

# Clayton Miller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2962992/publications.pdf>

Version: 2024-02-01

51  
papers

1,662  
citations

257101

24  
h-index

288905

40  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Personal thermal comfort models using digital twins: Preference prediction with BIM-extracted spatial-temporal proximity data from Build2Vec. <i>Building and Environment</i> , 2022, 207, 108532.	3.0	35
2	BEEM: Data-driven building energy benchmarking for Singapore. <i>Energy and Buildings</i> , 2022, 260, 111869.	3.1	23
3	Using Google Trends as a proxy for occupant behavior to predict building energy consumption. <i>Applied Energy</i> , 2022, 310, 118343.	5.1	16
4	Energy balances, thermal performance, and heat stress: Disentangling occupant behaviour and weather influences in a Dutch net-zero energy neighborhood. <i>Energy and Buildings</i> , 2022, 263, 112020.	3.1	9
5	Fifty shades of grey: Automated stochastic model identification of building heat dynamics. <i>Energy and Buildings</i> , 2022, 266, 112095.	3.1	16
6	Targeting occupant feedback using digital twins: Adaptive spatial-temporal thermal preference sampling to optimize personal comfort models. <i>Building and Environment</i> , 2022, 218, 109090.	3.0	15
7	Limitations of machine learning for building energy prediction: ASHRAE Great Energy Predictor III Kaggle competition error analysis. <i>Science and Technology for the Built Environment</i> , 2022, 28, 610-627.	0.8	12
8	ALDI++: Automatic and parameter-less discord and outlier detection for building energy load profiles. <i>Energy and Buildings</i> , 2022, 265, 112096.	3.1	3
9	Low-Cost Thermohygrometers to Assess Thermal Comfort in the Built Environment: A Laboratory Evaluation of Their Measurement Performance. <i>Buildings</i> , 2022, 12, 579.	1.4	6
10	Infrared thermography in the built environment: A multi-scale review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 165, 112540.	8.2	33
11	Islands of misfit buildings: Detecting uncharacteristic electricity use behavior using load shape clustering. <i>Building Simulation</i> , 2021, 14, 119-130.	3.0	23
12	Project Coolbit: can your watch predict heat stress and thermal comfort sensation?. <i>Environmental Research Letters</i> , 2021, 16, 034031.	2.2	44
13	Environmental Exposures in Singapore Schools: An Ecological Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1843.	1.2	3
14	Uncertainty Matters: Bayesian Probabilistic Forecasting for Residential Smart Meter Prediction, Segmentation, and Behavioral Measurement and Verification. <i>Energies</i> , 2021, 14, 1481.	1.6	10
15	Review of machine learning techniques for mosquito control in urban environments. <i>Ecological Informatics</i> , 2021, 61, 101241.	2.3	34
16	Data science for building energy efficiency: A comprehensive text-mining driven review of scientific literature. <i>Energy and Buildings</i> , 2021, 242, 110885.	3.1	31
17	Data mining cubes for buildings, a generic framework for multidimensional analytics of building performance data. <i>Energy and Buildings</i> , 2021, 248, 111195.	3.1	11
18	Operational characteristics of residential air conditioners with temporally granular remote thermographic imaging. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
19	Longitudinal personal thermal comfort preference data in the wild. , 2021, , .		4
20	The Internet-of-Buildings (IoB) â€” Digital twin convergence of wearable and IoT data with GIS/BIM. Journal of Physics: Conference Series, 2021, 2042, 012041.	0.3	21
21	Fifty shades of black. , 2021, , .		2
22	Design with Comfort: Expanding the psychrometric chart with radiation and convection dimensions. Energy and Buildings, 2020, 209, 109591.	3.1	24
23	SynCity: Using open data to create a synthetic city of hourly building energy estimates by integrating data-driven and physics-based methods. Applied Energy, 2020, 280, 115981.	5.1	52
24	The ASHRAE Great Energy Predictor III competition: Overview and results. Science and Technology for the Built Environment, 2020, 26, 1427-1447.	0.8	54
25	EnergyStar++: Towards more accurate and explanatory building energy benchmarking. Applied Energy, 2020, 276, 115413.	5.1	83
26	Spacematch: Using Environmental Preferences to Match Occupants to Suitable Activity-Based Workspaces. Frontiers in Built Environment, 2020, 6, .	1.2	24
27	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
28	Humans-as-a-Sensor for Buildingsâ€”Intensive Longitudinal Indoor Comfort Models. Buildings, 2020, 10, 174.	1.4	69
29	Bayesian calibration at the urban scale: a case study on a large residential heating demand application in Amsterdam. Journal of Building Performance Simulation, 2020, 13, 347-361.	1.0	31
30	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
31	Balancing thermal comfort datasets. , 2020, , .		13
32	What's in the box?! Towards explainable machine learning applied to non-residential building smart meter classification. Energy and Buildings, 2019, 199, 523-536.	3.1	36
33	More Buildings Make More Generalizable Modelsâ€”Benchmarking Prediction Methods on Open Electrical Meter Data. Machine Learning and Knowledge Extraction, 2019, 1, 974-993.	3.2	26
34	The SDE4 Learning Trail: Crowdsourcing occupant comfort feedback at a net-zero energy building. Journal of Physics: Conference Series, 2019, 1343, 012141.	0.3	16
35	Is your clock-face cozie? A smartwatch methodology for the in-situ collection of occupant comfort data. Journal of Physics: Conference Series, 2019, 1343, 012145.	0.3	40
36	Apples or oranges? Identification of fundamental load shape profiles for benchmarking buildings using a large and diverse dataset. Applied Energy, 2019, 236, 1280-1295.	5.1	61

