Xiangdong Li

List of Publications by Year
in descending order

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53	1,470	257101	344852
papers	citations	24 h-index	36 g-index

53	53	53	1073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A spatiotemporally resolved infection risk model for airborne transmission of COVID-19 variants in indoor spaces. Science of the Total Environment, 2022, 812, 152592.	3.9	29
2	Multiscale modelling of nucleate boiling on nanocoatings for electronics coolingâ€"From nanoscale to macroscale. Experimental and Computational Multiphase Flow, 2021, 3, 233-241.	1.9	17
3	Numerical investigation of indoor particulate contaminant transport using the Eulerian-Eulerian and Eulerian-Lagrangian two-phase flow models. Experimental and Computational Multiphase Flow, 2020, 2, 31-40.	1.9	43
4	Thermal comfort analysis of a high-speed train cabin considering the solar radiation effects. Indoor and Built Environment, 2020, 29, 1101-1117.	1.5	16
5	A PMV-based HVAC control strategy for office rooms subjected to solar radiation. Building and Environment, 2020, 177, 106863.	3.0	40
6	Numerical Study on Effects of Air Return Height on Performance of an Underfloor Air Distribution System for Heating and Cooling. Energies, 2020, 13, 1070.	1.6	5
7	Characterisation and analysis of indoor tornado for contaminant removal and emergency ventilation. Building and Environment, 2019, 164, 106345.	3.0	14
8	Effects of surface radiation on gaseous contaminants emission and dispersion in indoor environment â€“ A numerical study. International Journal of Heat and Mass Transfer, 2019, 131, 854-862.	2.5	8
9	A review of nucleate boiling on nanoengineered surfaces â€“ The nanostructures, phenomena and mechanisms. International Journal of Heat and Mass Transfer, 2019, 141, 20-33.	2.5	51
10	Multi-objective optimization for designing of high-speed train cabin ventilation system using particle swarm optimization and multi-fidelity Kriging. Building and Environment, 2019, 155, 161-174.	3.0	33
11	Experimental investigations of the heat load effect on heat transfer of ground heat exchangers in a layered subsurface. Geothermics, 2019, 77, 75-82.	1.5	18
12	Thermal effect of human body on cough droplets evaporation and dispersion in an enclosed space. Building and Environment, 2019, 148, 96-106.	3.0	78
13	Evaluation of the eddy viscosity turbulence models for the simulation of convectionâ€“radiation coupled heat transfer in indoor environment. Energy and Buildings, 2019, 184, 8-18.	3.1	22
14	Experimental and numerical investigations on heat transfer in stratified subsurface materials. Applied Thermal Engineering, 2018, 135, 228-237.	3.0	31
15	Modelling of evaporation of cough droplets in inhomogeneous humidity fields using the multi-component Eulerian-Lagrangian approach. Building and Environment, 2018, 128, 68-76.	3.0	105
16	Effects of spontaneous nanoparticle adsorption on the bubble-liquid and bubble-bubble interactions in multi-dispersed bubbly systems â€“ A review. International Journal of Heat and Mass Transfer, 2018, 120, 552-567.	2.5	6
17	The effects of diffuser type on thermal flow and contaminant transport in high-speed train (HST) cabinsÂâ€“Âa numerical study. International Journal of Ventilation, 2018, 17, 48-62.	0.2	18
18	Effects of cough-jet on airflow and contaminant transport in an airliner cabin section. Journal of Computational Multiphase Flows, 2018, 10, 72-82.	0.8	41

