

Tengfei Tim Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5257069/publications.pdf>

Version: 2024-02-01

79
papers

2,024
citations

218381

26
h-index

264894

42
g-index

85
all docs

85
docs citations

85
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical investigation of airflow and contaminant transport in an airliner cabin mockup. <i>Building and Environment</i> , 2009, 44, 85-94.	3.0	247
2	Novel air distribution systems for commercial aircraft cabins. <i>Building and Environment</i> , 2007, 42, 1675-1684.	3.0	169
3	A personal air distribution system with air terminals embedded in chair armrests on commercial airplanes. <i>Building and Environment</i> , 2012, 47, 89-99.	3.0	78
4	Measuring moisture content in a porous insulation package with finite thickness. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 144-151.	2.5	64
5	Numerical investigation of ice slurry isothermal flow in various pipes. <i>International Journal of Refrigeration</i> , 2013, 36, 70-80.	1.8	58
6	Airborne transmission of COVID-19 virus in enclosed spaces: An overview of research methods. <i>Indoor Air</i> , 2022, 32, .	2.0	57
7	Inversely tracking indoor airborne particles to locate their release sources. <i>Atmospheric Environment</i> , 2012, 55, 328-338.	1.9	56
8	An inverse method based on CFD to quantify the temporal release rate of a continuously released pollutant source. <i>Atmospheric Environment</i> , 2013, 77, 62-77.	1.9	54
9	Assessment of single-sided natural ventilation driven by buoyancy forces through variable window configurations. <i>Energy and Buildings</i> , 2017, 139, 762-779.	3.1	54
10	A simplified approach to describe complex diffusers in displacement ventilation for CFD simulations. <i>Indoor Air</i> , 2009, 19, 255-267.	2.0	53
11	An under-aisle air distribution system facilitating humidification of commercial aircraft cabins. <i>Building and Environment</i> , 2010, 45, 907-915.	3.0	53
12	A general model for two-stage vapor compression heat pump systems. <i>International Journal of Refrigeration</i> , 2015, 51, 88-102.	1.8	49
13	Optimal Sensor Placement for Airborne Contaminant Detection in an Aircraft Cabin. <i>HVAC and R Research</i> , 2007, 13, 683-696.	0.9	43
14	Flow and heat transfer characteristics of ice slurry in typical components of cooling systems: A review. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 922-939.	2.5	42
15	Heterogeneous ice slurry flow and concentration distribution in horizontal pipes. <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 425-434.	1.1	41
16	Influencing factors in the simulation of airflow and particle transportation in aircraft cabins by CFD. <i>Building and Environment</i> , 2022, 207, 108413.	3.0	41
17	Inverse identification of the release location, temporal rates, and sensor alarming time of an airborne pollutant source. <i>Indoor Air</i> , 2015, 25, 415-427.	2.0	40
18	State-of-the-art methods for inverse design of an enclosed environment. <i>Building and Environment</i> , 2015, 91, 91-100.	3.0	40