#	ARTICLE	IF	CITATIONS
37	A Cyber-Physical Middleware Platform for Buildings in Smart Cities. , 2019, , 645-652.		1
38	Towards Class-Balancing Human Comfort Datasets with GANs. , 2019, , .		9
39	A review of unsupervised statistical learning and visual analytics techniques applied to performance analysis of non-residential buildings. Renewable and Sustainable Energy Reviews, 2018, 81, 1365-1377.	8.2	109
40	Comparing the indoor environmental quality of a displacement ventilation and passive chilled beam application to conventional air-conditioning in the Tropics. Building and Environment, 2018, 130, 128-142.	3.0	22
41	Urban and building multiscale co-simulation: case study implementations on two university campuses. Journal of Building Performance Simulation, 2018, 11, 309-321.	1.0	40
42	Mining electrical meter data to predict principal building use, performance class, and operations strategy for hundreds of non-residential buildings. Energy and Buildings, 2017, 156, 360-373.	3.1	44
43	The Building Data Genome Project: An open, public data set from non-residential building electrical meters. Energy Procedia, 2017, 122, 439-444.	1.8	114
44	Unsupervised load shape clustering for urban building performance assessment. Energy Procedia, 2017, 122, 229-234.	1.8	11
45	Predicting success of energy savings interventions and industry type using smart meter and retrofit data from thousands of non-residential buildings. , 2017, , .		3
46	Energy Storage for PV-Driven Air-Conditioning for an Off-Grid Resort “ A Case Study. , 2017, , .		4
47	Automated daily pattern filtering of measured building performance data. Automation in Construction, 2015, 49, 1-17.	4.8	137
48	Balancing envelope and heating system parameters for zero emissions retrofit using building sensor data. Applied Energy, 2014, 131, 56-66.	5.1	50
49	BubbleZERO“Design, Construction and Operation of a Transportable Research Laboratory for Low Exergy Building System Evaluation in the Tropics. Energies, 2013, 6, 4551-4571.	1.6	19
50	A Data-Driven Load Shape Profile Based Building Benchmarking: Comparing Doe Reference Buildings With A Large Metering Dataset. , 0, , .		0
51	Twenty Years of Building Performance Analysis Trends: A Topic Modeling Analysis of the Bldg-Sim Email List Archive. , 0, , .		0