Bin Zhao

List of Publications by Citations

267 papers	10,495 citations	55 h-index	92 g-index
308 ext. papers	12,642 ext. citations	6.9 avg, IF	6.91 L-index

#	Paper	IF	Citations
267	Review of relationship between indoor and outdoor particles: I/O ratio, infiltration factor and penetration factor. *Atmospheric Environment*, **2011**, 45, 275-288	5.3	558
266	Nitric Acid Purification of Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry B*, **2003**, 107, 13838-13842	3.4	422
265	Synthesis and characterization of water soluble single-walled carbon nanotube graft copolymers. *Journal of the American Chemical Society*, **2005**, 127, 8197-203	16.4	299
264	NO_x emissions in China: historical trends and future perspectives. *Atmospheric Chemistry and Physics*, **2013**, 13, 9869-9897	6.8	292
263	Comparison of indoor aerosol particle concentration and deposition in different ventilated rooms by numerical method. *Building and Environment*, **2004**, 39, 1-8	6.5	261
262	The impact of the "Air Pollution Prevention and Control Action Plan" on PM concentrations in Jing-Jin-Ji region during 2012-2020. *Science of the Total Environment*, **2017**, 580, 197-209	10.2	252
261	A Bone Mimic Based on the Self-Assembly of Hydroxyapatite on Chemically Functionalized Single-Walled Carbon Nanotubes. *Chemistry of Materials*, **2005**, 17, 3235-3241	9.6	249
260	Emission inventory of primary pollutants and chemical speciation in 2010 for the Yangtze River Delta region, China. *Atmospheric Environment*, **2013**, 70, 39-50	5.3	235
259	Emission trends and mitigation options for air pollutants in East Asia. *Atmospheric Chemistry and Physics*, **2014**, 14, 6571-6603	6.8	218
258	Particulate matter pollution over China and the effects of control policies. *Science of the Total Environment*, **2017**, 584-585, 426-447	10.2	193
257	Change in household fuels dominates the decrease in PM exposure and premature mortality in China in 2005-2015. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 12401-12406	11.5	175
256	Impact of national NOx and SO2 control policies on particulate matter pollution in China. *Atmospheric Environment*, **2013**, 77, 453-463	5.3	173
255	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	2.8	155
254	Impact of aerosol□meteorology interactions on fine particle pollution during China□s severe haze episode in January 2013. *Environmental Research Letters*, **2014**, 9, 094002	6.2	146
253	Particle dispersion and deposition in ventilated rooms: Testing and evaluation of different Eulerian and Lagrangian models. *Building and Environment*, **2008**, 43, 388-397	6.5	123
252	Association of the infection probability of COVID-19 with ventilation rates in confined spaces. *Building Simulation*, **2020**, 13, 1-7	3.9	119
251	Numerical study of the transport of droplets or particles generated by respiratory system indoors. *Building and Environment*, **2005**, 40, 1032-1039	6.5	114

250	Effectiveness of national air pollution control policies on the air quality in metropolitan areas of China. *Journal of Environmental Sciences*, **2014**, 26, 13-22	6.4	113
249	Modeling particle deposition from fully developed turbulent flow in ventilation duct. *Atmospheric Environment*, **2006**, 40, 457-466	5.3	107
248	Air infiltration rate distributions of residences in Beijing. *Building and Environment*, **2015**, 92, 528-537	6.5	106
247	Impacts of coal burning on ambient PM_{2.5} pollution in China. *Atmospheric Chemistry and Physics*, **2017**, 17, 4477-4491	6.8	102
246	Indoor exposure to "outdoor PM10": assessing its influence on the relationship between PM10 and short-term mortality in U.S. cities. *Epidemiology*, **2012**, 23, 870-8	3.1	102
245	Emission Rates of Multiple Air Pollutants Generated from Chinese Residential Cooking. *Environmental Science & Technology*, **2018**, 52, 1081-1087	10.3	100
244	Analysis of the Dynamic Interaction Between SVOCs and Airborne Particles. *Aerosol Science and Technology*, **2013**, 47, 125-136	3.4	100
243	Assessing the influence of indoor exposure to "outdoor ozone" on the relationship between ozone and short-term mortality in U.S. communities. *Environmental Health Perspectives*, **2012**, 120, 235-40	8.4	99
242	Particle deposition in indoor environments: analysis of influencing factors. *Journal of Hazardous Materials*, **2007**, 147, 439-48	12.8	93
241	Environmental effects of the recent emission changes in China: implications for particulate matter pollution and soil acidification. *Environmental Research Letters*, **2013**, 8, 024031	6.2	92
240	Ozone and secondary organic aerosol formation potential from anthropogenic volatile organic compounds emissions in China. *Journal of Environmental Sciences*, **2017**, 53, 224-237	6.4	90
239	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	6.5	90
238	A methodology for predicting particle penetration factor through cracks of windows and doors for actual engineering application. *Building and Environment*, **2012**, 47, 339-348	6.5	90
237	Quantifying the effect of organic aerosol aging and intermediate-volatility emissions on regional-scale aerosol pollution in China. *Scientific Reports*, **2016**, 6, 28815	4.9	88
236	Modeling of ultrafine particle dispersion in indoor environments with an improved drift flux model. *Journal of Aerosol Science*, **2009**, 40, 29-43	4.3	87
235	Contributions of inter-city and regional transport to PM 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	10.2	86
234	Persistent Heavy Winter Nitrate Pollution Driven by Increased Photochemical Oxidants in Northern China. *Environmental Science & Technology*, **2020**, 54, 3881-3889	10.3	85
233	Decadal-scale trends in regional aerosol particle properties and their linkage to emission changes. *Environmental Research Letters*, **2017**, 12, 054021	6.2	82

