

Xiangdong Li

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,470
citations

257101

24
h-index

344852

36
g-index

53
all docs

53
docs citations

53
times ranked

1073
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of evaporation of cough droplets in inhomogeneous humidity fields using the multi-component Eulerian-Lagrangian approach. <i>Building and Environment</i> , 2018, 128, 68-76.	3.0	105
2	Evaluation of airborne disease infection risks in an airliner cabin using the Lagrangian-based Wells-Riley approach. <i>Building and Environment</i> , 2017, 121, 79-92.	3.0	78
3	Thermal effect of human body on cough droplets evaporation and dispersion in an enclosed space. <i>Building and Environment</i> , 2019, 148, 96-106.	3.0	78
4	Numerical study of the effects of human body heat on particle transport and inhalation in indoor environment. <i>Building and Environment</i> , 2013, 59, 1-9.	3.0	65
5	Particle inhalation and deposition in a human nasal cavity from the external surrounding environment. <i>Building and Environment</i> , 2012, 47, 32-39.	3.0	61
6	CFD study of the effects of furniture layout on indoor air quality under typical office ventilation schemes. <i>Building Simulation</i> , 2014, 7, 263-275.	3.0	58
7	An integrated predictive model of the long-term performance of ground source heat pump (GSHP) systems. <i>Energy and Buildings</i> , 2018, 159, 309-318.	3.1	53
8	A review of nucleate boiling on nanoengineered surfaces – The nanostructures, phenomena and mechanisms. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 20-33.	2.5	51
9	Numerical investigation of indoor particulate contaminant transport using the Eulerian-Eulerian and Eulerian-Lagrangian two-phase flow models. <i>Experimental and Computational Multiphase Flow</i> , 2020, 2, 31-40.	1.9	43
10	Effects of cough-jet on airflow and contaminant transport in an airliner cabin section. <i>Journal of Computational Multiphase Flows</i> , 2018, 10, 72-82.	0.8	41
11	An Eulerian-Eulerian model for particulate matter transport in indoor spaces. <i>Building and Environment</i> , 2015, 86, 191-202.	3.0	40
12	A PMV-based HVAC control strategy for office rooms subjected to solar radiation. <i>Building and Environment</i> , 2020, 177, 106863.	3.0	40
13	Numerical investigation of particle transport and inhalation using standing thermal manikins. <i>Building and Environment</i> , 2013, 60, 116-125.	3.0	37
14	Evaluation of manikin simplification methods for CFD simulations in occupied indoor environments. <i>Energy and Buildings</i> , 2016, 127, 611-626.	3.1	37
15	Overall performance evaluation of underfloor air distribution system with different heights of return vents. <i>Energy and Buildings</i> , 2017, 147, 176-187.	3.1	37
16	Numerical and experimental investigation of heat transfer on heating surface during subcooled boiling flow of liquid nitrogen. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1510-1516.	2.5	35
17	Source and trajectories of inhaled particles from a surrounding environment and its deposition in the respiratory airway. <i>Inhalation Toxicology</i> , 2013, 25, 280-291.	0.8	35
18	Numerical investigation of boiling flow of nitrogen in a vertical tube using the two-fluid model. <i>Applied Thermal Engineering</i> , 2006, 26, 2425-2432.	3.0	34

