

Wenguo Weng

List of Publications by Year in descending order

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52
papers

1,224
citations

304368

22
h-index

395343

33
g-index

55
all docs

55
docs citations

55
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient and continuous effects of indoor human movement on nanoparticle concentrations in a sitting person's breathing zone. <i>Science of the Total Environment</i> , 2022, 805, 149970.	3.9	8
2	Multi-hazard risk assessment in process industries: State-of-the-Art. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 76, 104672.	1.7	9
3	A non-linear risk assessment method for chemical clusters based on fuzzy measure and Choquet integral. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 77, 104778.	1.7	5
4	Enhancement effect of human movement on the high risk range of viral aerosols exhaled by a sitting person. <i>Building and Environment</i> , 2022, 218, 109136.	3.0	11
5	Synergistic effects on the physical effects of explosions in multi-hazard coupling accidents in chemical industries. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 77, 104800.	1.7	5
6	A Risk Assessment Method for Multi-Hazard Coupling Disasters. <i>Risk Analysis</i> , 2021, 41, 1362-1375.	1.5	16
7	COVID-19 virus released from larynx might cause a higher exposure dose in indoor environment. <i>Environmental Research</i> , 2021, 199, 111361.	3.7	23
8	Electrospinning of continuous nanofiber hollow yarns for thermal storage and insulation by a multi-step twisting method. <i>Textile Reseach Journal</i> , 2020, 90, 1045-1056.	1.1	7
9	Analysis of geographical migration networks of bride trafficking crime from 2000 to 2018 in China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124196.	1.2	1
10	Synergic effects in the assessment of multi-hazard coupling disasters: Fires, explosions, and toxicant leaks. <i>Journal of Hazardous Materials</i> , 2020, 388, 121813.	6.5	30
11	A dynamic and simulation-based method for quantitative risk assessment of the domino accident in chemical industry. <i>Chemical Engineering Research and Design</i> , 2020, 144, 79-92.	2.7	37
12	A review of the research into the relations between hazards in multi-hazard risk analysis. <i>Natural Hazards</i> , 2020, 104, 2003-2026.	1.6	52
13	Experimental study on individual risk in crowds based on exerted force and human perceptions. <i>Ergonomics</i> , 2020, 63, 789-803.	1.1	7
14	Investigation of inhalation and exhalation flow pattern in a realistic human upper airway model by PIV experiments and CFD simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1679-1695.	1.4	32
15	Modeling human domino process based on interactions among individuals for understanding crowd disasters. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 531, 121781.	1.2	6
16	A Numerical Tool for Assessing Disaster Related Injuries and Personal Protective Clothing. , 2019, , .		0
17	Fate of the inhaled smoke particles from fire scenes in the nasal airway of a realistic firefighter: A simulation study. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 273-285.	0.4	4
18	Assessment of occupant-behavior-based indoor air quality and its impacts on human exposure risk: A case study based on the wildfires in Northern California. <i>Science of the Total Environment</i> , 2019, 686, 1251-1261.	3.9	28