#	ARTICLE	IF	CITATIONS
19	Mathematical and experimental investigation on pressure drop of heterogeneous ice slurry flow in horizontal pipes. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 2381-2392.	2.5	38
20	Flow impact of an air conditioner to portable air cleaning. <i>Building and Environment</i> , 2010, 45, 2047-2056.	3.0	36
21	Quantify impacted scope of human expired air under different head postures and varying exhalation rates. <i>Building and Environment</i> , 2011, 46, 1928-1936.	3.0	34
22	Ventilation, indoor particle filtration, and energy consumption of an apartment in northern China. <i>Building and Environment</i> , 2018, 143, 280-292.	3.0	31
23	Numerical investigation of single-sided natural ventilation driven by buoyancy and wind through variable window configurations. <i>Energy and Buildings</i> , 2018, 168, 147-164.	3.1	30
24	Prompt design of the air-supply opening size for a commercial airplane based on the proper orthogonal decomposition of flows. <i>Building and Environment</i> , 2016, 96, 131-141.	3.0	29
25	Inverse identification of multiple temporal sources releasing the same tracer gaseous pollutant. <i>Building and Environment</i> , 2017, 118, 184-195.	3.0	29
26	A model for calculating single-sided natural ventilation rate in an urban residential apartment. <i>Building and Environment</i> , 2019, 147, 372-381.	3.0	29
27	Experimental investigation of air distribution in an airliner cabin mockup with displacement ventilation. <i>Building and Environment</i> , 2021, 191, 107577.	3.0	27
28	Numerical investigation of gaseous pollutant cross-transmission for single-sided natural ventilation driven by buoyancy and wind. <i>Building and Environment</i> , 2020, 172, 106705.	3.0	26
29	Using an air cycle heat pump system with a turbocharger to supply heating for full electric vehicles. <i>International Journal of Refrigeration</i> , 2017, 77, 11-19.	1.8	25
30	An adjustment to the standard temperature wall function for CFD modeling of indoor convective heat transfer. <i>Building and Environment</i> , 2013, 68, 159-169.	3.0	24
31	Numerical and analytical investigation of ice slurry isothermal flow through horizontal bends. <i>International Journal of Refrigeration</i> , 2018, 92, 37-54.	1.8	23
32	Intermediate pressure of two-stage compression system under different conditions based on compressor coupling model. <i>International Journal of Refrigeration</i> , 2012, 35, 827-840.	1.8	21
33	Inverse determination of wall boundary convective heat fluxes in indoor environments based on CFD. <i>Energy and Buildings</i> , 2014, 73, 130-136.	3.1	19
34	Residential building ventilation in situations with outdoor PM2.5 pollution. <i>Building and Environment</i> , 2021, 202, 108040.	3.0	19
35	Inverse design of underfloor heating power rates and air-supply temperature for an aircraft cabin. <i>Applied Thermal Engineering</i> , 2016, 95, 70-78.	3.0	16
36	Gaseous pollutant transmission through windows between vertical floors in a multistory building with natural ventilation. <i>Energy and Buildings</i> , 2017, 153, 325-340.	3.1	16

#	ARTICLE	IF	CITATIONS
37	CFD Study of Ice Slurry Heat Transfer Characteristics in a Straight Horizontal Tube. <i>Procedia Engineering</i> , 2016, 146, 504-512.	1.2	15
38	Experimental evaluation of particle exposure at different seats in a single-aisle aircraft cabin. <i>Building and Environment</i> , 2021, 202, 108049.	3.0	15
39	Recent progress on studies of airborne infectious disease transmission, air quality, and thermal comfort in the airliner cabin air environment. <i>Indoor Air</i> , 2022, 32, e13032.	2.0	14
40	Insulation of commercial aircraft with an air stream barrier along fuselage. <i>Building and Environment</i> , 2012, 57, 97-109.	3.0	13
41	Analytical Modeling of Microchannel Heat Sinks Using Microencapsulated Phase Change Material Slurry for Chip Cooling. <i>Procedia Engineering</i> , 2017, 205, 2704-2711.	1.2	13
42	Prediction of airflow rate through a ventilated wall module. <i>Energy and Buildings</i> , 2014, 82, 651-659.	3.1	12
43	Measuring moisture content in a porous insulation material using a hot wire. <i>Building and Environment</i> , 2015, 84, 22-31.	3.0	12
44	Mathematical Model of Heat Transfer for a Finned Tube Cross-flow Heat Exchanger with Ice Slurry as Cooling Medium. <i>Procedia Engineering</i> , 2016, 146, 513-522.	1.2	12
45	Inverse design of aircraft cabin environment using computational fluid dynamics-based proper orthogonal decomposition method. <i>Indoor and Built Environment</i> , 2018, 27, 1379-1391.	1.5	12
46	Experimental investigation of jet-induced resuspension of indoor deposited particles. <i>Aerosol Science and Technology</i> , 2016, 50, 230-241.	1.5	11
47	Field study of infiltration rate and its influence on indoor air quality in an apartment. <i>Procedia Engineering</i> , 2017, 205, 3954-3961.	1.2	11
48	Ventilation of ordinary face masks. <i>Building and Environment</i> , 2021, 205, 108261.	3.0	11
49	Numerical Investigation of Bioaerosol Transport in a Compact Lavatory. <i>Buildings</i> , 2021, 11, 526.	1.4	11
50	Measuring the flushing-generated flow and aerosols in lavatory of commercial aircraft. <i>Building and Environment</i> , 2022, 214, 108948.	3.0	10
51	An improved wall-mounted displacement ventilation system in a large-span machining workshop. <i>Building Simulation</i> , 2022, 15, 1943-1953.	3.0	10
52	Optimal specification of target temperature points for inverse design of an indoor thermal environment. <i>Building and Environment</i> , 2015, 92, 518-527.	3.0	8
53	Measuring detachment of <i>Aspergillus niger</i> spores from colonies with an atomic force microscope. <i>Indoor Air</i> , 2018, 28, 744-753.	2.0	7
54	A ventilator that responds to outdoor conditions for ventilation and air filtration. <i>Energy and Buildings</i> , 2020, 229, 110498.	3.1	7