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19	Multi-objective optimization for designing of high-speed train cabin ventilation system using particle swarm optimization and multi-fidelity Kriging. <i>Building and Environment</i> , 2019, 155, 161-174.	3.0	33
20	On two-fluid modeling of nucleate boiling of dilute nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 443-450.	2.5	32
21	Experimental and numerical investigations on heat transfer in stratified subsurface materials. <i>Applied Thermal Engineering</i> , 2018, 135, 228-237.	3.0	31
22	A spatiotemporally resolved infection risk model for airborne transmission of COVID-19 variants in indoor spaces. <i>Science of the Total Environment</i> , 2022, 812, 152592.	3.9	29
23	The simplification of computer simulated persons (CSPs) in CFD models of occupied indoor spaces. <i>Building and Environment</i> , 2015, 93, 155-164.	3.0	28
24	Nucleate boiling of dilute nanofluids – Mechanism exploring and modeling. <i>International Journal of Thermal Sciences</i> , 2014, 84, 323-334.	2.6	27
25	Effects of structure and shape on thermal performance of Perforated Multi-Layer Insulation Blankets. <i>Applied Thermal Engineering</i> , 2009, 29, 1264-1266.	3.0	22
26	A parametric study of the heat flux partitioning model for nucleate boiling of nanofluids. <i>International Journal of Thermal Sciences</i> , 2015, 98, 42-50.	2.6	22
27	Evaluation of the eddy viscosity turbulence models for the simulation of convection–radiation coupled heat transfer in indoor environment. <i>Energy and Buildings</i> , 2019, 184, 8-18.	3.1	22
28	Effects of passenger thermal plume on the transport and distribution characteristics of airborne particles in an airliner cabin section. <i>Science and Technology for the Built Environment</i> , 2016, 22, 153-163.	0.8	21
29	A theoretical model for nucleate boiling of nanofluids considering the nanoparticle Brownian motion in liquid microlayer. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 467-476.	2.5	19
30	Evaluation of models and methods to simulate thermal radiation in indoor spaces. <i>Building and Environment</i> , 2018, 144, 259-267.	3.0	19
31	Numerical and experimental investigation of pressure drop characteristics during upward boiling two-phase flow of nitrogen. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1971-1981.	2.5	18
32	The effects of diffuser type on thermal flow and contaminant transport in high-speed train (HST) cabins – A numerical study. <i>International Journal of Ventilation</i> , 2018, 17, 48-62.	0.2	18
33	Experimental investigations of the heat load effect on heat transfer of ground heat exchangers in a layered subsurface. <i>Geothermics</i> , 2019, 77, 75-82.	1.5	18
34	Multiscale modelling of nucleate boiling on nanocoatings for electronics cooling – From nanoscale to macroscale. <i>Experimental and Computational Multiphase Flow</i> , 2021, 3, 233-241.	1.9	17
35	Thermal comfort analysis of a high-speed train cabin considering the solar radiation effects. <i>Indoor and Built Environment</i> , 2020, 29, 1101-1117.	1.5	16
36	Experimental and numerical investigations of fluid flow and heat transfer in a cryogenic tank at loss of vacuum. <i>Heat and Mass Transfer</i> , 2010, 46, 395-404.	1.2	14

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37	Numerical investigation of micron particle inhalation by standing thermal manikins in horizontal airflows. <i>Indoor and Built Environment</i> , 2016, 25, 357-370.	1.5	14
38	Characterisation and analysis of indoor tornado for contaminant removal and emergency ventilation. <i>Building and Environment</i> , 2019, 164, 106345.	3.0	14
39	Experimental investigation on hydrogen adsorption performance of composite adsorbent in the tank with high vacuum multilayer insulation. <i>Vacuum</i> , 2009, 83, 1184-1190.	1.6	12
40	Numerical investigations of the effects of manikin simplifications on the thermal flow field in indoor spaces. <i>Building Simulation</i> , 2017, 10, 219-227.	3.0	12
41	Experimental investigation and theoretical analysis on measurement of hydrogen adsorption in vacuum system. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4347-4353.	3.8	11
42	Numerical modelling of air-nanofluid bubbly flows in a vertical tube using the Multiple-Size-Group (MUSIC) model. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 856-866.	2.5	11
43	MUSIC modeling and evaluation of nitrogen bubble coalescence in a bottom-closed vertical tube. <i>Aerospace Science and Technology</i> , 2010, 14, 203-212.	2.5	10
44	Effects of manikin model simplification on CFD predictions of thermal flow field around human bodies. <i>Indoor and Built Environment</i> , 2017, 26, 1185-1197.	1.5	9
45	Effects of surface radiation on gaseous contaminants emission and dispersion in indoor environment – A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 854-862.	2.5	8
46	A computational fluid dynamics study on the effects of computer fan on indoor airflow and indoor air quality in breathing zone. <i>Indoor and Built Environment</i> , 2015, 24, 295-307.	1.5	7
47	The effects of nanoparticles on the lift force and drag force on bubbles in nanofluids: A two-fluid model study. <i>International Journal of Thermal Sciences</i> , 2017, 119, 1-8.	2.6	7
48	Effects of spontaneous nanoparticle adsorption on the bubble-liquid and bubble-bubble interactions in multi-dispersed bubbly systems – A review. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 552-567.	2.5	6
49	Numerical Study on Effects of Air Return Height on Performance of an Underfloor Air Distribution System for Heating and Cooling. <i>Energies</i> , 2020, 13, 1070.	1.6	5
50	An Energy Saving Ventilation Strategy for Short-Term Occupied Rooms based on the Time-Dependent Concentration of CO ₂ . <i>International Journal of Ventilation</i> , 2015, 14, 39-52.	0.2	4
51	Numerical investigation on boiling flow of liquid nitrogen in a vertical tube using bubble number density approach. <i>Heat and Mass Transfer</i> , 2016, 52, 877-886.	1.2	3
52	Modelling and critical analysis of bubbly flows of dilute nanofluids in a vertical tube. <i>Nuclear Engineering and Design</i> , 2016, 300, 173-180.	0.8	2
53	Progress of Particle Flow, Fluid/Solid Mechanics, and Heat Transfer in Advanced Gas/Water Nuclear Reactors. <i>Science and Technology of Nuclear Installations</i> , 2016, 2016, 1-2.	0.3	1