

Dahai Qi

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

656
citations

516710

16
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

339
citing authors

#	ARTICLE	IF	CITATIONS
1	Resilient cooling of buildings to protect against heat waves and power outages: Key concepts and definition. <i>Energy and Buildings</i> , 2021, 239, 110869.	6.7	83
2	Resilient cooling strategies – A critical review and qualitative assessment. <i>Energy and Buildings</i> , 2021, 251, 111312.	6.7	68
3	Experimental study on the flow characteristics of air curtains at building entrances. <i>Building and Environment</i> , 2016, 105, 225-235.	6.9	58
4	Optimal control of high-rise building mechanical ventilation system for achieving low risk of COVID-19 transmission and ventilative cooling. <i>Sustainable Cities and Society</i> , 2021, 74, 103256.	10.4	45
5	An analytical model of heat and mass transfer through non-adiabatic high-rise shafts during fires. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 585-594.	4.8	43
6	Parametric study of air curtain door aerodynamics performance based on experiments and numerical simulations. <i>Building and Environment</i> , 2018, 129, 65-73.	6.9	39
7	Wind effects on air curtain performance at building entrances. <i>Building and Environment</i> , 2019, 151, 75-87.	6.9	38
8	A Review of High-Rise Ventilation for Energy Efficiency and Safety. <i>Sustainable Cities and Society</i> , 2020, 54, 101971.	10.4	31
9	Comparing methods of modeling air infiltration through building entrances and their impact on building energy simulations. <i>Energy and Buildings</i> , 2017, 138, 579-590.	6.7	28
10	Evaluating wind-driven natural ventilation potential for early building design. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 182, 160-169.	3.9	26
11	Assessing dynamic efficiency of air curtain in reducing whole building annual energy usage. <i>Building Simulation</i> , 2017, 10, 497-507.	5.6	22
12	A state-of-the-art review of fire safety of photovoltaic systems in buildings. <i>Journal of Cleaner Production</i> , 2021, 308, 127239.	9.3	22
13	Investigation of mechanical ventilation for cooling in high-rise buildings. <i>Energy and Buildings</i> , 2020, 228, 110440.	6.7	21
14	Machine learning-based cooling load prediction and optimal control for mechanical ventilative cooling in high-rise buildings. <i>Energy and Buildings</i> , 2021, 242, 110980.	6.7	21
15	The Effects of Non-uniform Temperature Distribution on Neutral Plane Level in Non-adiabatic High-Rise Shafts During Fires. <i>Fire Technology</i> , 2017, 53, 153-172.	3.0	20
16	Air curtain effectiveness rating based on aerodynamics. <i>Building and Environment</i> , 2020, 169, 106582.	6.9	19
17	Froude-Stanton modeling of heat and mass transfer in large vertical spaces of high-rise buildings. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 706-716.	4.8	13
18	Indoor thermal stratification and its statistical distribution. <i>Indoor Air</i> , 2019, 29, 347-363.	4.3	12

#	ARTICLE	IF	CITATIONS
19	Conceptualising a resilient cooling system: A socio-technical approach. <i>City and Environment Interactions</i> , 2021, 11, 100065.	4.2	12
20	Dimensionless analytical solutions for steady-state fire smoke spread through high-rise shaft. <i>Fire Safety Journal</i> , 2017, 93, 12-20.	3.1	10
21	Multizone modelling of a hybrid ventilated high-rise building based on full-scale measurements for predictive control. <i>Indoor and Built Environment</i> , 2020, 29, 496-507.	2.8	10
22	An exploratory study on road tunnel with semi-transparent photovoltaic canopy – From energy saving and fire safety perspectives. <i>Building Simulation</i> , 2022, 15, 537-548.	5.6	5
23	Fire safety of building integrated photovoltaic systems: Critical review for codes and standards. <i>Indoor and Built Environment</i> , 2023, 32, 25-43.	2.8	3
24	Numerical simulations of smoke spread during solar roof fires. <i>Building Simulation</i> , 2022, 15, 561-570.	5.6	1