Kaiyu Sun

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5564454/publications.pdf

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26 papers	1,337 citations	393982 19 h-index	610482 24 g-index
26 all docs	26 docs citations	26 times ranked	1164 citing authors

#	Article	IF	Citations
1	A framework for quantifying the impact of occupant behavior on energy savings of energy conservation measures. Energy and Buildings, 2017, 146, 383-396.	3.1	145
2	Commercial Building Energy Saver: An energy retrofit analysis toolkit. Applied Energy, 2015, 159, 298-309.	5.1	126
3	Building simulation: Ten challenges. Building Simulation, 2018, 11, 871-898.	3.0	112
4	Stochastic modeling of overtime occupancy and its application in building energy simulation and calibration. Building and Environment, 2014, 79, 1-12.	3.0	98
5	Comparative study of the cooling energy performance of variable refrigerant flow systems and variable air volume systems in office buildings. Applied Energy, 2016, 183, 725-736.	5.1	87
6	A simulation approach to estimate energy savings potential of occupant behavior measures. Energy and Buildings, 2017, 136, 43-62.	3.1	87
7	A novel stochastic modeling method to simulate cooling loads in residential districts. Applied Energy, 2017, 206, 134-149.	5.1	79
8	A pattern-based automated approach to building energy model calibration. Applied Energy, 2016, 165, 214-224.	5.1	78
9	Development and validation of a new variable refrigerant flow system model in EnergyPlus. Energy and Buildings, 2016, 117, 399-411.	3.1	62
10	Translating climate change and heating system electrification impacts on building energy use to future greenhouse gas emissions and electric grid capacity requirements in California. Applied Energy, 2018, 225, 522-534.	5.1	59
11	Advanced Building Control via Deep Reinforcement Learning. Energy Procedia, 2019, 158, 6158-6163.	1.8	56
12	Italian prototype building models for urban scale building performance simulation. Building and Environment, 2021, 192, 107590.	3.0	53
13	Nexus of thermal resilience and energy efficiency in buildings: A case study of a nursing home. Building and Environment, 2020, 177, 106842.	3.0	40
14	Urban microclimate and its impact on building performance: A case study of San Francisco. Urban Climate, 2021, 38, 100871.	2.4	35
15	A novel Variable Refrigerant Flow (VRF) heat recovery system model: Development and validation. Energy and Buildings, 2018, 168, 399-412.	3.1	34
16	Quantifying the benefits of a building retrofit using an integrated system approach: A case study. Energy and Buildings, 2018, 159, 332-345.	3.1	33
17	Assessment of occupant-behavior-based indoor air quality and its impacts on human exposure risk: A case study based on the wildfires in Northern California. Science of the Total Environment, 2019, 686, 1251-1261.	3.9	28
18	Passive cooling designs to improve heat resilience of homes in underserved and vulnerable communities. Energy and Buildings, 2021, 252, 111383.	3.1	26

#	Article	IF	Citations
19	Key issues and novel optimization approaches of industrial waste heat recovery in district heating systems. Energy, 2019, 188, 116005.	4.5	23
20	Investigation of pre-cooling as a recommended measure to improve residential buildingsâ€™ thermal resilience during heat waves. Building and Environment, 2022, 210, 108694.	3.0	20
21	Spatial distribution of internal heat gains: A probabilistic representation and evaluation of its influence on cooling equipment sizing in large office buildings. Energy and Buildings, 2017, 139, 407-416.	3.1	19
22	Robustness of energy performance of Zero-Net-Energy (ZNE) homes. Energy and Buildings, 2020, 224, 110251.	3.1	17
23	Application and evaluation of a pattern-based building energy model calibration method using public building datasets. Building Simulation, 2022, 15, 1385-1400.	3.0	10
24	Large scale energy analysis and renovation strategies for social housing in the historic city of Venice. Sustainable Energy Technologies and Assessments, 2022, 52, 102041.	1.7	7
25	Developing quantitative insights on building occupant behaviour: Supporting modelling tools and datasets. , 2020, , 283-319.		2
26	Visualizing Urban Microclimate and Quantifying its Impact on Building Energy Use in San Francisco. , 2019, , .		1