Bin Zhao

List of Publications by Year
in descending order

270 papers	14,783 citations	16437 64 h-index	25770 108 g-index
308 all docs	308 docs citations	308 times ranked	11956 citing authors

#	Article	IF	Citations
1	Review of relationship between indoor and outdoor particles: I/O ratio, infiltration factor and penetration factor. Atmospheric Environment, 2011, 45, 275-288.	1.9	710
2	Nitric Acid Purification of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 13838-13842.	1.2	472
3	NO_x emissions in China: historical trends and future perspectives. Atmospheric Chemistry and Physics, 2013, 13, 9869-9897.	1.9	359
4	The impact of the â€œAir Pollution Prevention and Control Action Planâ€•on PM2.5 concentrations in Jing-Jin-Ji region during 2012â€“2020. Science of the Total Environment, 2017, 580, 197-209.	3.9	344
5	Comparison of indoor aerosol particle concentration and deposition in different ventilated rooms by numerical method. Building and Environment, 2004, 39, 1-8.	3.0	337
6	Synthesis and Characterization of Water Soluble Single-Walled Carbon Nanotube Graft Copolymers. Journal of the American Chemical Society, 2005, 127, 8197-8203.	6.6	325
7	Emission inventory of primary pollutants and chemical speciation in 2010 for the Yangtze River Delta region, China. Atmospheric Environment, 2013, 70, 39-50.	1.9	286
8	A Bone Mimic Based on the Self-Assembly of Hydroxyapatite on Chemically Functionalized Single-Walled Carbon Nanotubes. Chemistry of Materials, 2005, 17, 3235-3241.	3.2	274
9	Emission trends and mitigation options for air pollutants in East Asia. Atmospheric Chemistry and Physics, 2014, 14, 6571-6603.	1.9	269
10	Change in household fuels dominates the decrease in PM _{2.5} exposure and premature mortality in China in 2005â€“2015. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12401-12406.	3.3	262
11	Association of the infection probability of COVID-19 with ventilation rates in confined spaces. Building Simulation, 2020, 13, 1321-1327.	3.0	256
12	Particulate matter pollution over China and the effects of control policies. Science of the Total Environment, 2017, 584-585, 426-447.	3.9	252
13	Spatiotemporal variations of PM2.5 and PM10 concentrations between 31 Chinese cities and their relationships with SO2, NO2, CO and O3. Particuology, 2015, 20, 141-149.	2.0	200
14	Impact of national NOx and SO2 control policies on particulate matter pollution in China. Atmospheric Environment, 2013, 77, 453-463.	1.9	199
15	Persistent Heavy Winter Nitrate Pollution Driven by Increased Photochemical Oxidants in Northern China. Environmental Science & Technology, 2020, 54, 3881-3889.	4.6	180
16	Emission Rates of Multiple Air Pollutants Generated from Chinese Residential Cooking. Environmental Science & Technology, 2018, 52, 1081-1087.	4.6	175
17	Impact of aerosolâ€“meteorology interactions on fine particle pollution during Chinaâ€™s severe haze episode in January 2013. Environmental Research Letters, 2014, 9, 094002.	2.2	172
18	Particle dispersion and deposition in ventilated rooms: Testing and evaluation of different Eulerian and Lagrangian models. Building and Environment, 2008, 43, 388-397.	3.0	168

#	Article	IF	Citations
19	Contributions of inter-city and regional transport to PM2.5 concentrations in the Beijing-Tianjin-Hebei region and its implications on regional joint air pollution control. Science of the Total Environment, 2019, 660, 1191-1200.	3.9	149
20	Numerical study of the transport of droplets or particles generated by respiratory system indoors. Building and Environment, 2005, 40, 1032-1039.	3.0	143
21	Effectiveness of national air pollution control policies on the air quality in metropolitan areas of China. Journal of Environmental Sciences, 2014, 26, 13-22.	3.2	138
22	Analysis of the Dynamic Interaction Between SVOCs and Airborne Particles. Aerosol Science and Technology, 2013, 47, 125-136.	1.5	134
23	Air infiltration rate distributions of residences in Beijing. Building and Environment, 2015, 92, 528-537.	3.0	131
24	Ozone and secondary organic aerosol formation potential from anthropogenic volatile organic compounds emissions in China. Journal of Environmental Sciences, 2017, 53, 224-237.	3.2	129
25	Impacts of coal burning on ambient PM_{2.5} pollution in China. Atmospheric Chemistry and Physics, 2017, 17, 4477-4491.	1.9	124
26	Modeling particle deposition from fully developed turbulent flow in ventilation duct. Atmospheric Environment, 2006, 40, 457-466.	1.9	123
27	Contribution of outdoor-originating particles, indoor-emitted particles and indoor secondary organic aerosol (SOA) to residential indoor PM2.5 concentration: A model-based estimation. Building and Environment, 2015, 90, 196-205.	3.0	122
28	Assessing the Influence of Indoor Exposure to â€œOutdoor Ozoneâ€•on the Relationship between Ozone and Short-term Mortality in U.S. Communities. Environmental Health Perspectives, 2012, 120, 235-240.	2.8	118
29	Emissions of air pollutants from Chinese cooking: A literature review. Building Simulation, 2018, 11, 977-995.	3.0	118
30	Indoor Exposure to â€œOutdoor PM10â€• Epidemiology, 2012, 23, 870-878.	1.2	114
31	Important fossil source contribution to brown carbon in Beijing during winter. Scientific Reports, 2017, 7, 43182.	1.6	111
32	Quantifying the effect of organic aerosol aging and intermediate-volatility emissions on regional-scale aerosol pollution in China. Scientific Reports, 2016, 6, 28815.	1.6	110
33	Decadal-scale trends in regional aerosol particle properties and their linkage to emission changes. Environmental Research Letters, 2017, 12, 054021.	2.2	109
34	Particle deposition in indoor environments: Analysis of influencing factors. Journal of Hazardous Materials, 2007, 147, 439-448.	6.5	108
35	A methodology for predicting particle penetration factor through cracks of windows and doors for actual engineering application. Building and Environment, 2012, 47, 339-348.	3.0	104
36	Transition in source contributions of PM2.5 exposure and associated premature mortality in China during 2005â€“2015. Environment International, 2019, 132, 105111.	4.8	104