#	ARTICLE	IF	CITATIONS
55	Principles of air and contaminant movement inside and around buildings. , 2020, , 245-370.		7
56	CFD modeling of moisture accumulation in the insulation layers of an aircraft. Applied Thermal Engineering, 2016, 102, 1141-1156.	3.0	5
57	Simulation of the Melting Process of Ice Slurry for Energy Storage Using a Two-Fluid Lattice Boltzmann Method. Energy Procedia, 2017, 121, 110-117.	1.8	5
58	Experimental identification of key parameters contributing to moisture accumulation in an aircraft section. Building and Environment, 2017, 126, 339-347.	3.0	5
59	Removing painting-generated VOCs in a commercial airplane hangar with multiple portable exhaust hoods. Building and Environment, 2021, 196, 107797.	3.0	5
60	Analytical solution for the heat and mass transfer of spherical grains during drying. Biosystems Engineering, 2021, 212, 399-412.	1.9	5
61	A passive pivoted window for stabilizing the natural ventilation rate. Energy and Buildings, 2022, 267, 112151.	3.1	5
62	Numerical and analytical investigations of heat transfer for a finned tube heat exchanger with ice slurry as cooling medium. Science and Technology for the Built Environment, 2017, 23, 478-489.	0.8	4
63	Experimental study of relative exposure to particles transmitted from kitchen in an apartment. Procedia Engineering, 2017, 205, 3830-3837.	1.2	4
64	Measuring moisture content in porous insulation materials based on transient temperatures over a period of 100Åseconds. Science and Technology for the Built Environment, 2018, 24, 571-579.	0.8	4
65	Impact of Seat Inclination and Misalignment on Airborne Pollutant Transport in a Single-Aisle Aircraft Cabin. Applied Sciences (Switzerland), 2022, 12, 4538.	1.3	4
66	A Modified Surgical Face Mask to Improve Protection and Wearing Comfort. Buildings, 2022, 12, 663.	1.4	4
67	Aerosolization of Aspergillus niger spores from growing colonies on a bare tube. Atmospheric Environment, 2019, 218, 117008.	1.9	3
68	Detachment of adhered particles from a cloth surface subjected to a rod strike. Aerosol Science and Technology, 2019, 53, 435-448.	1.5	3
69	Performance Analysis of an Air Cycle Heat Pump with a Turbocharger Driven by a Blower. Procedia Engineering, 2017, 205, 2720-2727.	1.2	2
70	Measured moisture accumulation in aircraft walls during simulated commercial flights. Science and Technology for the Built Environment, 2018, 24, 820-829.	0.8	2
71	Aerosolization of Aspergillus niger spores from colonies on different positions of a circular tube. E3S Web of Conferences, 2019, 111, 02030.	0.2	2
72	An air cycle heat pump heating system using a turbocharger for full electric vehicle. Procedia Engineering, 2017, 205, 1405-1411.	1.2	1

#	ARTICLE	IF	CITATIONS
73	Zonal network solution of temperature profiles in a ventilated wall module. Journal of Building Performance Simulation, 2018, 11, 538-552.	1.0	1
74	Numerical Study of Convection Melting Inside Ice Storage Systems by the Lattice Boltzmann Model. Heat Transfer Engineering, 2019, 40, 1709-1721.	1.2	1
75	Simulation on a Two-Stage Compression Heat Pump with Focus on Optimum Control. Lecture Notes in Electrical Engineering, 2014, , 381-397.	0.3	1
76	Measuring moisture content in building insulation materials by a hot film. Science and Technology for the Built Environment, 0, , 1-20.	0.8	1
77	Improving the built environment from the systematic view. Science and Technology for the Built Environment, 2017, 23, 227-228.	0.8	0
78	Simulation Analysis of Energy and Ventilation Performance of Typical Residential Building Ventilation Modes in Five Climate Zones of China. Environmental Science and Engineering, 2020, , 1093-1101.	0.1	0
79	Modeling and Measuring the Leaked-Air Rate into the Insulation Layer of a Single-Aisle Aircraft Cabin. Buildings, 2022, 12, 652.	1.4	0