232	Important fossil source contribution to brown carbon in Beijing during winter. *Scientific Reports*, **2017**, 7, 43182	4.9	82
231	A simplified system for indoor airflow simulation. *Building and Environment*, **2003**, 38, 543-552	6.5	76
230	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. *Science of the Total Environment*, **2017**, 580, 283-296	10.2	75
229	Occupants□interactions with windows in 8 residential apartments in Beijing and Nanjing, China. *Building Simulation*, **2016**, 9, 221-231	3.9	74
228	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	6.8	70
227	A modeling study of the nonlinear response of fine particles to air pollutant emissions in the Beijing□ianjin□ebei region. *Atmospheric Chemistry and Physics*, **2017**, 17, 12031-12050	6.8	70
226	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	5.3	68
225	Window opening behavior of occupants in residential buildings in Beijing. *Building and Environment*, **2017**, 124, 441-449	6.5	67
224	Air purifiers: A supplementary measure to remove airborne SARS-CoV-2. *Building and Environment*, **2020**, 177, 106918	6.5	65
223	Modeling particle deposition onto rough walls in ventilation duct. *Atmospheric Environment*, **2006**, 40, 6918-6927	5.3	65
222	Mitigation Potential of Mercury Emissions from Coal-Fired Power Plants in China. *Energy & Fuels*, **2012**, 26, 4635-4642	4.1	63
221	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	10.2	61
220	Contrasting effects on deep convective clouds by different types of aerosols. *Nature Communications*, **2018**, 9, 3874	17.4	61
219	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, 1105-18	4.1	60
218	Indoor SVOC pollution in China: A review. *Science Bulletin*, **2010**, 55, 1469-1478		60
217	Assessment of inter-city transport of particulate matter in the Beijing□ianjin□ebei region. *Atmospheric Chemistry and Physics*, **2018**, 18, 4843-4858	6.8	59
216	Emissions of air pollutants from Chinese cooking: A literature review. *Building Simulation*, **2018**, 11, 977-995	3.9	59
215	Measuring the Short-Term Emission Rates of Particles in the ersonal Cloud□with Different Clothes and Activity Intensities in a Sealed Chamber. *Aerosol and Air Quality Research*, **2013**, 13, 911-921	4.6	59