#	Article	IF	Citations
37	Window opening behavior of occupants in residential buildings in Beijing. Building and Environment, 2017, 124, 441-449.	3.0	103
38	Environmental effects of the recent emission changes in China: implications for particulate matter pollution and soil acidification. Environmental Research Letters, 2013, 8, 024031.	2.2	101
39	Air purifiers: A supplementary measure to remove airborne SARS-CoV-2. Building and Environment, 2020, 177, 106918.	3.0	99
40	Modeling of ultrafine particle dispersion in indoor environments with an improved drift flux model. Journal of Aerosol Science, 2009, 40, 29-43.	1.8	97
41	A simplified system for indoor airflow simulation. Building and Environment, 2003, 38, 543-552.	3.0	96
42	Contrasting effects on deep convective clouds by different types of aerosols. Nature Communications, 2018, 9, 3874.	5.8	96
43	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017. Atmospheric Chemistry and Physics, 2019, 19, 12195-12207.	1.9	95
44	The effectiveness of an air cleaner in controlling droplet/aerosol particle dispersion emitted from a patient's mouth in the indoor environment of dental clinics. Journal of the Royal Society Interface, 2010, 7, 1105-1118.	1.5	94
45	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. Science of the Total Environment, 2017, 580, 283-296.	3.9	93
46	The quest for improved air quality may push China to continue its CO ₂ reduction beyond the Paris Commitment. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29535-29542.	3.3	93
47	A modeling study of the nonlinear response of fine particles to air pollutant emissions in the Beijingâ€“Tianjinâ€“Hebei region. Atmospheric Chemistry and Physics, 2017, 17, 12031-12050.	1.9	92
48	Occupantsâ€™ interactions with windows in 8 residential apartments in Beijing and Nanjing, China. Building Simulation, 2016, 9, 221-231.	3.0	91
49	Assessment of inter-city transport of particulate matter in the Beijingâ€“Tianjinâ€“Hebei region. Atmospheric Chemistry and Physics, 2018, 18, 4843-4858.	1.9	90
50	Regional differences in impacts of economic growth and urbanization on air pollutants in China based on provincial panel estimation. Journal of Cleaner Production, 2019, 208, 340-352.	4.6	90
51	Regional differences in nonlinear impacts of economic growth, export and FDI on air pollutants in China based on provincial panel data. Journal of Cleaner Production, 2019, 228, 455-466.	4.6	89
52	Assessment of short-term PM2.5-related mortality due to different emission sources in the Yangtze River Delta, China. Atmospheric Environment, 2015, 123, 440-448.	1.9	88
53	Residential Coal Combustion as a Source of Levoglucosan in China. Environmental Science & Technology, 2018, 52, 1665-1674.	4.6	83
54	Impact of air pollution control policies on future PM2.5 concentrations and their source contributions in China. Journal of Environmental Management, 2018, 227, 124-133.	3.8	82

#	Article	IF	Citations
55	Measuring the Short-Term Emission Rates of Particles in the â€œPersonal Cloudâ€•with Different Clothes and Activity Intensities in a Sealed Chamber. Aerosol and Air Quality Research, 2013, 13, 911-921.	0.9	79
56	Source, transport and impacts of a heavy dust event in the Yangtze River Delta, China, in 2011. Atmospheric Chemistry and Physics, 2014, 14, 1239-1254.	1.9	78
57	Modeling particle deposition onto rough walls in ventilation duct. Atmospheric Environment, 2006, 40, 6918-6927.	1.9	77
58	Mitigation Potential of Mercury Emissions from Coal-Fired Power Plants in China. Energy & Fuels, 2012, 26, 4635-4642.	2.5	73
59	Winter haze over North China Plain from 2009 to 2016: Influence of emission and meteorology. Environmental Pollution, 2018, 242, 1308-1318.	3.7	72
60	Indoor SVOC pollution in China: A review. Science Bulletin, 2010, 55, 1469-1478.	1.7	71
61	Modeled Exposure Assessment via Inhalation and Dermal Pathways to Airborne Semivolatile Organic Compounds (SVOCs) in Residences. Environmental Science & Technology, 2014, 48, 5691-5699.	4.6	71
62	Assessing the Future Vehicle Fleet Electrification: The Impacts on Regional and Urban Air Quality. Environmental Science & Technology, 2017, 51, 1007-1016.	4.6	71
63	Public health benefits of reducing air pollution in Shanghai: A proof-of-concept methodology with application to BenMAP. Science of the Total Environment, 2014, 485-486, 396-405.	3.9	68
64	Modifications of exposure to ambient particulate matter: Tackling bias in using ambient concentration as surrogate with particle infiltration factor and ambient exposure factor. Environmental Pollution, 2017, 220, 337-347.	3.7	68
65	Quantification of the enhanced effectiveness of NO_{<i>x</i>} control from simultaneous reductions of VOC and NH₃ for reducing air pollution in the Beijingâ€“Tianjinâ€“Hebei region, China. Atmospheric Chemistry and Physics, 2018, 18, 7709-7724.	1.9	68
66	Emission characteristics of PM2.5-bound chemicals from residential Chinese cooking. Building and Environment, 2019, 149, 623-629.	3.0	67
67	Ensemble prediction of air quality using the WRF/CMAQ model system for health effect studies in China. Atmospheric Chemistry and Physics, 2017, 17, 13103-13118.	1.9	64
68	Pollutant emissions from residential combustion and reduction strategies estimated via a village-based emission inventory in Beijing. Environmental Pollution, 2018, 238, 230-237.	3.7	64
69	Personal exposure to ambient PM2.5, PM10, O3, NO2, and SO2 for different populations in 31 Chinese provinces. Environment International, 2020, 144, 106018.	4.8	63
70	Ice nucleation by aerosols from anthropogenic pollution. Nature Geoscience, 2019, 12, 602-607.	5.4	62
71	Enhanced PM2.5 pollution in China due to aerosol-cloud interactions. Scientific Reports, 2017, 7, 4453.	1.6	61
72	Health co-benefits of achieving sustainable net-zero greenhouse gas emissions in California. Nature Sustainability, 2020, 3, 597-605.	11.5	61

