

List of Publications by Year in  
Descending Order

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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.

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	Partitioning Climate, Users, and Thermophysical Uncertainties from Building Energy Use: A Monte Carlo & ANOVA Approach. <i>Buildings</i> , <b>2022</b> , 12, 95	3.2	
58	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> , <b>2022</b> , 259, 111872	7	1
57	A simulation-based evaluation of fan coil unit fault effects. <i>Energy and Buildings</i> , <b>2022</b> , 263, 112041	7	0
56	Evaluating the performance of an Inexact Newton method with a preconditioner for dynamic building system simulation. <i>Journal of Building Performance Simulation</i> , <b>2022</b> , 15, 112-127	2.8	0
55	Utilizing commercial heating, ventilating, and air conditioning systems to provide grid services: A review. <i>Applied Energy</i> , <b>2021</b> , 307, 118133	10.7	0
54	A review of machine learning in building load prediction. <i>Applied Energy</i> , <b>2021</b> , 285, 116452	10.7	67
53	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> , <b>2021</b> , 231, 110592	7	6
52	Active learning strategy for high fidelity short-term data-driven building energy forecasting. <i>Energy and Buildings</i> , <b>2021</b> , 244, 111026	7	5
51	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> , <b>2021</b> , 252, 111448	7	1
50	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
49	Development and verification of the open source platform, HAM-Tools, for hygrothermal performance simulation of buildings using a stochastic approach. <i>Building Simulation</i> , <b>2020</b> , 13, 497-514	3.9	5
48	A systematic feature selection procedure for short-term data-driven building energy forecasting model development. <i>Energy and Buildings</i> , <b>2019</b> , 183, 428-442	7	49
47	Development of a new reduced order model for predicting the energy savings of multi-ECM permutations. <i>Energy and Buildings</i> , <b>2019</b> , 182, 287-299	7	
46	Diagnostic Bayesian networks for diagnosing air handling units faults [part I: Faults in dampers, fans, filters and sensors. <i>Applied Thermal Engineering</i> , <b>2017</b> , 111, 1272-1286	5.8	84
45	A tool for evaluating fault detection and diagnostic methods for fan coil units. <i>Energy and Buildings</i> , <b>2017</b> , 136, 151-160	7	16
44	Net-zero energy building clusters emulator for energy planning and operation evaluation. <i>Computers, Environment and Urban Systems</i> , <b>2017</b> , 62, 168-181	5.9	22
43	Whole building system fault detection based on weather pattern matching and PCA method <b>2017</b> ,		1

42	A whole building fault detection using weather based pattern matching and feature based PCA method <b>2017</b> ,		4
41	Quantifying the humanBuilding interaction: Considering the active, adaptive occupant in building performance simulation. <i>Energy and Buildings</i> , <b>2016</b> , 117, 372-386	7	37
40	Developing a whole building cooling energy forecasting model for on-line operation optimization using proactive system identification. <i>Applied Energy</i> , <b>2016</b> , 164, 69-88	10.7	59
39	An operation optimization and decision framework for a building cluster with distributed energy systems. <i>Applied Energy</i> , <b>2016</b> , 178, 98-109	10.7	48
38	Adaptive Energy Optimization Toward Net-Zero Energy Building Clusters. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2016</b> , 138,	3	3
37	Commercial building cooling energy forecasting using proactive system identification: A whole building experiment study. <i>Science and Technology for the Built Environment</i> , <b>2016</b> , 22, 674-691	1.8	9
36	Efficient and Robust Optimization for Building Energy Simulation. <i>Energy and Buildings</i> , <b>2016</b> , 122, 53-627		8
35	System identification and data fusion for on-line adaptive energy forecasting in virtual and real commercial buildings. <i>Energy and Buildings</i> , <b>2016</b> , 129, 227-237	7	11
34	Diagnostic Bayesian networks for diagnosing air handling units faults [Part II: Faults in coils and sensors. <i>Applied Thermal Engineering</i> , <b>2015</b> , 90, 145-157	5.8	79
33	Tracking the human-building interaction: A longitudinal field study of occupant behavior in air-conditioned offices. <i>Journal of Environmental Psychology</i> , <b>2015</b> , 42, 94-115	6.7	85
32	<b>2015</b> ,		6
31	Simulating the human-building interaction: Development and validation of an agent-based model of office occupant behaviors. <i>Building and Environment</i> , <b>2015</b> , 88, 27-45	6.5	122
30	A model-based fault detection and diagnostic methodology based on PCA method and wavelet transform. <i>Energy and Buildings</i> , <b>2014</b> , 68, 63-71	7	130
29	Building energy consumption on-line forecasting using physics based system identification. <i>Energy and Buildings</i> , <b>2014</b> , 82, 1-12	7	62
28	Bayesian network based FDD strategy for variable air volume terminals. <i>Automation in Construction</i> , <b>2014</b> , 41, 106-118	9.6	71
27	Application of pattern matching method for detecting faults in air handling unit system. <i>Automation in Construction</i> , <b>2014</b> , 43, 49-58	9.6	51
26	Review of building energy modeling for control and operation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 37, 517-537	16.2	319
25	Energy Optimization in Net-Zero Energy Building Clusters <b>2014</b> ,		1