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19	An integrated predictive model of the long-term performance of ground source heat pump (GSHP) systems. Energy and Buildings, 2018, 159, 309-318.	3.1	53
20	Evaluation of models and methods to simulate thermal radiation in indoor spaces. Building and Environment, 2018, 144, 259-267.	3.0	19
21	Evaluation of airborne disease infection risks in an airliner cabin using the Lagrangian-based Wells-Riley approach. Building and Environment, 2017, 121, 79-92.	3.0	78
22	Overall performance evaluation of underfloor air distribution system with different heights of return vents. Energy and Buildings, 2017, 147, 176-187.	3.1	37
23	The effects of nanoparticles on the lift force and drag force on bubbles in nanofluids: A two-fluid model study. International Journal of Thermal Sciences, 2017, 119, 1-8.	2.6	7
24	Effects of manikin model simplification on CFD predictions of thermal flow field around human bodies. Indoor and Built Environment, 2017, 26, 1185-1197.	1.5	9
25	Numerical investigations of the effects of manikin simplifications on the thermal flow field in indoor spaces. Building Simulation, 2017, 10, 219-227.	3.0	12
26	Progress of Particle Flow, Fluid/Solid Mechanics, and Heat Transfer in Advanced Gas/Water Nuclear Reactors. Science and Technology of Nuclear Installations, 2016, 2016, 1-2.	0.3	1
27	Numerical investigation of micron particle inhalation by standing thermal manikins in horizontal airflows. Indoor and Built Environment, 2016, 25, 357-370.	1.5	14
28	Numerical modelling of airâ€“nanofluid bubbly flows in a vertical tube using the MUltiple-SIze-Group (MUSIG) model. International Journal of Heat and Mass Transfer, 2016, 102, 856-866.	2.5	11
29	Evaluation of manikin simplification methods for CFD simulations in occupied indoor environments. Energy and Buildings, 2016, 127, 611-626.	3.1	37
30	Effects of passenger thermal plume on the transport and distribution characteristics of airborne particles in an airliner cabin section. Science and Technology for the Built Environment, 2016, 22, 153-163.	0.8	21
31	Modelling and critical analysis of bubbly flows of dilute nanofluids in a vertical tube. Nuclear Engineering and Design, 2016, 300, 173-180.	0.8	2
32	Numerical investigation on boiling flow of liquid nitrogen in a vertical tube using bubble number density approach. Heat and Mass Transfer, 2016, 52, 877-886.	1.2	3
33	An Energy Saving Ventilation Strategy for Short-Term Occupied Rooms based on the Time-Dependent Concentration of CO2. International Journal of Ventilation, 2015, 14, 39-52.	0.2	4
34	A computational fluid dynamics study on the effects of computer fan on indoor airflow and indoor air quality in breathing zone. Indoor and Built Environment, 2015, 24, 295-307.	1.5	7
35	An Eulerianâ€“Eulerian model for particulate matter transport in indoor spaces. Building and Environment, 2015, 86, 191-202.	3.0	40
36	The simplification of computer simulated persons (CSPs) in CFD models of occupied indoor spaces. Building and Environment, 2015, 93, 155-164.	3.0	28

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37	A theoretical model for nucleate boiling of nanofluids considering the nanoparticle Brownian motion in liquid microlayer. International Journal of Heat and Mass Transfer, 2015, 91, 467-476.	2.5	19
38	A parametric study of the heat flux partitioning model for nucleate boiling of nanofluids. International Journal of Thermal Sciences, 2015, 98, 42-50.	2.6	22
39	CFD study of the effects of furniture layout on indoor air quality under typical office ventilation schemes. Building Simulation, 2014, 7, 263-275.	3.0	58
40	On two-fluid modeling of nucleate boiling of dilute nanofluids. International Journal of Heat and Mass Transfer, 2014, 69, 443-450.	2.5	32
41	Nucleate boiling of dilute nanofluids â€“ Mechanism exploring and modeling. International Journal of Thermal Sciences, 2014, 84, 323-334.	2.6	27
42	Numerical investigation of particle transport and inhalation using standing thermal manikins. Building and Environment, 2013, 60, 116-125.	3.0	37
43	Numerical study of the effects of human body heat on particle transport andÂinhalation in indoor environment. Building and Environment, 2013, 59, 1-9.	3.0	65
44	Source and trajectories of inhaled particles from a surrounding environment and its deposition in the respiratory airway. Inhalation Toxicology, 2013, 25, 280-291.	0.8	35
45	Particle inhalation and deposition in a human nasal cavity from the external surrounding environment. Building and Environment, 2012, 47, 32-39.	3.0	61
46	Experimental and numerical investigations of fluid flow and heat transfer in a cryogenic tank at loss of vacuum. Heat and Mass Transfer, 2010, 46, 395-404.	1.2	14
47	MUSIG modeling and evaluation of nitrogen bubble coalescence in a bottom-closed vertical tube. Aerospace Science and Technology, 2010, 14, 203-212.	2.5	10
48	Experimental investigation and theoretical analysis on measurement of hydrogen adsorption in vacuum system. International Journal of Hydrogen Energy, 2010, 35, 4347-4353.	3.8	11
49	Numerical and experimental investigation of heat transfer on heating surface during subcooled boiling flow of liquid nitrogen. International Journal of Heat and Mass Transfer, 2009, 52, 1510-1516.	2.5	35
50	Experimental investigation on hydrogen adsorption performance of composite adsorbent in the tank with high vacuum multilayer insulation. Vacuum, 2009, 83, 1184-1190.	1.6	12
51	Effects of structure and shape on thermal performance of Perforated Multi-Layer Insulation Blankets. Applied Thermal Engineering, 2009, 29, 1264-1266.	3.0	22
52	Numerical and experimental investigation of pressure drop characteristics during upward boiling two-phase flow of nitrogen. International Journal of Heat and Mass Transfer, 2007, 50, 1971-1981.	2.5	18
53	Numerical investigation of boiling flow of nitrogen in a vertical tube using the two-fluid model. Applied Thermal Engineering, 2006, 26, 2425-2432.	3.0	34