#	Article	IF	Citations
73	Development of a unit-based industrial emission inventory in the Beijingâ€“Tianjinâ€“Hebei region and resulting improvement in air quality modeling. Atmospheric Chemistry and Physics, 2019, 19, 3447-3462.	1.9	60
74	Factors That Influence Renewable Energy Technological Innovation in China: A Dynamic Panel Approach. Sustainability, 2018, 10, 124.	1.6	59
75	Toxic potency-adjusted control of air pollution for solid fuel combustion. Nature Energy, 2022, 7, 194-202.	19.8	59
76	Investigating a safe ventilation rate for the prevention of indoor SARS transmission: An attempt based on a simulation approach. Building Simulation, 2009, 2, 281-289.	3.0	58
77	Estimating Mortality Derived from Indoor Exposure to Particles of Outdoor Origin. PLoS ONE, 2015, 10, e0124238.	1.1	57
78	Population inhalation exposure to polycyclic aromatic hydrocarbons and associated lung cancer risk in Beijing region: Contributions of indoor and outdoor sources and exposures. Atmospheric Environment, 2012, 62, 472-480.	1.9	56
79	Role of two-way airflow owing to temperature difference in severe acute respiratory syndrome transmission: revisiting the largest nosocomial severe acute respiratory syndrome outbreak in Hong Kong. Journal of the Royal Society Interface, 2011, 8, 699-710.	1.5	55
80	Quantifying Nonlinear Multiregional Contributions to Ozone and Fine Particles Using an Updated Response Surface Modeling Technique. Environmental Science & Technology, 2017, 51, 11788-11798.	4.6	55
81	The influence of aerosol dynamics on indoor exposure to airborne DEHP. Atmospheric Environment, 2010, 44, 1952-1959.	1.9	54
82	Evaluation of One-Dimensional and Two-Dimensional Volatility Basis Sets in Simulating the Aging of Secondary Organic Aerosol with Smog-Chamber Experiments. Environmental Science & Technology, 2015, 49, 2245-2254.	4.6	53
83	Different cardiorespiratory effects of indoor air pollution intervention with ionization air purifier: Findings from a randomized, double-blind crossover study among school children in Beijing. Environmental Pollution, 2019, 254, 113054.	3.7	53
84	Seesaw haze pollution in North China modulated by the sub-seasonal variability of atmospheric circulation. Atmospheric Chemistry and Physics, 2019, 19, 565-576.	1.9	53
85	Numerical analysis of particle deposition in ventilation duct. Building and Environment, 2006, 41, 710-718.	3.0	52
86	Intra-annual variations of regional aerosol optical depth, vertical distribution, and particle types from multiple satellite and ground-based observational datasets. Atmospheric Chemistry and Physics, 2018, 18, 11247-11260.	1.9	49
87	Nonlinear relationships between air pollutant emissions and PM2.5-related health impacts in the Beijing-Tianjin-Hebei region. Science of the Total Environment, 2019, 661, 375-385.	3.9	49
88	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25344-25351.	3.3	49
89	Numerical Study of Particle Deposition in Two Differently Ventilated Rooms. Indoor and Built Environment, 2004, 13, 443-451.	1.5	48
90	Investigating the geographical heterogeneity in PM10-mortality associations in the China Air Pollution and Health Effects Study (CAPES): A potential role of indoor exposure to PM10 of outdoor origin. Atmospheric Environment, 2013, 75, 217-223.	1.9	48

#	Article	IF	Citations
91	Assessing the nonlinear response of fine particles to precursor emissions: development and application of an extended response surface modeling technique v1.0. Geoscientific Model Development, 2015, 8, 115-128.	1.3	48
92	Numerical Investigation of Particle Diffusion in a Clean Room. Indoor and Built Environment, 2005, 14, 469-479.	1.5	47
93	Modeling particle dispersion in personalized ventilated room. Building and Environment, 2007, 42, 1099-1109.	3.0	46
94	Is oil temperature a key factor influencing air pollutant emissions from Chinese cooking?. Atmospheric Environment, 2018, 193, 190-197.	1.9	45
95	Metabolic linkages between indoor negative air ions, particulate matter and cardiorespiratory function: A randomized, double-blind crossover study among children. Environment International, 2020, 138, 105663.	4.8	44
96	Full-volatility emission framework corrects missing and underestimated secondary organic aerosol sources. One Earth, 2022, 5, 403-412.	3.6	44
97	Accessibility: A New Concept to Evaluate Ventilation Performance in a Finite Period of Time. Indoor and Built Environment, 2004, 13, 287-293.	1.5	43
98	A new approach on zonal modeling of indoor environment with mechanical ventilation. Building and Environment, 2008, 43, 278-286.	3.0	41
99	Associations of particulate air pollution and daily mortality in 16 Chinese cities: An improved effect estimate after accounting for the indoor exposure to particles of outdoor origin. Environmental Pollution, 2013, 182, 278-282.	3.7	41
100	City-specific vehicle emission control strategies to achieve stringent emission reduction targets in China's Yangtze River Delta region. Journal of Environmental Sciences, 2017, 51, 75-87.	3.2	41
101	Decomposition Analysis of the Factors that Influence Energy Related Air Pollutant Emission Changes in China Using the SDA Method. Sustainability, 2017, 9, 1742.	1.6	41
102	Different health effects of indoorâ€•and outdoorâ€•originated PM _{2.5} on cardiopulmonary function in COPD patients and healthy elderly adults. Indoor Air, 2019, 29, 192-201.	2.0	41
103	Wintertime Particulate Matter Decrease Buffered by Unfavorable Chemical Processes Despite Emissions Reductions in China. Geophysical Research Letters, 2020, 47, e2020GL087721.	1.5	40
104	How Many Airborne Particles Emitted from a Nurse will Reach the Breathing Zone/Body Surface of the Patient in ISO Class-5 Single-Bed Hospital Protective Environments?â€”A Numerical Analysis. Aerosol Science and Technology, 2009, 43, 990-1005.	1.5	39
105	Investigating external and internal pressures on corporate environmental behavior in papermaking enterprises of China. Journal of Cleaner Production, 2018, 172, 1193-1211.	4.6	39
106	Understanding of Aerosolâ€“Climate Interactions in China: Aerosol Impacts on Solar Radiation, Temperature, Cloud, and Precipitation and Its Changes Under Future Climate and Emission Scenarios. Current Pollution Reports, 2019, 5, 36-51.	3.1	39
107	How Particle Resuspension from Inner Surfaces of Ventilation Ducts Affects Indoor Air Qualityâ€”A Modeling Analysis. Aerosol Science and Technology, 2011, 45, 996-1009.	1.5	38
108	The ventilation needed to control thermal plume and particle dispersion from manikins in a unidirectional ventilated protective isolation room. Building Simulation, 2015, 8, 551-565.	3.0	38

