

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.

59 papers	1,750 citations	21 h-index	41 g-index
62 ext. papers	2,167 ext. citations	6.5 avg, IF	5.61 L-index

#	Paper	IF	Citations
59	Review of building energy modeling for control and operation. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 517-537	16.2	319
58	A model-based fault detection and diagnostic methodology based on PCA method and wavelet transform. <i>Energy and Buildings</i> , 2014 , 68, 63-71	7	130
57	Simulating the human-building interaction: Development and validation of an agent-based model of office occupant behaviors. <i>Building and Environment</i> , 2015 , 88, 27-45	6.5	122
56	Reducing energy consumption in low income public housing: Interviewing residents about energy behaviors. <i>Applied Energy</i> , 2013 , 102, 1358-1370	10.7	91
55	Tracking the human-building interaction: A longitudinal field study of occupant behavior in air-conditioned offices. <i>Journal of Environmental Psychology</i> , 2015 , 42, 94-115	6.7	85
54	Diagnostic Bayesian networks for diagnosing air handling units faults [Part I: Faults in dampers, fans, filters and sensors. <i>Applied Thermal Engineering</i> , 2017 , 111, 1272-1286	5.8	84
53	Diagnostic Bayesian networks for diagnosing air handling units faults [Part II: Faults in coils and sensors. <i>Applied Thermal Engineering</i> , 2015 , 90, 145-157	5.8	79
52	Bayesian network based FDD strategy for variable air volume terminals. <i>Automation in Construction</i> , 2014 , 41, 106-118	9.6	71
51	A review of machine learning in building load prediction. <i>Applied Energy</i> , 2021 , 285, 116452	10.7	67
50	Building energy consumption on-line forecasting using physics based system identification. <i>Energy and Buildings</i> , 2014 , 82, 1-12	7	62
49	Developing a whole building cooling energy forecasting model for on-line operation optimization using proactive system identification. <i>Applied Energy</i> , 2016 , 164, 69-88	10.7	59
48	Modeling thermal comfort holistically: Bayesian estimation of thermal sensation, acceptability, and preference distributions for office building occupants. <i>Building and Environment</i> , 2013 , 69, 206-226	6.5	56
47	Application of pattern matching method for detecting faults in air handling unit system. <i>Automation in Construction</i> , 2014 , 43, 49-58	9.6	51
46	A systematic feature selection procedure for short-term data-driven building energy forecasting model development. <i>Energy and Buildings</i> , 2019 , 183, 428-442	7	49
45	An operation optimization and decision framework for a building cluster with distributed energy systems. <i>Applied Energy</i> , 2016 , 178, 98-109	10.7	48
44	A robust pattern recognition-based fault detection and diagnosis (FDD) method for chillers. <i>HVAC and R Research</i> , 2014 , 20, 798-809		41
43	Quantifying the humanBuilding interaction: Considering the active, adaptive occupant in building performance simulation. <i>Energy and Buildings</i> , 2016 , 117, 372-386	7	37

42	Sensor system design for building indoor air protection. <i>Building and Environment</i> , 2008 , 43, 1278-1285	6.5	36
41	Comparison of sensor systems designed using multizone, zonal, and CFD data for protection of indoor environments. <i>Building and Environment</i> , 2010 , 45, 1061-1071	6.5	24
40	Net-zero energy building clusters emulator for energy planning and operation evaluation. <i>Computers, Environment and Urban Systems</i> , 2017 , 62, 168-181	5.9	22
39	Absorption of solar energy in a room. <i>Solar Energy</i> , 2002 , 72, 283-297	6.8	22
38	Improving airflow measurement accuracy in VAV terminal units using flow conditioners. <i>Building and Environment</i> , 2014 , 71, 81-94	6.5	17
37	A model for the dynamic response of a cooling coil. <i>Energy and Buildings</i> , 2005 , 37, 1278-1289	7	17
36	A tool for evaluating fault detection and diagnostic methods for fan coil units. <i>Energy and Buildings</i> , 2017 , 136, 151-160	7	16
35	Development and validation of online models with parameter estimation for a building zone with VAV system. <i>Energy and Buildings</i> , 2007 , 39, 13-22	7	15
34	The selection of the most appropriate airflow model for designing indoor air sensor systems. <i>Building and Environment</i> , 2012 , 50, 34-43	6.5	14
33	Stability and accuracy of variable air volume box control at low flows. Part 1: Laboratory test setup and variable air volume sensor test. <i>HVAC and R Research</i> , 2014 , 20, 3-18		11
32	System identification and data fusion for on-line adaptive energy forecasting in virtual and real commercial buildings. <i>Energy and Buildings</i> , 2016 , 129, 227-237	7	11
31	Estimating building airflow using CO2 measurements from a distributed sensor network. <i>HVAC and R Research</i> , 2011 , 17, 344-365		10
30	Commercial building cooling energy forecasting using proactive system identification: A whole building experiment study. <i>Science and Technology for the Built Environment</i> , 2016 , 22, 674-691	1.8	9
29	Stability and accuracy of variable air volume box control at low flows. Part 2: Controller test, system test, and field test. <i>HVAC and R Research</i> , 2014 , 20, 19-35		8
28	Efficient and Robust Optimization for Building Energy Simulation. <i>Energy and Buildings</i> , 2016 , 122, 53-62	7	8
27	Development and Validation of Online Parameter Estimation for HVAC Systems. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2003 , 125, 324-330	2.3	7
26	2015 ,		6
25	Comparison of time-frequency-analysis techniques applied in building energy data noise cancellation for building load forecasting: A real-building case study. <i>Energy and Buildings</i> , 2021 , 231, 110592	7	6

