

Kaiyu Sun

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,337
citations

394421
19
h-index

610901
24
g-index

26
all docs

26
docs citations

26
times ranked

1164
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of pre-cooling as a recommended measure to improve residential buildings' thermal resilience during heat waves. Building and Environment, 2022, 210, 108694.	6.9	20
2	Large scale energy analysis and renovation strategies for social housing in the historic city of Venice. Sustainable Energy Technologies and Assessments, 2022, 52, 102041.	2.7	7
3	Application and evaluation of a pattern-based building energy model calibration method using public building datasets. Building Simulation, 2022, 15, 1385-1400.	5.6	10
4	Italian prototype building models for urban scale building performance simulation. Building and Environment, 2021, 192, 107590.	6.9	53
5	Urban microclimate and its impact on building performance: A case study of San Francisco. Urban Climate, 2021, 38, 100871.	5.7	35
6	Passive cooling designs to improve heat resilience of homes in underserved and vulnerable communities. Energy and Buildings, 2021, 252, 111383.	6.7	26
7	Developing quantitative insights on building occupant behaviour: Supporting modelling tools and datasets. , 2020, , 283-319.		2
8	Nexus of thermal resilience and energy efficiency in buildings: A case study of a nursing home. Building and Environment, 2020, 177, 106842.	6.9	40
9	Robustness of energy performance of Zero-Net-Energy (ZNE) homes. Energy and Buildings, 2020, 224, 110251.	6.7	17
10	Advanced Building Control via Deep Reinforcement Learning. Energy Procedia, 2019, 158, 6158-6163.	1.8	56
11	Key issues and novel optimization approaches of industrial waste heat recovery in district heating systems. Energy, 2019, 188, 116005.	8.8	23
12	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.	8.0	28
13	Visualizing Urban Microclimate and Quantifying its Impact on Building Energy Use in San Francisco. , 2019, , .		1
14	Building simulation: Ten challenges. Building Simulation, 2018, 11, 871-898.	5.6	112
15	A novel Variable Refrigerant Flow (VRF) heat recovery system model: Development and validation. Energy and Buildings, 2018, 168, 399-412.	6.7	34
16	Quantifying the benefits of a building retrofit using an integrated system approach: A case study. Energy and Buildings, 2018, 159, 332-345.	6.7	33
17	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.	10.1	59
18	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.	6.7	19

#	ARTICLE	IF	CITATIONS
19	A framework for quantifying the impact of occupant behavior on energy savings of energy conservation measures. Energy and Buildings, 2017, 146, 383-396.	6.7	145
20	A simulation approach to estimate energy savings potential of occupant behavior measures. Energy and Buildings, 2017, 136, 43-62.	6.7	87
21	A novel stochastic modeling method to simulate cooling loads in residential districts. Applied Energy, 2017, 206, 134-149.	10.1	79
22	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.	10.1	87
23	A pattern-based automated approach to building energy model calibration. Applied Energy, 2016, 165, 214-224.	10.1	78
24	Development and validation of a new variable refrigerant flow system model in EnergyPlus. Energy and Buildings, 2016, 117, 399-411.	6.7	62
25	Commercial Building Energy Saver: An energy retrofit analysis toolkit. Applied Energy, 2015, 159, 298-309.	10.1	126
26	Stochastic modeling of overtime occupancy and its application in building energy simulation and calibration. Building and Environment, 2014, 79, 1-12.	6.9	98