#	Article	IF	Citations
109	Climate-driven trends of biogenic volatile organic compound emissions and their impacts on summertime ozone and secondary organic aerosol in China in the 2050s. Atmospheric Environment, 2019, 218, 117020.	1.9	38
110	Comparison of the predicted concentration of outdoor originated indoor polycyclic aromatic hydrocarbons between a kinetic partition model and a linear instantaneous model for gasâ€“particle partition. Atmospheric Environment, 2012, 59, 93-101.	1.9	37
111	Study on the carbon dioxide lockup phenomenon in aircraft cabin by computational fluid dynamics. Building Simulation, 2015, 8, 431-441.	3.0	37
112	The exposure metric choices have significant impact on the association between short-term exposure to outdoor particulate matter and changes in lung function: Findings from a panel study in chronic obstructive pulmonary disease patients. Science of the Total Environment, 2016, 542, 264-270.	3.9	37
113	Impact of aerosols on ice crystal size. Atmospheric Chemistry and Physics, 2018, 18, 1065-1078.	1.9	37
114	Environmental impact of national and subnational carbon policies in China based on a multi-regional dynamic CGE model. Journal of Environmental Management, 2020, 270, 110901.	3.8	37
115	Health effects of exposure to indoor volatile organic compounds from 1980 to 2017: A systematic review and metaâ€analysis. Indoor Air, 2022, 32, .	2.0	37
116	Prediction of transient contaminant dispersion and ventilation performance using the concept of accessibility. Energy and Buildings, 2004, 36, 293-299.	3.1	36
117	Numerical study of the effects of trees on outdoor particle concentration distributions. Building Simulation, 2014, 7, 417-427.	3.0	36
118	Indoor exposure levels of bacteria and fungi in residences, schools, and offices in China: A systematic review. Indoor Air, 2020, 30, 1147-1165.	2.0	36
119	Persistent high PM2.5 pollution driven by unfavorable meteorological conditions during the COVID-19 lockdown period in the Beijing-Tianjin-Hebei region, China. Environmental Research, 2021, 198, 111186.	3.7	36
120	Effect of particle spatial distribution on particle deposition in ventilation rooms. Journal of Hazardous Materials, 2009, 170, 449-456.	6.5	35
121	Comparison of Three Approaches to Model Particle Penetration Coefficient through a Single Straight Crack in a Building Envelope. Aerosol Science and Technology, 2010, 44, 405-416.	1.5	35
122	Reducing human exposure to PM2.5 generated while cooking typical Chinese cuisine. Building and Environment, 2020, 168, 106522.	3.0	35
123	Development and Assessment of a High-Resolution Biogenic Emission Inventory from Urban Green Spaces in China. Environmental Science & Technology, 2022, 56, 175-184.	4.6	35
124	Estimating indoor semi-volatile organic compounds (SVOCs) associated with settled dust by an integrated kinetic model accounting for aerosol dynamics. Atmospheric Environment, 2015, 107, 52-61.	1.9	34
125	Calculation and decomposition of China's embodied air pollutants in Sino-US trade. Journal of Cleaner Production, 2019, 209, 978-994.	4.6	34
126	Numerical analysis of outdoor thermal environment around buildings. Building and Environment, 2005, 40, 853-866.	3.0	33

