

Joshua New

List of Publications by Year in descending order

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31
papers

764
citations

840776

11
h-index

642732

23
g-index

39
all docs

39
docs citations

39
times ranked

912
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting future hourly residential electrical consumption: A machine learning case study. Energy and Buildings, 2012, 49, 591-603.	6.7	295
2	Evaluation of weather datasets for building energy simulation. Energy and Buildings, 2012, 49, 109-118.	6.7	90
3	Evaluation of "Autotune" calibration against manual calibration of building energy models. Applied Energy, 2016, 182, 115-134.	10.1	65
4	Constructing large scale surrogate models from big data and artificial intelligence. Applied Energy, 2017, 202, 685-699.	10.1	48
5	Comparison of building energy use data between the United States and China. Energy and Buildings, 2014, 78, 165-175.	6.7	46
6	Understanding the long-term effects of environmental exposure on roof reflectance in California. Construction and Building Materials, 2012, 26, 516-526.	7.2	29
7	Empirical validation of building energy modeling for multi-zones commercial buildings in cooling season. Applied Energy, 2020, 261, 114374.	10.1	23
8	Comparison of software models for energy savings from cool roofs. Energy and Buildings, 2016, 114, 130-135.	6.7	20
9	Calibrating building energy models using supercomputer trained machine learning agents. Concurrency Computation Practice and Experience, 2014, 26, 2122-2133.	2.2	19
10	Impacts of the morphology of new neighborhoods on microclimate and building energy. Renewable and Sustainable Energy Reviews, 2020, 133, 110030.	16.4	13
11	Model predictive control for active insulation in building envelopes. Energy and Buildings, 2022, 267, 112108.	6.7	13
12	Supercomputer assisted generation of machine learning agents for the calibration of building energy models. , 2013, , .		11
13	Scalable tuning of building models to hourly data. Energy, 2015, 84, 493-502.	8.8	9
14	Machine Learning Techniques Applied to Sensor Data Correction in Building Technologies. , 2013, , .		8
15	Probabilistic reliability assessment and case studies for predicted energy savings in residential buildings. Energy and Buildings, 2020, 209, 109658.	6.7	8
16	Dataset of low global warming potential refrigerant refrigeration system for fault detection and diagnostics. Scientific Data, 2021, 8, 144.	5.3	8
17	Potential Energy, Demand, Emissions, and Cost Savings Distributions for Buildings in a Utility's Service Area. Energies, 2021, 14, 132.	3.1	8
18	Simulation and big data challenges in tuning building energy models. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
19	Empirical Modeling of Direct Expansion (DX) Cooling System for Multiple Research Use Cases. Sustainability, 2020, 12, 8738.	3.2	6
20	Approximate I-Fold Cross-Validation with Least Squares SVM and Kernel Ridge Regression. , 2013, , .		5
21	Power Grid Simulation Testbed for Transactive Energy Management Systems. Sustainability, 2020, 12, 4402.	3.2	5
22	Dynamic Visualization of Coexpression in Systems Genetics Data. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1081-1095.	4.4	4
23	Provenance in sensor data management. Communications of the ACM, 2014, 57, 55-62.	4.5	4
24	Energy and Economics Analyses of Condenser Evaporative Precooling for Various Climates, Buildings and Refrigerants. Energies, 2019, 12, 2079.	3.1	4
25	Estimating building simulation parameters via Bayesian structure learning. , 2013, , .		2
26	A Process for Defining Prototype Building Models: Courthouse Case Study for U.S. Commercial Energy. Energies, 2019, 12, 4020.	3.1	2
27	Quality Control Methods for Advanced Metering Infrastructure Data. Smart Cities, 2021, 4, 195-203.	9.4	2
28	Characterization of the indoor near-field aerosol transmission in a model commercial office building. International Communications in Heat and Mass Transfer, 2021, 130, 105745.	5.6	2
29	Autonomous correction of sensor data applied to building technologies using filtering methods. , 2013, , .		1
30	A Data-Driven Approach to Nation-Scale Building Energy Modeling. , 2021, , .		1
31	Characterization of the indoor far-field aerosol transmission in a model commercial office building. International Communications in Heat and Mass Transfer, 2022, 130, 105744.	5.6	0