

Naiping Gao

List of Publications by Citations

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

1,463
citations

23
h-index

38
g-index

67
ext. papers

1,797
ext. citations

5.6
avg, IF

5.15
L-index

#	Paper	IF	Citations
61	Thermal comfort models: A review and numerical investigation. <i>Building and Environment</i> , 2012 , 47, 13-28.	6.5	142
60	CFD study on micro-environment around human body and personalized ventilation. <i>Building and Environment</i> , 2004 , 39, 795-805	6.5	123
59	CFD study of exhaled droplet transmission between occupants under different ventilation strategies in a typical office room. <i>Building and Environment</i> , 2011 , 46, 397-408	6.5	103
58	Transient CFD simulation of the respiration process and inter-person exposure assessment. <i>Building and Environment</i> , 2006 , 41, 1214-1222	6.5	98
57	Experimental study on a chair-based personalized ventilation system. <i>Building and Environment</i> , 2007 , 42, 913-925	6.5	70
56	Stratified air distribution systems in a large lecture theatre: A numerical method to optimize thermal comfort and maximize energy saving. <i>Energy and Buildings</i> , 2012 , 55, 515-525	7	60
55	Investigation on a spectral splitting photovoltaic/thermal hybrid system based on polypyrrole nanofluid: Preliminary test. <i>Renewable Energy</i> , 2016 , 86, 633-642	8.1	57
54	Using RANS turbulence models and Lagrangian approach to predict particle deposition in turbulent channel flows. <i>Building and Environment</i> , 2012 , 48, 206-214	6.5	54
53	Distribution of respiratory droplets in enclosed environments under different air distribution methods. <i>Building Simulation</i> , 2008 , 1, 326-335	3.9	54
52	Tracer gas is a suitable surrogate of exhaled droplet nuclei for studying airborne transmission in the built environment. <i>Building Simulation</i> , 2020 , 13, 1-8	3.9	42
51	CFD study on the transmission of indoor pollutants under personalized ventilation. <i>Building and Environment</i> , 2013 , 63, 69-78	6.5	42
50	Experimental and numerical investigations on stratified air distribution systems with special configuration: Thermal comfort and energy saving. <i>Energy and Buildings</i> , 2013 , 64, 154-161	7	42
49	Personalized Ventilation for Commercial Aircraft Cabins. <i>Journal of Aircraft</i> , 2008 , 45, 508-512	1.6	42
48	Experimental testing and numerical simulation of scroll expander in a small scale organic Rankine cycle system. <i>Applied Thermal Engineering</i> , 2015 , 87, 529-537	5.8	38
47	Co-occupant exposure to exhaled pollutants with two types of personalized ventilation strategies under mixing and displacement ventilation systems. <i>Indoor Air</i> , 2013 , 23, 162-71	5.4	38
46	The dynamics of the body motion induced wake flow and its effects on the contaminant dispersion. <i>Building and Environment</i> , 2014 , 82, 63-74	6.5	36
45	The airborne transmission of infection between flats in high-rise residential buildings: A review. <i>Building and Environment</i> , 2015 , 94, 516-531	6.5	34

44	Investigation on the fluid selection and evaporation parametric optimization for sub- and supercritical organic Rankine cycle. <i>Energy</i> , 2016 , 96, 59-68	7.9	34
43	Coupling CFD and Human Body Thermoregulation Model for the Assessment of Personalized Ventilation. <i>HVAC and R Research</i> , 2006 , 12, 497-518		31
42	Wind tunnel tests of inter-flat pollutant transmission characteristics in a rectangular multi-storey residential building, part A: Effect of wind direction. <i>Building and Environment</i> , 2016 , 108, 159-170	6.5	28
41	CFD study on gaseous pollutant transmission characteristics under different ventilation strategies in a typical chemical laboratory. <i>Building and Environment</i> , 2017 , 126, 238-251	6.5	25
40	The transport of gaseous pollutants due to stack and wind effect in high-rise residential buildings. <i>Building and Environment</i> , 2015 , 94, 543-557	6.5	25
39	CFD investigation on the effects of wind and thermal wall-flow on pollutant transmission in a high-rise building. <i>Building and Environment</i> , 2018 , 137, 185-197	6.5	23
38	A Review of Modeling Approaches and Tools for the Off-design Simulation of Organic Rankine Cycle. <i>Journal of Thermal Science</i> , 2018 , 27, 305-320	1.9	22
37	Techno-economic analysis on a new conceptual design of waste heat recovery for boiler exhaust flue gas of coal-fired power plants. <i>Energy Conversion and Management</i> , 2019 , 200, 112097	10.6	21
36	Numerical study of the lock-up phenomenon of human exhaled droplets under a displacement ventilated room. <i>Building Simulation</i> , 2012 , 5, 51-60	3.9	21
35	Wind tunnel tests of inter-flat pollutant transmission characteristics in a rectangular multi-storey residential building, part B: Effect of source location. <i>Building and Environment</i> , 2017 , 114, 281-292	6.5	17
34	Modeling the Performance of Personalized Ventilation under Different Conditions of Room Air and Personalized Air. <i>HVAC and R Research</i> , 2005 , 11, 587-602		14
33	Experimental investigation on the effect of working fluid charge in a small-scale Organic Rankine Cycle under off-design conditions. <i>Energy</i> , 2019 , 174, 664-677	7.9	11
32	Radiative properties of gold nanorod solutions and its temperature distribution under laser irradiation: Experimental investigation. <i>Experimental Thermal and Fluid Science</i> , 2013 , 44, 409-418	3	11
31	Numerical study on natural ventilation of the wind tower: Effects of combining with different window configurations in a low-rise house. <i>Building and Environment</i> , 2021 , 188, 107450	6.5	11
30	Influence of heat exchanger pinch point on the control strategy of Organic Rankine cycle (ORC). <i>Energy</i> , 2020 , 207, 118196	7.9	9
29	CFD simulation of the drag effect of urban trees: Source term modification method revisited at the tree scale. <i>Sustainable Cities and Society</i> , 2020 , 56, 102079	10.1	9
28	Numerical study on the effect of diner divider on the airborne transmission of diseases in canteens. <i>Energy and Buildings</i> , 2021 , 248, 111171	7	9
27	Investigation on the optimal condensation temperature of supercritical organic Rankine cycle systems considering meteorological parameters. <i>Energy Conversion and Management</i> , 2018 , 174, 54-64	10.6	8