#	Article	IF	Citations
127	Deposition of Indoor Airborne Particles onto Human Body Surfaces: A Modeling Analysis and Manikin-Based Experimental Study. Aerosol Science and Technology, 2013, 47, 1363-1373.	1.5	33
128	Photochemical roles of rapid economic growth and potential abatement strategies on tropospheric ozone over South and East Asia in 2030. Atmospheric Chemistry and Physics, 2014, 14, 9259-9277.	1.9	33
129	Reduction in population exposure to PM 2.5 and cancer risk due to PM 2.5 -bound PAHs exposure in Beijing, China during the APEC meeting. Environmental Pollution, 2017, 225, 338-345.	3.7	33
130	Typeâ€Dependent Responses of Ice Cloud Properties to Aerosols From Satellite Retrievals. Geophysical Research Letters, 2018, 45, 3297-3306.	1.5	33
131	Estimation of abatement potentials and costs of air pollution emissions in China. Journal of Environmental Management, 2020, 260, 110069.	3.8	33
132	An experimental study on short-time particle resuspension from inner surfaces of straight ventilation ducts. Building and Environment, 2012, 53, 119-127.	3.0	32
133	Impacts of biogenic emissions from urban landscapes on summer ozone and secondary organic aerosol formation in megacities. Science of the Total Environment, 2022, 814, 152654.	3.9	32
134	Indoor sources strongly contribute to exposure of Chinese urban residents to PM2.5 and NO2. Journal of Hazardous Materials, 2022, 426, 127829.	6.5	31
135	Reducing airborne infection risk of COVID-19 by locating air cleaners at proper positions indoor: Analysis with a simple model. Building and Environment, 2022, 213, 108864.	3.0	31
136	Person to person droplets transmission characteristics in unidirectional ventilated protective isolation room: The impact of initial droplet size. Building Simulation, 2016, 9, 597-606.	3.0	30
137	Emission rates of ultrafine and fine particles generated from human smoking of Chinese cigarettes. Atmospheric Environment, 2018, 194, 7-13.	1.9	30
138	Using an air purifier as a supplementary protective measure in dental clinics during the coronavirus disease 2019 (COVID-19) pandemic. Infection Control and Hospital Epidemiology, 2021, 42, 493-493.	1.0	30
139	Non-negligible contributions to human health from increased household air pollution exposure during the COVID-19 lockdown in China. Environment International, 2022, 158, 106918.	4.8	30
140	Iceâ€Nucleating Particles That Impact Clouds and Climate: Observational and Modeling Research Needs. Reviews of Geophysics, 2022, 60, .	9.0	29
141	Tracer element for indoor PM2.5 in China migrated from outdoor. Atmospheric Environment, 2018, 176, 171-178.	1.9	28
142	Responses of gaseous sulfuric acid and particulate sulfate to reduced SO2 concentration: A perspective from long-term measurements in Beijing. Science of the Total Environment, 2020, 721, 137700.	3.9	28
143	Health benefits and cost of using air purifiers to reduce exposure to ambient fine particulate pollution in China. Journal of Hazardous Materials, 2021, 414, 125540.	6.5	28
144	Breathing-rate adjusted population exposure to ozone and its oxidation products in 333 cities in China. Environment International, 2020, 138, 105617.	4.8	27

#	Article	IF	Citations
145	Atmospheric S and N deposition relates to increasing riverine transport of S and N in southwest China: Implications for soil acidification. Environmental Pollution, 2016, 218, 1191-1199.	3.7	26
146	Air Quality and Health Cobenefits of Different Deep Decarbonization Pathways in California. Environmental Science & Technology, 2019, 53, 7163-7171.	4.6	26
147	Modeling the impact of COVID-19 on air quality in southern California: implications for future control policies. Atmospheric Chemistry and Physics, 2021, 21, 8693-8708.	1.9	26
148	Size-dependent efficiencies of ultrafine particle removal of various filter media. Building and Environment, 2019, 160, 106171.	3.0	25
149	The impact of aerosolâ€“radiation interactions on the effectiveness of emission control measures. Environmental Research Letters, 2019, 14, 024002.	2.2	25
150	Role of emission controls in reducing the 2050 climate change penalty for PM2.5 in China. Science of the Total Environment, 2021, 765, 144338.	3.9	25
151	Preventing the entry of outdoor particles with the indoor positive pressure control method: Analysis of influencing factors and cost. Building and Environment, 2011, 46, 1167-1173.	3.0	24
152	Developing an Empirical Equation for Modeling Particle Deposition Velocity onto Inclined Surfaces in Indoor Environments. Aerosol Science and Technology, 2012, 46, 1090-1099.	1.5	24
153	A Particle Resuspension Model in Ventilation Ducts. Aerosol Science and Technology, 2012, 46, 222-235.	1.5	24
154	Assessment of turbulence models and air supply opening models for CFD modelling of airflow and gaseous contaminant distributions in aircraft cabins. Indoor and Built Environment, 2018, 27, 606-621.	1.5	24
155	Emissions of Phthalates from Indoor Flat Materials in Chinese Residences. Environmental Science & Technology, 2018, 52, 13166-13173.	4.6	24
156	Simulation and health risk assessment of residential particle pollution by coal combustion in China. Building and Environment, 2007, 42, 614-622.	3.0	23
157	Impact of energy structure adjustment on air quality: a case study in Beijing, China. Frontiers of Environmental Science and Engineering in China, 2011, 5, 378-390.	0.8	23
158	Deposition velocity of fine and ultrafine particles onto manikin surfaces in indoor environment of different facial air speeds. Building and Environment, 2014, 81, 388-395.	3.0	23
159	Time-activity pattern observatory from mobile web logs. International Journal of Embedded Systems, 2015, 7, 71.	0.2	22
160	Is surface water acidification a serious regional issue in China?. Science of the Total Environment, 2017, 584-585, 783-790.	3.9	22
161	Effect of residential air cleaning interventions on risk of cancer associated with indoor semi-volatile organic compounds: a comprehensive simulation study. Lancet Planetary Health, The, 2018, 2, e532-e539.	5.1	22
162	Health Benefits and Costs of Clean Heating Renovation: An Integrated Assessment in a Major Chinese City. Environmental Science & Technology, 2021, 55, 10046-10055.	4.6	22