24	Development and verification of the open source platform, HAM-Tools, for hygrothermal performance simulation of buildings using a stochastic approach. <i>Building Simulation</i> , 2020 , 13, 497-514	3.9	5
23	Active learning strategy for high fidelity short-term data-driven building energy forecasting. <i>Energy and Buildings</i> , 2021 , 244, 111026	7	5
22	A whole building fault detection using weather based pattern matching and feature based PCA method 2017 ,		4
21	Inverse estimation of indoor airflow patterns using singular value decomposition. <i>Applied Mathematical Modelling</i> , 2012 , 36, 2627-2641	4.5	4
20	Radiant cooling of an enclosure. <i>Energy Conversion and Management</i> , 2006 , 47, 229-252	10.6	3
19	An experimental study of energy consumption and thermal comfort for electric and hydronic reheats. <i>Energy and Buildings</i> , 2005 , 37, 203-214	7	3
18	Adaptive Energy Optimization Toward Net-Zero Energy Building Clusters. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016 , 138,	3	3
17	From occupants to occupants: A review of the occupant information understanding for building HVAC occupant-centric control.. <i>Building Simulation</i> , 2021 , 15, 1-20	3.9	3
16	Development and validation of adaptive optimal operation methodology for building HVAC systems 2004 ,		2
15	Energy Optimization in Net-Zero Energy Building Clusters 2014 ,		1
14	Whole building system fault detection based on weather pattern matching and PCA method 2017 ,		1
13	Building Energy Consumption On-Line Forecasting Using System Identification and Data Fusion 2014 ,		1
12	An Agent Based Simulation for Building Energy System Modeling 2010 ,		1
11	Real vs. simulated: Questions on the capability of simulated datasets on building fault detection for energy efficiency from a data-driven perspective. <i>Energy and Buildings</i> , 2022 , 259, 111872	7	1
10	Using Weather and Schedule based Pattern Matching and Feature based PCA for Whole Building Fault Detection [Part I Development of the Method. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 1-23	0.4	1
9	A holistic fault impact analysis of the high-performance sequences of operation for HVAC systems: Modelica-based case study in a medium-office building. <i>Energy and Buildings</i> , 2021 , 252, 111448	7	1
8	Utilizing commercial heating, ventilating, and air conditioning systems to provide grid services: A review. <i>Applied Energy</i> , 2021 , 307, 118133	10.7	0
7	A simulation-based evaluation of fan coil unit fault effects. <i>Energy and Buildings</i> , 2022 , 263, 112041	7	0

6	Evaluating the performance of an Inexact Newton method with a preconditioner for dynamic building system simulation. <i>Journal of Building Performance Simulation</i> , 2022 , 15, 112-127	2.8	o
5	A Cosine-based Correlation Information Entropy Approach for Building Automatic Fault Detection Baseline Construction. <i>Science and Technology for the Built Environment</i> , 1-16	1.8	o
4	Development and Validation of Online Models With Parameter Estimation for a Building Zone With VAV System 2004 , 863		
3	Partitioning Climate, Users, and Thermophysical Uncertainties from Building Energy Use: A Monte Carlo & ANOVA Approach. <i>Buildings</i> , 2022 , 12, 95	3.2	
2	Using Weather and Schedule based Pattern Matching and Feature based PCA for Whole Building Fault Detection [Part II Field Evaluation. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 1-16	0.4	
1	Development of a new reduced order model for predicting the energy savings of multi-ECM permutations. <i>Energy and Buildings</i> , 2019 , 182, 287-299	7	