Buildings</i> , <b>2018</b> , 158, 268-281	7	34
30	Nationwide HVAC energy-saving potential quantification for office buildings with occupant-centric controls in various climates. <i>Applied Energy</i> , <b>2020</b> , 279, 115727	10.7	34

29	An investigation on energy-related occupancy behavior for low-income residential buildings. <i>Science and Technology for the Built Environment</i> , <b>2015</b> , 21, 892-901	1.8	33
28	Model predictive control for building loads connected with a residential distribution grid. <i>Applied Energy</i> , <b>2018</b> , 230, 627-642	10.7	31
27	A systematic approach to estimating the effectiveness of multi-scale IAQ strategies for reducing the risk of airborne infection of SARS-CoV-2. <i>Building and Environment</i> , <b>2021</b> , 200, 107926	6.5	29
26	Occupancy-based buildings-to-grid integration framework for smart and connected communities. <i>Applied Energy</i> , <b>2018</b> , 219, 123-137	10.7	26
25	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
24	Buildings-to-Grid Integration Framework. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 1237-1249	10.7	17
23	Household appliance recognition through a Bayes classification model. <i>Sustainable Cities and Society</i> , <b>2019</b> , 46, 101393	10.1	14
22	Current practices and infrastructure for open data based research on occupant-centric design and operation of buildings. <i>Building and Environment</i> , <b>2020</b> , 177, 106848	6.5	13
21	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
20	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
19	Building occupancy forecasting: A systematic and critical review. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111345	10.7	12
18	Occupant-behavior driven appliance scheduling for residential buildings. <i>Building Simulation</i> , <b>2017</b> , 10, 917-931	3.9	11
17	Integrated energy performance modeling for a retail store building. <i>Building Simulation</i> , <b>2013</b> , 6, 283-295	3.9	11
16	Buildings-to-distribution-network integration for coordinated voltage regulation and building energy management via distributed resource flexibility. <i>Sustainable Cities and Society</i> , <b>2021</b> , 69, 102832	10.1	11
15	Energy-saving potential evaluation for primary schools with occupant-centric controls. <i>Applied Energy</i> , <b>2021</b> , 293, 116854	10.7	10
14	Airborne transmission of SARS-CoV-2 in indoor environments: A comprehensive review. <i>Science and Technology for the Built Environment</i> , 1-37	1.8	10
13	HVAC energy savings, thermal comfort and air quality for occupant-centric control through a side-by-side experimental study. <i>Applied Energy</i> , <b>2022</b> , 306, 117987	10.7	9
12	Sensing and Data Acquisition <b>2018</b> , 77-105		9

11	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
10	Development of a systematic procedure to establish customized shading behavior identification model. <i>Energy and Buildings</i> , <b>2021</b> , 239, 110793	7	4
9	Buildings-to-Grid Integration Framework <b>2018</b> ,		3
8	<b>2018</b> ,		3
7	From occupants to occupants: A review of the occupant information understanding for building HVAC occupant-centric control.. <i>Building Simulation</i> , <b>2021</b> , 15, 1-20	3.9	3
6	Review of onsite temperature and solar forecasting models to enable better building design and operations. <i>Building Simulation</i> , <b>2021</b> , 14, 885-907	3.9	2
5	Development of a testing and evaluation protocol for occupancy sensing technologies in building HVAC controls: A case study of representative people counting sensors. <i>Building and Environment</i> , <b>2022</b> , 208, 108610	6.5	1
4	Data-driven occupant modeling strategies and digital tools enabled by IEA EBC annex 79 <b>2018</b> ,		1
3	A guideline to document occupant behavior models for advanced building controls. <i>Building and Environment</i> , <b>2022</b> , 219, 109195	6.5	1
2	Quantifying the nationwide HVAC energy savings in large hotels: the role of occupant-centric controls. <i>Journal of Building Performance Simulation</i> , 1-21	2.8	0
1	Develop a New Approach to Evaluate Energy Savings, Thermal Comfort and IAQ from Occupant-Centric Building Controls. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2069, 012148	0.3	