#	Article	IF	Citations
163	Chemical composition of outdoor and indoor PM_{2.5}collected during haze events: Transformations and modified source contributions resulting from outdoor-to-indoor transport. Indoor Air, 2018, 28, 828-839.	2.0	21
164	Benefit of Chinaâ€™s reduction in nitrogen oxides emission to natural ecosystems in East Asia with respect to critical load exceedance. Environment International, 2020, 136, 105468.	4.8	21
165	Effect of ventilation duct as a particle filter. Building and Environment, 2007, 42, 2523-2529.	3.0	20
166	Unveiling the dipole synergic effect of biogenic and anthropogenic emissions on ozone concentrations. Science of the Total Environment, 2022, 818, 151722.	3.9	20
167	Impact of two-way air flow due to temperature difference on preventing the entry of outdoor particles using indoor positive pressure control method. Journal of Hazardous Materials, 2011, 186, 1290-1299.	6.5	19
168	Performance of wearable ionization air cleaners: Ozone emission and particle removal. Aerosol Science and Technology, 2016, 50, 211-221.	1.5	19
169	Modeling Study of the Air Quality Impact of Recordâ€Breaking Southern California Wildfires in December 2017. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6554-6570.	1.2	19
170	Evaluation of regional transport of PM2.5 during severe atmospheric pollution episodes in the western Yangtze River Delta, China. Journal of Environmental Management, 2021, 293, 112827.	3.8	19
171	Source impact and contribution analysis of ambient ozone using multi-modeling approaches over the Pearl River Delta region, China. Environmental Pollution, 2021, 289, 117860.	3.7	19
172	Revised Air-Exchange Efficiency Considering Occupant Distribution in Ventilated Rooms. Journal of the Air and Waste Management Association, 2003, 53, 759-763.	0.9	18
173	An integrated modeling tool for simultaneous analysis of thermal performance and indoor air quality in buildings. Building and Environment, 2008, 43, 287-293.	3.0	17
174	A comparative study of the effects of ventilation-purification strategies on air quality and energy consumption in Beijing, China. Building Simulation, 2021, 14, 813-825.	3.0	17
175	Air quality impact of the Northern California Camp Fire of November 2018. Atmospheric Chemistry and Physics, 2020, 20, 14597-14616.	1.9	17
176	LOCAL HYDRODYNAMICS IN AN EXTERNAL LOOP AIRLIFT SLURRY REACTOR WITH AND WITHOUT A RESISTANCE-REGULATING ELEMENT. Chemical Engineering Communications, 2004, 191, 1024-1042.	1.5	16
177	A case study of development and application of a streamlined control and response modeling system for PM2.5 attainment assessment in China. Journal of Environmental Sciences, 2016, 41, 69-80.	3.2	16
178	Factors affecting occupantsâ€™ interactions with windows in residential buildings in Beijing, China. Procedia Engineering, 2017, 205, 3428-3434.	1.2	16
179	Potential reductions in premature mortality attributable to PM2.5 by reducing indoor pollution: A model analysis for Beijing-Tianjin-Hebei of China. Environmental Pollution, 2019, 245, 260-271.	3.7	16
180	Assessing aerosol indirect effect on clouds and regional climate of East/South Asia and West Africa using NCEP GFS. Climate Dynamics, 2019, 52, 5759-5774.	1.7	16

#	Article	IF	Citations
181	Surface Brightening in Eastern and Central China Since the Implementation of the Clean Air Action in 2013: Causes and Implications. Geophysical Research Letters, 2021, 48, e2020GL091105.	1.5	16
182	Indoor PM2.5 concentrations in China: A concise review of the literature published in the past 40 years. Building and Environment, 2021, 198, 107898.	3.0	16
183	Mathematical models for macro-scale mass transfer in airlift loop reactors. Chemical Engineering Journal, 2006, 119, 19-26.	6.6	15
184	Research on Flow Resistance Characteristics with Different Window/Door Opening Angles. HVAC and R Research, 2010, 16, 813-824.	0.9	15
185	Impact of buildings on surface solar radiation over urban Beijing. Atmospheric Chemistry and Physics, 2016, 16, 5841-5852.	1.9	15
186	A modified Brownian force for ultrafine particle penetration through building crack modeling. Atmospheric Environment, 2017, 170, 143-148.	1.9	15
187	Is there a timelier solution to air pollution in today's cities?. Lancet Planetary Health, The, 2018, 2, e240.	5.1	15
188	Increasing cardiopulmonary effects of ultrafine particles at relatively low fine particle concentrations. Science of the Total Environment, 2021, 751, 141726.	3.9	15
189	Co-benefits of subnationally differentiated carbon pricing policies in China: Alleviation of heavy PM2.5 pollution and improvement in environmental equity. Energy Policy, 2021, 149, 112060.	4.2	15
190	The WHO Air Quality Guidelines 2021 promote great challenge for indoor air. Science of the Total Environment, 2022, 827, 154376.	3.9	15
191	Determining ventilation strategy to defend indoor environment against contamination by integrated accessibility of contaminant source (IACS). Building and Environment, 2004, 39, 1035-1042.	3.0	14
192	A simplified methodology for the prediction of mean air velocity and particle concentration in isolation rooms with downward ventilation systems. Building and Environment, 2010, 45, 1847-1853.	3.0	14
193	High cloud variations with surface temperature from 2002 to 2015: Contributions to atmospheric radiative cooling rate and precipitation changes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5457-5471.	1.2	14
194	A simple method for differentiating direct and indirect exposure to exhaled contaminants in mechanically ventilated rooms. Building Simulation, 2018, 11, 1039-1051.	3.0	14
195	Impacts of aerosols on seasonal precipitation and snowpack in California based on convection-permitting WRF-Chem simulations. Atmospheric Chemistry and Physics, 2018, 18, 5529-5547.	1.9	14
196	Variations and Sources of Organic Aerosol in Winter Beijing under Markedly Reduced Anthropogenic Activities During COVID-2019. Environmental Science & Technology, 2022, 56, 6956-6967.	4.6	14
197	Evaluating the real changes of air quality due to clean air actions using a machine learning technique: Results from 12 Chinese mega-cities during 2013â€“2020. Chemosphere, 2022, 300, 134608.	4.2	14
198	Perceived Particle Intensity: An Indicator to Evaluate Indoor Particle Pollution. Indoor and Built Environment, 2006, 15, 155-164.	1.5	13