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19	Analysis on geographical migration networks of child trafficking crime for illegal adoption from 2008 to 2017 in China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 528, 121404.	1.2	8
20	Prediction of thermal skin burn based on the combined mathematical model of the skin and clothing. <i>Journal of the Textile Institute</i> , 2018, 109, 1606-1612.	1.0	7
21	The Preparation and Characterization of Ultrafine Fatty Acid Ester/Poly(meta-phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 <i>Polymers</i> , 2018, 19, 498-506.	1.1	9
22	Human-walking-induced wake flow “ PIV experiments and CFD simulations. <i>Indoor and Built Environment</i> , 2018, 27, 1069-1084.	1.5	24
23	Study on the collision dynamics and the transmission pattern between pedestrians along the queue. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 073406.	0.9	17
24	Experimental and numerical investigation of the wake flow of a human-shaped manikin: Experiments by PIV and simulations by CFD. <i>Building Simulation</i> , 2018, 11, 1189-1205.	3.0	14
25	A numerical study on firefighter nasal airway dosimetry of smoke particles from a realistic composite deck fire. <i>Journal of Aerosol Science</i> , 2018, 123, 91-104.	1.8	12
26	Integrating a human thermoregulatory model with a clothing model to predict core and skin temperatures. <i>Applied Ergonomics</i> , 2017, 61, 168-177.	1.7	23
27	Hydroxypropyl cellulose-based esters for thermal energy storage by grafting with palmitic-stearic binary acids. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	7
28	Numerical investigation of airflow, heat transfer and particle deposition for oral breathing in a realistic human upper airway model. <i>Journal of Thermal Biology</i> , 2017, 70, 53-63.	1.1	27
29	Association of Ozone Exposure With Cardiorespiratory Pathophysiologic Mechanisms in Healthy Adults. <i>JAMA Internal Medicine</i> , 2017, 177, 1344.	2.6	183
30	Modelling heat transfer and physiological responses of unclothed human body in hot environment by coupling CFD simulation with thermal model. <i>International Journal of Thermal Sciences</i> , 2017, 120, 437-445.	2.6	23
31	Review on modeling heat transfer and thermoregulatory responses in human body. <i>Journal of Thermal Biology</i> , 2016, 62, 189-200.	1.1	63
32	Quantitative investigation of air gaps entrapped in multilayer thermal protective clothing in low-level radiation at the moisture condition. <i>Fire and Materials</i> , 2016, 40, 179-189.	0.9	12
33	Continuous aligned poly(meta-phenylene isophthalamide) fibers via stable jet electrospinning. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
34	Ultrafine lauric-myristic acid eutectic/poly (meta-phenylene isophthalamide) form-stable phase change fibers for thermal energy storage by electrospinning. <i>Applied Energy</i> , 2016, 173, 168-176.	5.1	35
35	Experimental study on merged flame characteristics from multifire sources with wood cribs. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 2597-2606.	2.4	32
36	A coupling system to predict the core and skin temperatures of human wearing protective clothing in hot environments. <i>Applied Ergonomics</i> , 2015, 51, 363-369.	1.7	15

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37	Numerical and experimental investigation on the dynamic airflow of human movement in a full-scale cabin. HVAC and R Research, 2014, 20, 444-457.	0.9	29
38	Thermal insulations of multilayer clothing systems measured by a bench scale test in low level heat exposures. International Journal of Clothing Science and Technology, 2014, 26, 412-423.	0.5	14
39	Effects of multiple air gaps on the thermal performance of firefighter protective clothing under low-level heat exposure. Textile Research Journal, 2014, 84, 968-978.	1.1	35
40	An extended multi-segmented human bioheat model for high temperature environments. International Journal of Heat and Mass Transfer, 2014, 75, 504-513.	2.5	29
41	Numerical Simulation of the Effects of Blood Perfusion, Water Diffusion, and Vaporization on the Skin Temperature and Burn Injuries. Numerical Heat Transfer; Part A: Applications, 2014, 65, 1187-1203.	1.2	47
42	Experimental and numerical study of physiological responses in hot environments. Journal of Thermal Biology, 2014, 45, 54-61.	1.1	37
43	Effect of human movement on airborne disease transmission in an airplane cabin: study using numerical modeling and quantitative risk analysis. BMC Infectious Diseases, 2014, 14, 434.	1.3	46
44	Experimental study of the effects of human movement on the convective heat transfer coefficient. Experimental Thermal and Fluid Science, 2014, 57, 40-56.	1.5	26
45	A model of heat and moisture transfer through clothing integrated with the UC Berkeley comfort model. Building and Environment, 2014, 80, 96-104.	3.0	30
46	Quantitative assessment of the relationship between radiant heat exposure and protective performance of multilayer thermal protective clothing during dry and wet conditions. Journal of Hazardous Materials, 2014, 276, 383-392.	6.5	43
47	Investigation on an Integrated Evacuation Route Planning Method Based on Real-Time Data Acquisition for High-Rise Building Fire. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 782-795.	4.7	29
48	GIS-Based Forest Fire Risk Assessment and Mapping. , 2011, , .		24
49	Fire spread model for old towns based on cellular automaton. Tsinghua Science and Technology, 2008, 13, 736-740.	4.1	7
50	Cellular Automata-Based Systematic Risk Analysis Approach for Emergency Response. Risk Analysis, 2008, 28, 1247-1260.	1.5	18
51	A cellular automaton evacuation model based on mobile robot's behaviors. Science Bulletin, 2007, 52, 680-684.	1.7	3
52	MOTOR SCHEMA-BASED CELLULAR AUTOMATON MODEL FOR PEDESTRIAN DYNAMICS. International Journal of Modern Physics C, 2006, 17, 853-859.	0.8	7