Wenguo Weng

List of Publications by Year
in descending order

52	1,224	304368	395343
papers	citations	22 h-index	33 g-index

55	55	55	1132
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Association of Ozone Exposure With Cardiorespiratory Pathophysiologic Mechanisms in Healthy Adults. JAMA Internal Medicine, 2017, 177, 1344.	2.6	183
2	Review on modeling heat transfer and thermoregulatory responses in human body. Journal of Thermal Biology, 2016, 62, 189-200.	1.1	63
3	A review of the research into the relations between hazards in multi-hazard risk analysis. Natural Hazards, 2020, 104, 2003-2026.	1.6	52
4	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
5	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
6	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
7	Experimental and numerical study of physiological responses in hot environments. Journal of Thermal Biology, 2014, 45, 54-61.	1.1	37
8	A dynamic and simulation-based method for quantitative risk assessment of the domino accident in chemical industry. Chemical Engineering Research and Design, 2020, 144, 79-92.	2.7	37
9	Effects of multiple air gaps on the thermal performance of firefighter protective clothing under low-level heat exposure. Textile Reseach Journal, 2014, 84, 968-978.	1.1	35
10	Ultrafine lauricâ€“myristic acid eutectic/poly (meta-phenylene isophthalamide) form-stable phase change fibers for thermal energy storage by electrospinning. Applied Energy, 2016, 173, 168-176.	5.1	35
11	Experimental study on merged flame characteristics from multifire sources with wood cribs. Proceedings of the Combustion Institute, 2015, 35, 2597-2606.	2.4	32
12	Investigation of inhalation and exhalation flow pattern in a realistic human upper airway model by PIV experiments and CFD simulations. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1679-1695.	1.4	32
13	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
14	Synergic effects in the assessment of multi-hazard coupling disasters: Fires, explosions, and toxicant leaks. Journal of Hazardous Materials, 2020, 388, 121813.	6.5	30
15	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
16	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
17	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
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. Science of the Total Environment, 2019, 686, 1251-1261.	3.9	28

#	Article	IF	Citations
19	Numerical investigation of airflow, heat transfer and particle deposition for oral breathing in a realistic human upper airway model. Journal of Thermal Biology, 2017, 70, 53-63.	1.1	27
20	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
21	GIS-Based Forest Fire Risk Assessment and Mapping. , 2011, , .		24
22	Human-walking-induced wake flow â€“ PIV experiments and CFD simulations. Indoor and Built Environment, 2018, 27, 1069-1084.	1.5	24
23	Integrating a human thermoregulatory model with a clothing model to predict core and skin temperatures. Applied Ergonomics, 2017, 61, 168-177.	1.7	23
24	Modelling heat transfer and physiological responses of unclothed human body in hot environment by coupling CFD simulation with thermal model. International Journal of Thermal Sciences, 2017, 120, 437-445.	2.6	23
25	COVID-19 virus released from larynx might cause a higher exposure dose in indoor environment. Environmental Research, 2021, 199, 111361.	3.7	23
26	Cellular Automataâ€Based Systematic Risk Analysis Approach for Emergency Response. Risk Analysis, 2008, 28, 1247-1260.	1.5	18
27	Study on the collision dynamics and the transmission pattern between pedestrians along the queue. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 073406.	0.9	17
28	A Risk Assessment Method for Multiâ€Hazard Coupling Disasters. Risk Analysis, 2021, 41, 1362-1375.	1.5	16
29	A coupling system to predict the core and skin temperatures of human wearing protective clothing in hot environments. Applied Ergonomics, 2015, 51, 363-369.	1.7	15
30	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
31	Experimental and numerical investigation of the wake flow of a human-shaped manikin: Experiments by PIV and simulations by CFD. Building Simulation, 2018, 11, 1189-1205.	3.0	14
32	Quantitative investigation of air gaps entrapped in multilayer thermal protective clothing in lowâ€level radiation at the moisture condition. Fire and Materials, 2016, 40, 179-189.	0.9	12
33	A numerical study on firefighter nasal airway dosimetry of smoke particles from a realistic composite deck fire. Journal of Aerosol Science, 2018, 123, 91-104.	1.8	12
34	Enhancement effect of human movement on the high risk range of viral aerosols exhaled by a sitting person. Building and Environment, 2022, 218, 109136.	3.0	11
35	The Preparation and Characterization of Ultrafine Fatty Acid Ester/Poly(meta-phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Polymers, 2018, 19, 498-506.	1.1	9
36	Multi-hazard risk assessment in process industries: State-of-the-Art. Journal of Loss Prevention in the Process Industries, 2022, 76, 104672.	1.7	9

#	Article	IF	Citations
37	Analysis on geographical migration networks of child trafficking crime for illegal adoption from 2008 to 2017 in China. Physica A: Statistical Mechanics and Its Applications, 2019, 528, 121404.	1.2	8
38	Transient and continuous effects of indoor human movement on nanoparticle concentrations in a sitting person's breathing zone. Science of the Total Environment, 2022, 805, 149970.	3.9	8
39	MOTOR SCHEMA-BASED CELLULAR AUTOMATON MODEL FOR PEDESTRIAN DYNAMICS. International Journal of Modern Physics C, 2006, 17, 853-859.	0.8	7
40	Fire spread model for old towns based on cellular automaton. Tsinghua Science and Technology, 2008, 13, 736-740.	4.1	7
41	Hydroxypropyl celluloseâ€based esters for thermal energy storage by grafting with palmiticâ€stearic binary acids. Journal of Applied Polymer Science, 2017, 134, .	1.3	7
42	Prediction of thermal skin burn based on the combined mathematical model of the skin and clothing. Journal of the Textile Institute, 2018, 109, 1606-1612.	1.0	7
43	Electrospinning of continuous nanofiber hollow yarns for thermal storage and insulation by a multi-step twisting method. Textile Reseach Journal, 2020, 90, 1045-1056.	1.1	7
44	Experimental study on individual risk in crowds based on exerted force and human perceptions. Ergonomics, 2020, 63, 789-803.	1.1	7
45	Continuous aligned poly(metaâ€phenylene isophthalamide) fibers via stable jet electrospinning. Journal of Applied Polymer Science, 2016, 133, .	1.3	6
46	Modeling human domino process based on interactions among individuals for understanding crowd disasters. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121781.	1.2	6
47	A non-linear risk assessment method for chemical clusters based on fuzzy measure and Choquet integral. Journal of Loss Prevention in the Process Industries, 2022, 77, 104778.	1.7	5
48	Synergistic effects on the physical effects of explosions in multi-hazard coupling accidents in chemical industries. Journal of Loss Prevention in the Process Industries, 2022, 77, 104800.	1.7	5
49	Fate of the inhaled smoke particles from fire scenes in the nasal airway of a realistic firefighter: A simulation study. Journal of Occupational and Environmental Hygiene, 2019, 16, 273-285.	0.4	4
50	A cellular automaton evacuation model based on mobile robotâ€™s behaviors. Science Bulletin, 2007, 52, 680-684.	1.7	3
51	Analysis of geographical migration networks of bride trafficking crime from 2000 to 2018 in China. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124196.	1.2	1
52	A Numerical Tool for Assessing Disaster Related Injuries and Personal Protective Clothing. , 2019, , .		0