#	Article	IF	Citations
199	Measurement of ozone deposition velocity onto human surfaces of Chinese residents and estimation of corresponding production of oxidation products. Environmental Pollution, 2020, 266, 115215.	3.7	13
200	Indoor exposure levels of ammonia in residences, schools, and offices in China from 1980 to 2019: A systematic review. Indoor Air, 2021, 31, 1691-1706.	2.0	13
201	Comprehensive chemical characterization of gaseous I/SVOC emissions from heavy-duty diesel vehicles using two-dimensional gas chromatography time-of-flight mass spectrometry. Environmental Pollution, 2022, 305, 119284.	3.7	13
202	A simplified method for assessing particle deposition rate in aircraft cabins. Atmospheric Environment, 2013, 67, 80-84.	1.9	12
203	State-space analysis of influencing factors on airborne particle concentration in aircraft cabins. Building and Environment, 2014, 74, 13-21.	3.0	12
204	Six-day measurement of size-resolved indoor fluorescent bioaerosols of outdoor origin in an office. Particuology, 2017, 31, 161-169.	2.0	12
205	Surface removal rate of ozone in residences in China. Building and Environment, 2018, 142, 101-106.	3.0	12
206	Mortality burdens in California due to air pollution attributable to local and nonlocal emissions. Environment International, 2019, 133, 105232.	4.8	12
207	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. Environmental Science & Technology, 2021, 55, 4357-4367.	4.6	12
208	The trend of natural ventilation potential in 74 Chinese cities from 2014 to 2019: Impact of air pollution and climate change. Building and Environment, 2022, 218, 109146.	3.0	12
209	Numerical Investigation on the Influence of Contaminant Source Location, Occupant Distribution and Air Distribution on Emergency Ventilation Strategy. Indoor and Built Environment, 2005, 14, 455-467.	1.5	11
210	Modeling particle fate in ventilation systemâ€"Part I: Model development. Building and Environment, 2009, 44, 605-611.	3.0	11
211	Lagrangian Stochastic Particle Tracking: Further Discussion. Aerosol Science and Technology, 2011, 45, 901-902.	1.5	11
212	Source strength of ultrafine and fine particle due to Chinese cooking. Procedia Engineering, 2017, 205, 2231-2237.	1.2	11
213	Outdoor-to-indoor transport of ultrafine particles: Measurement and model development of infiltration factor. Environmental Pollution, 2020, 267, 115402.	3.7	11
214	Indoor exposure levels of radon in dwellings, schools, and offices in China from 2000 to 2020: A systematic review. Indoor Air, 2021, , .	2.0	11
215	Analysis of Intervention Strategies for Inhalation Exposure to Polycyclic Aromatic Hydrocarbons and Associated Lung Cancer Risk Based on a Monte Carlo Population Exposure Assessment Model. PLoS ONE, 2014, 9, e85676.	1.1	11
216	Source contribution analysis of PM2.5 using Response Surface Model and Particulate Source Apportionment Technology over the PRD region, China. Science of the Total Environment, 2022, 818, 151757.	3.9	11

#	Article	IF	Citations
217	Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. ACS Earth and Space Chemistry, 2022, 6, 380-390.	1.2	11
218	The striking effect of vertical mixing in the planetary boundary layer on new particle formation in the Yangtze River Delta. Science of the Total Environment, 2022, 829, 154607.	3.9	11
219	Cooking generated particlesâ€™ impact on indoor air quality of university cafeteria. Building Simulation, 2010, 3, 15-23.	3.0	10
220	A wind tunnel study on the effect of trees on PM2.5 distribution around buildings. Journal of Hazardous Materials, 2018, 346, 36-41.	6.5	10
221	What Factors Drive Air Pollutants in China? An Analysis from the Perspective of Regional Difference Using a Combined Method of Production Decomposition Analysis and Logarithmic Mean Divisia Index. Sustainability, 2019, 11, 4650.	1.6	10
222	Air Supply Opening Model of Ceiling Diffusers for Numerical Simulation of Indoor Air Distribution under Actual Connected Conditions, Part II: Application of the Model. Numerical Heat Transfer; Part A: Applications, 2006, 49, 821-830.	1.2	9
223	SOA in newly decorated residential buildings. Building and Environment, 2017, 111, 132-139.	3.0	9
224	Size-dependent filtration efficiencies of face masks and respirators for removing SARS-CoV-2â€“laden aerosols. Infection Control and Hospital Epidemiology, 2020, 42, 1-2.	1.0	9
225	Improvements of response surface modeling with self-adaptive machine learning method for PM2.5 and O3 predictions. Journal of Environmental Management, 2022, 303, 114210.	3.8	9
226	Suppression of anthropogenic secondary organic aerosol formation by isoprene. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	9
227	Benefits from disease-burden reduction for type 2 diabetes and obesity through comprehensive regulatory restrictions on phthalate use in China. One Earth, 2022, 5, 380-391.	3.6	9
228	Particulate pollution in ventilated space: Analysis of influencing factors. Journal of Hazardous Materials, 2009, 163, 454-462.	6.5	8
229	Measurement of natural ventilation rate of residences in Beijing, China. Procedia Engineering, 2017, 205, 3435-3440.	1.2	8
230	Modeling Volatility-Based Aerosol Phase State Predictions in the Amazon Rainforest. ACS Earth and Space Chemistry, 2021, 5, 2910-2924.	1.2	8
231	Restrictions on indoor and outdoor NO2 emissions to reduce disease burden for pediatric asthma in China: A modeling study. The Lancet Regional Health - Western Pacific, 2022, 24, 100463.	1.3	8
232	Influence of Diffuser Jet Characteristics on Indoor Air Distribution under Actual Connecting Conditions. Journal of Architectural Engineering, 2003, 9, 141-144.	0.8	7
233	Air Supply Opening Model of Ceiling Diffusers for Numerical Simulation of Indoor Air Distribution under Actual Connected Conditions, Part I: Model Developmentâ^—. Numerical Heat Transfer; Part A: Applications, 2006, 50, 45-61.	1.2	7
234	Estimation of the contribution of secondary organic aerosol to PM2.0 concentration in aircraft cabins. Building and Environment, 2014, 82, 267-273.	3.0	7

