

Bing Dong

List of Publications by Year in descending order

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49
papers

2,886
citations

172207

29
h-index

264894

42
g-index

49
all docs

49
docs citations

49
times ranked

2261
citing authors

#	ARTICLE	IF	CITATIONS
1	IEA EBC Annex 66: Definition and simulation of occupant behavior in buildings. Energy and Buildings, 2017, 156, 258-270.	3.1	296
2	A survey on energy consumption and energy usage behavior of households and residential building in urban China. Energy and Buildings, 2017, 148, 366-378.	3.1	249
3	A review of smart building sensing system for better indoor environment control. Energy and Buildings, 2019, 199, 29-46.	3.1	188
4	A real-time model predictive control for building heating and cooling systems based on the occupancy behavior pattern detection and local weather forecasting. Building Simulation, 2014, 7, 89-106.	3.0	181
5	Occupancy behavior based model predictive control for building indoor climateâ€”A critical review. Energy and Buildings, 2016, 129, 499-513.	3.1	157
6	A hybrid model approach for forecasting future residential electricity consumption. Energy and Buildings, 2016, 117, 341-351.	3.1	145
7	Modeling occupancy and behavior for better building design and operationâ€”A critical review. Building Simulation, 2018, 11, 899-921.	3.0	131
8	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. Building and Environment, 2020, 178, 106738.	3.0	129
9	Building energy and comfort management through occupant behaviour pattern detection based on a large-scale environmental sensor network. Journal of Building Performance Simulation, 2011, 4, 359-369.	1.0	105
10	Modeling and control of building-integrated microgrids for optimal energy management â€” A review. Applied Energy, 2019, 254, 113689.	5.1	105
11	A Hierarchical Approach Using Machine Learning Methods in Solar Photovoltaic Energy Production Forecasting. Energies, 2016, 9, 55.	1.6	87
12	Nationwide HVAC energy-saving potential quantification for office buildings with occupant-centric controls in various climates. Applied Energy, 2020, 279, 115727.	5.1	80
13	A systematic approach to estimating the effectiveness of multi-scale IAQ strategies for reducing the risk of airborne infection of SARS-CoV-2. Building and Environment, 2021, 200, 107926.	3.0	79
14	Coordinating the operations of smart buildings in smart grids. Applied Energy, 2018, 228, 2510-2525.	5.1	67
15	Market and behavior driven predictive energy management for residential buildings. Sustainable Cities and Society, 2018, 38, 723-735.	5.1	58
16	HVAC energy savings, thermal comfort and air quality for occupant-centric control through a side-by-side experimental study. Applied Energy, 2022, 306, 117987.	5.1	55
17	A new modeling approach for short-term prediction of occupancy in residential buildings. Building and Environment, 2017, 121, 277-290.	3.0	54
18	Model predictive control for building loads connected with a residential distribution grid. Applied Energy, 2018, 230, 627-642.	5.1	53

#	ARTICLE	IF	CITATIONS
19	Baseline building energy modeling and localized uncertainty quantification using Gaussian mixture models. <i>Energy and Buildings</i> , 2013, 65, 438-447.	3.1	51
20	Modelling urban-scale occupant behaviour, mobility, and energy in buildings: A survey. <i>Building and Environment</i> , 2020, 183, 106964.	3.0	48
21	Airborne transmission of SARS-CoV-2 in indoor environments: A comprehensive review. <i>Science and Technology for the Built Environment</i> , 2021, 27, 1331-1367.	0.8	44
22	Short term predictions of occupancy in commercial buildingsâ€”Performance analysis for stochastic models and machine learning approaches. <i>Energy and Buildings</i> , 2018, 158, 268-281.	3.1	43
23	An investigation on energy-related occupancy behavior for low-income residential buildings. <i>Science and Technology for the Built Environment</i> , 2015, 21, 892-901.	0.8	42
24	Building occupancy forecasting: A systematical and critical review. <i>Energy and Buildings</i> , 2021, 251, 111345.	3.1	41
25	Occupancy-based buildings-to-grid integration framework for smart and connected communities. <i>Applied Energy</i> , 2018, 219, 123-137.	5.1	38
26	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. <i>Applied Energy</i> , 2021, 293, 116856.	5.1	37
27	Buildings-to-Grid Integration Framework. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 1237-1249.	6.2	36
28	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.	5.1	32
29	Buildings-to-distribution-network integration for coordinated voltage regulation and building energy management via distributed resource flexibility. <i>Sustainable Cities and Society</i> , 2021, 69, 102832.	5.1	32
30	Household appliance recognition through a Bayes classification model. <i>Sustainable Cities and Society</i> , 2019, 46, 101393.	5.1	30
31	From occupants to occupants: A review of the occupant information understanding for building HVAC occupant-centric control. <i>Building Simulation</i> , 2022, 15, 913-932.	3.0	29
32	Current practices and infrastructure for open data based research on occupant-centric design and operation of buildings. <i>Building and Environment</i> , 2020, 177, 106848.	3.0	23
33	Energy-saving potential evaluation for primary schools with occupant-centric controls. <i>Applied Energy</i> , 2021, 293, 116854.	5.1	21
34	Occupant-behavior driven appliance scheduling for residential buildings. <i>Building Simulation</i> , 2017, 10, 917-931.	3.0	15
35	A guideline to document occupant behavior models for advanced building controls. <i>Building and Environment</i> , 2022, 219, 109195.	3.0	15
36	Integrated energy performance modeling for a retail store building. <i>Building Simulation</i> , 2013, 6, 283-295.	3.0	14

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37	Review of onsite temperature and solar forecasting models to enable better building design and operations. Building Simulation, 2021, 14, 885-907.	3.0	14
38	Sensing and Data Acquisition. , 2018, , 77-105.		12
39	Development of a testing and evaluation protocol for occupancy sensing technologies in building HVAC controls: A case study of representative people counting sensors. Building and Environment, 2022, 208, 108610.	3.0	11
40	Development of a systematic procedure to establish customized shading behavior identification model. Energy and Buildings, 2021, 239, 110793.	3.1	10
41	Exploring key factors impacting cooling usage patterns of Chinese urban household based on a large-scale questionnaire survey. Energy and Buildings, 2020, 214, 109885.	3.1	9
42	Quantifying the nationwide HVAC energy savings in large hotels: the role of occupant-centric controls. Journal of Building Performance Simulation, 2021, 14, 749-769.	1.0	8
43	Buildings-to-Grid Integration Framework. , 2018, , .		4
44	Impact of Occupancy-Based Buildings-to-Grid Integration on Frequency Regulation in Smart Grids. , 2018, , .		3
45	Documenting occupant models for building performance simulation: a state-of-the-art. Journal of Building Performance Simulation, 2022, 15, 634-655.	1.0	3
46	Evaluation of frequency regulation provision by commercial building HVAC systems. , 2017, , .		1
47	Data-driven occupant modeling strategies and digital tools enabled by IEA EBC annex 79. , 2018, , .		1
48	Develop a New Approach to Evaluate Energy Savings, Thermal Comfort and IAQ from Occupant-Centric Building Controls. Journal of Physics: Conference Series, 2021, 2069, 012148.	0.3	0
49	The 1st ACM international workshop on big data and machine learning for smart buildings and cities. , 2021, , .		0