Paul Raftery

List of Publications by Year
in descending order

41 papers	**2,121** citations	361045 **20** h-index	329751 **37** g-index
43 all docs	**43** docs citations	**43** times ranked	**1961** citing authors

#	Article	IF	Citations
1	A review of methods to match building energy simulation models to measured data. Renewable and Sustainable Energy Reviews, 2014, 37, 123-141.	8.2	544
2	Personal comfort models: Predicting individuals' thermal preference using occupant heating and cooling behavior and machine learning. Building and Environment, 2018, 129, 96-106.	3.0	303
3	Calibrating whole building energy models: An evidence-based methodology. Energy and Buildings, 2011, 43, 2356-2364.	3.1	211
4	Calibrating whole building energy models: Detailed case study using hourly measured data. Energy and Buildings, 2011, 43, 3666-3679.	3.1	158
5	The Building Data Genome Project 2, energy meter data from the ASHRAE Great Energy Predictor III competition. Scientific Data, 2020, 7, 368.	2.4	82
6	Occupant comfort and behavior: High-resolution data from a 6-month field study of personal comfort systems with 37 real office workers. Building and Environment, 2019, 148, 348-360.	3.0	79
7	Review of automated fault detection and diagnostic tools in air handling units. Energy Efficiency, 2014, 7, 335-351.	1.3	57
8	Comparison of mean radiant and air temperatures in mechanically-conditioned commercial buildings from over 200,000 field and laboratory measurements. Energy and Buildings, 2020, 206, 109582.	3.1	52
9	Development and alpha testing of a cloud based automated fault detection and diagnosis tool for Air Handling Units. Automation in Construction, 2014, 39, 70-83.	4.8	47
10	Comparing temperature and acoustic satisfaction in 60 radiant and all-air buildings. Building and Environment, 2017, 126, 431-441.	3.0	46
11	Side-by-side laboratory comparison of space heat extraction rates and thermal energy use for radiant and all-air systems. Energy and Buildings, 2018, 176, 139-150.	3.1	38
12	Comparative analysis of the AHU InFO fault detection and diagnostic expert tool for AHUs with APAR. Energy Efficiency, 2015, 8, 299-322.	1.3	35
13	Ceiling fan air speeds around desks and office partitions. Building and Environment, 2017, 124, 412-440.	3.0	35
14	Ceiling fans: Predicting indoor air speeds based on full scale laboratory measurements. Building and Environment, 2019, 155, 210-223.	3.0	34
15	Performance analysis of an integrated UFAD and radiant hydronic slab system. Applied Energy, 2012, 90, 250-257.	5.1	29
16	Effects of furniture and contents on peak cooling load. Energy and Buildings, 2014, 85, 445-457.	3.1	29
17	Full scale laboratory experiment on the cooling capacity of a radiant floor system. Energy and Buildings, 2018, 170, 134-144.	3.1	29
18	Evaluation of a cost-responsive supply air temperature reset strategy in an office building. Energy and Buildings, 2018, 158, 356-370.	3.1	24

#	Article	IF	Citations
19	Measuring 3D indoor air velocity via an inexpensive low-power ultrasonic anemometer. Energy and Buildings, 2020, 211, 109805.	3.1	23
20	Effect of acoustical clouds coverage and air movement on radiant chilled ceiling cooling capacity. Energy and Buildings, 2018, 158, 939-949.	3.1	21
21	Side-by-side laboratory comparison of radiant and all-air cooling: How natural ventilation cooling and heat gain characteristics impact space heat extraction rates and daily thermal energy use. Energy and Buildings, 2019, 200, 68-85.	3.1	21
22	Ceiling fans in commercial buildings: In situ airspeeds & practitioner experience. Building and Environment, 2019, 147, 241-257.	3.0	21
23	Time-averaged ventilation for optimized control of variable-air-volume systems. Energy and Buildings, 2017, 139, 465-475.	3.1	20
24	Ceiling-fan-integrated air conditioning: Airflow and temperature characteristics of a sidewall-supply jet interacting with a ceiling fan. Building and Environment, 2020, 171, 106660.	3.0	20
25	Key factors methodologyâ€"A novel support to the decision making process of the building energy manager in defining optimal operation strategies. Energy and Buildings, 2012, 49, 158-163.	3.1	19
26	Environmental and energy performance assessment of buildings using scenario modelling and fuzzy analytic network process. Applied Energy, 2019, 255, 113788.	5.1	18
27	Cooling capacity and acoustic performance of radiant slab systems with free-hanging acoustical clouds. Energy and Buildings, 2017, 138, 676-686.	3.1	17
28	Development of Wholeâ€Building Energy Models for Detailed Energy Insights of a Large Office Building with Green Certification Rating in Singapore. Energy Technology, 2018, 6, 84-93.	1.8	15
29	Shepherding Metadata Through the Building Lifecycle. , 2020, , .		14
30	Performance analysis of pulsed flow control method for radiant slab system. Building and Environment, 2018, 127, 107-119.	3.0	13
31	Laboratory testing of a displacement ventilation diffuser for underfloor air distribution systems. Energy and Buildings, 2015, 108, 82-91.	3.1	12
32	Mortar. ACM Transactions on Sensor Networks, 2020, 16, 1-31.	2.3	12
33	Detailed measured air speed distribution in four commercial buildings with ceiling fans. Building and Environment, 2021, 200, 107979.	3.0	9
34	Cooling energy savings and occupant feedback in a two year retrofit evaluation of 99 automated ceiling fans staged with air conditioning. Energy and Buildings, 2021, 251, 111319.	3.1	9
35	Mortar. , 2018, , .		8
36	Poster Abstract. , 2015, , .		4

#	Article	IF	Citations
37	Quantifying energy losses in hot water reheat systems. Energy and Buildings, 2018, 179, 183-199.	3.1	4
38	Query relaxation for portable brick-based applications. , 2021, , .		3
39	Ceiling-fan-integrated air-conditioning: thermal comfort evaluations. Buildings and Cities, 2021, 2, .	1.1	2
40	Lessons Learned from Field Monitoring of Two Radiant Slab Office Buildings in California. Energy Procedia, 2015, 78, 3031-3036.	1.8	1
41	Interactive Metadata Integration with Brick. , 2020, , .		1