#	Article	IF	Citations
235	An accurate and low-cost PM<inf>2.5</inf> estimation method based on Artificial Neural Network. , 2015, , .		7
236	Impacts of U.S. Carbon Tariffs on Chinaâ€™s Foreign Trade and Social Welfare. Sustainability, 2019, 11, 5278.	1.6	7
237	Typeâ€Dependent Impact of Aerosols on Precipitation Associated With Deep Convective Cloud Over East Asia. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	7
238	How will window opening change under global warming: A study for China residence. Building and Environment, 2022, 209, 108672.	3.0	7
239	Volatile products generated from reactions between ozone and human skin lipids: A modelling estimation. Building and Environment, 2022, 217, 109068.	3.0	7
240	A simple model to study the influence of fluctuating airflow on the effective air exchange rate when using natural ventilation. Building Simulation, 2009, 2, 63-66.	3.0	6
241	Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. ACS Earth and Space Chemistry, 2022, 6, 932-942.	1.2	6
242	Diurnal variations of fossil and nonfossil carbonaceous aerosols in Beijing. Atmospheric Environment, 2015, 122, 349-356.	1.9	5
243	Largeâ€scale meteorological control on the spatial pattern of wintertime PM 2.5 pollution over China. Atmospheric Science Letters, 2019, 20, e938.	0.8	5
244	Modeling study of the impact of complex terrain on the surface energy and hydrology over the Tibetan Plateau. Climate Dynamics, 2019, 53, 6919-6932.	1.7	5
245	Evaluation of a New Chemical Mechanism for 2-Amino-2-methyl-1-propanol in a Reactive Environment from CSIRO Smog Chamber Experiments. Environmental Science & Technology, 2020, 54, 9844-9853.	4.6	5
246	Fluxes of H2S and SO2 above a subtropical forest under natural and disturbed conditions induced by temporal land-use change. Science of the Total Environment, 2022, 811, 152084.	3.9	5
247	Modeling particle fate in ventilation systemâ€”Part II: Case study. Building and Environment, 2009, 44, 612-620.	3.0	4
248	Critical loads of headwater streams in China using SSWC model modified by comprehensive F-factor. Science of the Total Environment, 2022, 802, 149780.	3.9	4
249	Role of black carbon in modulating aerosol direct effects driven by air pollution controls during 2013â€“2017 in China. Science of the Total Environment, 2022, 832, 154928.	3.9	4
250	A chemical dynamic model for the infiltration of outdoor sizeâ€resolved ammonium nitrate aerosols to indoor environments. Indoor Air, 2020, 30, 275-283.	2.0	3
251	Ozone reactive compounds measured in skin wipes from Chinese volunteers. Building and Environment, 2021, 188, 107515.	3.0	3
252	Satellite-Derived Aerosol Optical Depth Fusion Combining Active and Passive Remote Sensing Based on Bayesian Maximum Entropy. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	3

#	Article	IF	Citations
253	Impact of Outdoor Particles on Indoor Air. , 2021, , 1-23.		3
254	Comparison of Indoor Environment of a Locally Concentrated Cleanroom at Occupied and Unoccupied Status by Numerical Method. Journal of the IEST, 2004, 47, 94-100.	0.2	3
255	Analysis of Particle Pollution in an Office by the Concept of Perceived Particle Intensity. Indoor and Built Environment, 2006, 15, 463-472.	1.5	2
256	PROBE-PM: A new way to simulate particle transport in ventilation systems. Building Simulation, 2008, 1, 158-168.	3.0	2
257	What Influences the Cross-Border Air Pollutant Transfer in Chinaâ€“United States Trade: A Comparative Analysis Using the Extended IO-SDA Method. Sustainability, 2019, 11, 6252.	1.6	2
258	Impact of Climate-Driven Land-Use Change on O3 and PM Pollution by Driving BVOC Emissions in China in 2050. Atmosphere, 2022, 13, 1086.	1.0	2
259	Particles, aerosols, and their transport in the built environment. Atmospheric Environment, 2007, 41, 5179-5180.	1.9	1
260	Application of building simulation tools for studying airborne infection and its control. Building Simulation, 2012, 5, 3-4.	3.0	1
261	Investigating factors causing difference of indoor exposure to outdoor PM2.5-bounded elemental carbon during different seasons and haze/non-haze days using a Monte Carlo framework. Atmospheric Environment, 2019, 200, 61-68.	1.9	1
262	Control of fine particulate pollution inside entrance booths. Building and Environment, 2020, 169, 106576.	3.0	1
263	Numerical Analysis of Microclimate of Desk Displacement Ventilation Using a Zero-equation Turbulence Model. Journal of the IEST, 2004, 47, 1-14.	0.2	1
264	Megacity, Microscale Livable Space, and Major Depression. JAMA Network Open, 2021, 4, e2130941.	2.8	1
265	Investigation of Springtime Cloud Influence on Regional Climate and Its Implication in Runoff Decline in Upper Colorado River Basin. Earth and Space Science, 2022, 9, .	1.1	1
266	Size-Dependent Removal Efficiency of Mechanical Ventilation System with Air Filtration Unit for Nanoparticles. Environmental Science and Engineering, 2020, , 403-409.	0.1	0
267	Investigations for Reducing Personal Exposure to PM2.5 from Residential Chinese Cooking Based on CFD Simulation. Environmental Science and Engineering, 2020, , 279-286.	0.1	0
268	Reduction of Human Exposure and Premature Deaths by Indoor PM2.5 Cleaning in Beijing, China. Environmental Science and Engineering, 2020, , 717-724.	0.1	0
269	Estimated Secondary Organic Carbon (SOC) in PM2.5 from Chinese Cooking via Minimum OC/EC Ratio Method. Environmental Science and Engineering, 2020, , 287-292.	0.1	0
270	Estimation of Human Exposure and Environment Burden of Disease Caused by PM2.5 Pollution in Beijing, China. Environmental Science and Engineering, 2020, , 709-715.	0.1	0