

Xiaole Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

904
citations

471371

17
h-index

477173

29
g-index

45
all docs

45
docs citations

45
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	Infection Risk Assessment of COVID-19 through Aerosol Transmission: a Case Study of South China Seafood Market. <i>Environmental Science & Technology</i> , 2021, 55, 4123-4133.	4.6	79
2	Empirical study of a unidirectional dense crowd during a real mass event. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 2781-2791.	1.2	67
3	Modified ensemble Kalman filter for nuclear accident atmospheric dispersion: Prediction improved and source estimated. <i>Journal of Hazardous Materials</i> , 2014, 280, 143-155.	6.5	61
4	A number-based inventory of size-resolved black carbon particle emissions by global civil aviation. <i>Nature Communications</i> , 2019, 10, 534.	5.8	52
5	Dose-response Relation Deduced for Coronaviruses From Coronavirus Disease 2019, Severe Acute Respiratory Syndrome, and Middle East Respiratory Syndrome: Meta-analysis Results and its Application for Infection Risk Assessment of Aerosol Transmission. <i>Clinical Infectious Diseases</i> , 2021, 73, e241-e245.	2.9	47
6	Sequential multi-nuclide emission rate estimation method based on gamma dose rate measurement for nuclear emergency management. <i>Journal of Hazardous Materials</i> , 2017, 325, 288-300.	6.5	41
7	Iterative ensemble Kalman filter for atmospheric dispersion in nuclear accidents: An application to Kincaid tracer experiment. <i>Journal of Hazardous Materials</i> , 2015, 297, 329-339.	6.5	38
8	Source term estimation of hazardous material releases using hybrid genetic algorithm with composite cost functions. <i>Engineering Applications of Artificial Intelligence</i> , 2018, 75, 102-113.	4.3	37
9	Comparison of the distribution of carbon monoxide concentration and temperature rise in channel fires: Reduced-scale experiments. <i>Applied Thermal Engineering</i> , 2011, 31, 528-536.	3.0	34
10	On the front velocity of buoyancy-driven transient ceiling jet in a horizontal corridor: Comparison of correlations with measurements. <i>Applied Thermal Engineering</i> , 2011, 31, 2992-2999.	3.0	33
11	Empirical study of crowd behavior during a real mass event. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P08012.	0.9	31
12	Ensemble-based release estimation for accidental river pollution with known source position. <i>Journal of Hazardous Materials</i> , 2017, 333, 99-108.	6.5	29
13	EnKF-based estimation of natural gas release and dispersion in an underground tunnel. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103931.	1.7	29
14	New insights into the crowd characteristics in Mina. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P11003.	0.9	27
15	Ensemble-based simultaneous emission estimates and improved forecast of radioactive pollution from nuclear power plant accidents: application to ETEX tracer experiment. <i>Journal of Environmental Radioactivity</i> , 2015, 142, 78-86.	0.9	27
16	Influence of Aviation Emission on the Particle Number Concentration near Zurich Airport. <i>Environmental Science & Technology</i> , 2020, 54, 14161-14171.	4.6	24
17	Influencing Factors of Flammable Refrigerants Leaking in Building Air-conditioning System. <i>Procedia Engineering</i> , 2013, 62, 648-654.	1.2	19
18	CFD and EnKF coupling estimation of LNG leakage and dispersion. <i>Safety Science</i> , 2021, 139, 105263.	2.6	19

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19	Prediction of gas leakage and dispersion in utility tunnels based on CFD-EnKF coupling model: A 3D full-scale application. <i>Sustainable Cities and Society</i> , 2022, 80, 103789.	5.1	18
20	Numerical estimation of gas release and dispersion in coal mine using Ensemble Kalman Filter. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 56, 57-67.	1.7	16
21	High fidelity simulation of ultrafine PM filtration by multiscale fibrous media characterized by a combination of X-ray CT and FIB-SEM. <i>Journal of Membrane Science</i> , 2021, 620, 118925.	4.1	16
22	Air path of antimicrobial resistance related genes from layer farms: Emission inventory, atmospheric transport, and human exposure. <i>Journal of Hazardous Materials</i> , 2022, 430, 128417.	6.5	14
23	Developing a High-Resolution Emission Inventory of China's Aviation Sector Using Real-World Flight Trajectory Data. <i>Environmental Science & Technology</i> , 2022, 56, 5743-5752.	4.6	14
24	One-way coupling of WRF with a Gaussian dispersion model: a focused fine-scale air pollution assessment on southern Mediterranean. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22892-22906.	2.7	13
25	SARS-CoV-2 and other airborne respiratory viruses in outdoor aerosols in three Swiss cities before and during the first wave of the COVID-19 pandemic. <i>Environment International</i> , 2022, 164, 107266.	4.8	13
26	Comparisons between a new point kernel-based scheme and the infinite plane source assumption method for radiation calculation of deposited airborne radionuclides from nuclear power plants. <i>Journal of Environmental Radioactivity</i> , 2018, 184-185, 32-45.	0.9	11
27	Self-aligned 3D microlenses in a chip fabricated with two-photon stereolithography for highly sensitive absorbance measurement. <i>Lab on A Chip</i> , 2020, 20, 2334-2342.	3.1	11
28	Analysis of school bus accidents in China. <i>Natural Hazards</i> , 2015, 79, 723-734.	1.6	9
29	Mitigation effects of alternative aviation fuels on non-volatile particulate matter emissions from aircraft gas turbine engines: A review. <i>Science of the Total Environment</i> , 2022, 820, 153233.	3.9	9
30	Contributions of Traffic and Industrial Emission Reductions to the Air Quality Improvement after the Lockdown of Wuhan and Neighboring Cities Due to COVID-19. <i>Toxics</i> , 2021, 9, 358.	1.6	9
31	Comparison of Turbulent Pedestrian Behaviors Between Mina and Love Parade. <i>Procedia Engineering</i> , 2014, 84, 708-714.	1.2	8
32	A 3D-cascade-microlens optofluidic chip for refractometry with adjustable sensitivity. <i>Lab on A Chip</i> , 2021, 21, 3784-3792.	3.1	8
33	PM2.5 drives bacterial functions for carbon, nitrogen, and sulfur cycles in the atmosphere. <i>Environmental Pollution</i> , 2022, 295, 118715.	3.7	8
34	Automatic plume episode identification and cloud shine reconstruction method for ambient gamma dose rates during nuclear accidents. <i>Journal of Environmental Radioactivity</i> , 2017, 178-179, 36-47.	0.9	7
35	Description and evaluation of the community aerosol dynamics model MAFOR v2.0. <i>Geoscientific Model Development</i> , 2022, 15, 3969-4026.	1.3	7
36	Experimental study on diffusive solid combustion behavior during transition from normal- to reduced-gravity. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 2035-2043.	2.5	5

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37	Quantifying respiratory tract deposition of airborne graphene nanoplatelets: The impact of plate-like shape and folded structure. <i>NanoImpact</i> , 2021, 21, 100292.	2.4	5
38	Colorimetric immunodetection of bacteria enriched on membranes within a compact multichannel filtration device. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131142.	4.0	2
39	Study on fire-rescue command system and key technology of ultra high-rise building. , 2012, , .		1
40	A number-based inventory of particle emissions by civil aviation and the influences on the particle number concentration near Zurich airport. , 0, , .		0