26	The Transport of Gaseous Pollutants due to Stack Effect in High-Rise Residential Buildings. <i>International Journal of Ventilation</i> , 2015 , 14, 191-208	1.1	8
25	Optimization Design of Capacity and Operation Strategy for Building Level Distributed Energy System. <i>Procedia Engineering</i> , 2016 , 146, 231-238		5
24	Numerical predicting the dynamic behavior of heat exchangers for a small-scale Organic Rankine Cycle. <i>Energy Procedia</i> , 2017 , 129, 419-426	2.3	4
23	Experimental investigation of a small-scale Organic Rankine Cycle under off-design conditions: From the perspective of data fluctuation. <i>Energy Conversion and Management</i> , 2019 , 198, 111826	10.6	4
22	Controlled variable analysis of counter flow heat exchangers based on thermodynamic derivation. <i>Applied Thermal Engineering</i> , 2018 , 129, 684-692	5.8	4
21	Use of an Energy Balance Model for Studying Urban Surface Temperature at Microscale. <i>Procedia Engineering</i> , 2017 , 205, 2956-2966		4
20	Accelerative iteration for coupled conductive-radiative heat transfer computation in semitransparent media. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 82, 503-509	4.9	4
19	Accelerate Iteration of Least-Squares Finite Element Method for Radiative Heat Transfer in Participating Media With Diffusely Reflecting Walls. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	4
18	Light-induced latent heat reduction of silver nanofluids: A molecular dynamics simulation. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 162, 120343	4.9	4
17	Vaporization characteristics and aerosol optical properties of electronic cigarettes. <i>Environmental Pollution</i> , 2021 , 275, 116670	9.3	3
16	Development of a novel cogeneration system by combing organic rankine cycle and heat pump cycle for waste heat recovery. <i>Energy</i> , 2021 , 217, 119445	7.9	3
15	The study of dynamic process of ORC variable conditions based on control characteristics analysis. <i>Energy Procedia</i> , 2017 , 129, 208-215	2.3	2
14	Calculation of Particle Deposition Velocity in the Lagrangian Frame. <i>Indoor and Built Environment</i> , 2012 , 21, 348-350	1.8	2
13	CFD Simulation of Spread Risks of Infectious Disease due to Interactive Wind and Ventilation Airflows via Window Openings in High-Rise Buildings. <i>AIP Conference Proceedings</i> , 2010 , 1233, 169-174	0	2
12	Impact of enhanced electric field on light-induced evaporation process of plasmonic nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 189, 122708	4.9	2
11	Analysis of High Speed Train Equipment Cabin Temperature Field Based on Numerical Simulation. <i>Procedia Engineering</i> , 2015 , 121, 1954-1961		1
10	Effect of resistive load characteristics on the performance of Organic Rankine cycle (ORC). <i>Energy</i> , 2022 , 123407	7.9	1
9	A numerical study on capillary-evaporation behavior of porous wick in electronic cigarettes. <i>Scientific Reports</i> , 2021 , 11, 10348	4.9	1

8	Performance evaluation of ductless ventilation system in basement space of an underground sewage treatment plant: A scaled model case study. <i>Building and Environment</i> , 2019 , 160, 106211	6.5	o
7	Influence of manikin movement on temperature stratification in a displacement ventilated room. <i>Energy and Buildings</i> , 2021 , 234, 110700	7	o
6	Numerical Simulation of Multi-puffing Process of Electronic Atomizer. <i>Journal of Physics: Conference Series</i> , 2021 , 1985, 012072	0.3	o
5	A scaled-model experimental study on the thermodynamic characteristics of electronic cigarettes. <i>Thermochimica Acta</i> , 2021 , 704, 179020	2.9	o
4	Fast fluid dynamics simulation of airflow around a single bluff body under different turbulence models and discretization schemes. <i>Building and Environment</i> , 2022 , 219, 109235	6.5	o
3	Numerical simulation on the temperature field in an equipment cabin of a high-speed railway train. <i>Building Simulation</i> , 2016 , 9, 689-700	3.9	
2	Guest Editorial Ventilation for Healthy Indoor Environments in Various Types of Buildings Extended Papers from Indoor Air 2014. <i>International Journal of Ventilation</i> , 2015 , 14, 109-110	1.1	
1	Study on Re-Independence of Flow Structure in a Flat Large-Space. <i>Environmental Science and Engineering</i> , 2020 , 1245-1254	0.2	