24	Building Energy Consumption On-Line Forecasting Using System Identification and Data Fusion <b>2014</b> ,		1
23	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> , <b>2014</b> , 20, 19-35		8
22	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> , <b>2014</b> , 20, 3-18		11
21	A robust pattern recognition-based fault detection and diagnosis (FDD) method for chillers. <i>HVAC and R Research</i> , <b>2014</b> , 20, 798-809		41
20	Improving airflow measurement accuracy in VAV terminal units using flow conditioners. <i>Building and Environment</i> , <b>2014</b> , 71, 81-94	6.5	17
19	Modeling thermal comfort holistically: Bayesian estimation of thermal sensation, acceptability, and preference distributions for office building occupants. <i>Building and Environment</i> , <b>2013</b> , 69, 206-226	6.5	56
18	Reducing energy consumption in low income public housing: Interviewing residents about energy behaviors. <i>Applied Energy</i> , <b>2013</b> , 102, 1358-1370	10.7	91
17	The selection of the most appropriate airflow model for designing indoor air sensor systems. <i>Building and Environment</i> , <b>2012</b> , 50, 34-43	6.5	14
16	Inverse estimation of indoor airflow patterns using singular value decomposition. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 2627-2641	4.5	4
15	Estimating building airflow using CO2 measurements from a distributed sensor network. <i>HVAC and R Research</i> , <b>2011</b> , 17, 344-365		10
14	An Agent Based Simulation for Building Energy System Modeling <b>2010</b> ,		1
13	Comparison of sensor systems designed using multizone, zonal, and CFD data for protection of indoor environments. <i>Building and Environment</i> , <b>2010</b> , 45, 1061-1071	6.5	24
12	Sensor system design for building indoor air protection. <i>Building and Environment</i> , <b>2008</b> , 43, 1278-1285	6.5	36
11	Development and validation of online models with parameter estimation for a building zone with VAV system. <i>Energy and Buildings</i> , <b>2007</b> , 39, 13-22	7	15
10	Radiant cooling of an enclosure. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 229-252	10.6	3
9	An experimental study of energy consumption and thermal comfort for electric and hydronic reheats. <i>Energy and Buildings</i> , <b>2005</b> , 37, 203-214	7	3
8	A model for the dynamic response of a cooling coil. <i>Energy and Buildings</i> , <b>2005</b> , 37, 1278-1289	7	17
7	Development and Validation of Online Models With Parameter Estimation for a Building Zone With VAV System <b>2004</b> , 863		

6	Development and validation of adaptive optimal operation methodology for building HVAC systems <b>2004</b> ,		2
5	Development and Validation of Online Parameter Estimation for HVAC Systems. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2003</b> , 125, 324-330	2.3	7
4	Absorption of solar energy in a room. <i>Solar Energy</i> , <b>2002</b> , 72, 283-297	6.8	22
3	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	
2	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
1	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	0