214	Modeled exposure assessment via inhalation and dermal pathways to airborne semivolatile organic compounds (SVOCs) in residences. *Environmental Science & Technology*, **2014**, 48, 5691-9	10.3	58
213	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	10.3	55
212	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	10.3	55
211	Transition in source contributions of PM exposure and associated premature mortality in China during 2005-2015. *Environment International*, **2019**, 132, 105111	12.9	54
210	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	9.3	53
209	Residential Coal Combustion as a Source of Levoglucosan in China. *Environmental Science & Technology*, **2018**, 52, 1665-1674	10.3	51
208	Impact of air pollution control policies on future PM concentrations and their source contributions in China. *Journal of Environmental Management*, **2018**, 227, 124-133	7.9	50
207	Assessing the Future Vehicle Fleet Electrification: The Impacts on Regional and Urban Air Quality. *Environmental Science & Technology*, **2017**, 51, 1007-1016	10.3	49
206	Winter haze over North China Plain from 2009 to 2016: Influence of emission and meteorology. *Environmental Pollution*, **2018**, 242, 1308-1318	9.3	48
205	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	5.3	48
204	Estimating mortality derived from indoor exposure to particles of outdoor origin. *PLoS ONE*, **2015**, 10, e0124238	3.7	48
203	Quantification of the enhanced effectiveness of NO_{<i>x</i>} control from simultaneous reductions of VOC and NH₃ for reducing air pollution in the Beijing□Tianjin□Hebei region, China. *Atmospheric Chemistry and Physics*, **2018**, 18, 7799-7814	6.8	48
202	Pollutant emissions from residential combustion and reduction strategies estimated via a village-based emission inventory in Beijing. *Environmental Pollution*, **2018**, 238, 230-237	9.3	45
201	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	3.9	45
200	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, 2245-54	10.3	44
199	Numerical analysis of particle deposition in ventilation duct. *Building and Environment*, **2006**, 41, 710-718	6.5	44
198	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	6.8	43
197	The influence of aerosol dynamics on indoor exposure to airborne DEHP. *Atmospheric Environment*, **2010**, 44, 1952-1959	5.3	43

196	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	4.1	42
195	Numerical Investigation of Particle Diffusion in a Clean Room. *Indoor and Built Environment*, **2005**, 14, 469-479	1.8	42
194	Ice nucleation by aerosols from anthropogenic pollution. *Nature Geoscience*, **2019**, 12, 602-607	18.3	41
193	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	5.3	41
192	Enhanced PM pollution in China due to aerosol-cloud interactions. *Scientific Reports*, **2017**, 7, 4453	4.9	41
191	Quantifying Nonlinear Multiregional Contributions to Ozone and Fine Particles Using an Updated Response Surface Modeling Technique. *Environmental Science & Technology*, **2017**, 51, 11788-11798	10.3	40
190	Modeling particle dispersion in personalized ventilated room. *Building and Environment*, **2007**, 42, 1099-1109	6.9	40
189	Numerical Study of Particle Deposition in Two Differently Ventilated Rooms. *Indoor and Built Environment*, **2004**, 13, 443-451	1.8	40
188	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	6.8	38
187	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	6.3	37
186	Development of a unit-based industrial emission inventory in the Beijing□Tianjin□Hebei region and resulting improvement in air quality modeling. *Atmospheric Chemistry and Physics*, **2019**, 19, 3447-3462	6.8	36
185	The quest for improved air quality may push China to continue its CO reduction beyond the Paris Commitment. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29535-29542	11.5	36
184	Emission characteristics of PM2.5-bound chemicals from residential Chinese cooking. *Building and Environment*, **2019**, 149, 623-629	6.5	36
183	Decomposition Analysis of the Factors that Influence Energy Related Air Pollutant Emission Changes in China Using the SDA Method. *Sustainability*, **2017**, 9, 1742	3.6	35
182	Seesaw haze pollution in North China modulated by the sub-seasonal variability of atmospheric circulation. *Atmospheric Chemistry and Physics*, **2019**, 19, 565-576	6.8	34
181	Factors That Influence Renewable Energy Technological Innovation in China: A Dynamic Panel Approach. *Sustainability*, **2018**, 10, 124	3.6	34
180	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, 278-82	9.3	34
179	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, 264-70	10.2	33

178	Comparison of the predicted concentration of outdoor originated indoor polycyclic aromatic hydrocarbons between a kinetic partition model and a linear instantaneous model for gas–particle partition. *Atmospheric Environment*, **2012**, 59, 93-101	5.3	33
177	Accessibility: A New Concept to Evaluate Ventilation Performance in a Finite Period of Time. *Indoor and Built Environment*, **2004**, 13, 287-293	1.8	33
176	Nonlinear relationships between air pollutant emissions and PM-related health impacts in the Beijing-Tianjin-Hebei region. *Science of the Total Environment*, **2019**, 661, 375-385	10.2	32
175	How Particle Resuspension from Inner Surfaces of Ventilation Ducts Affects Indoor Air Quality—A Modeling Analysis. *Aerosol Science and Technology*, **2011**, 45, 996-1009	3.4	32
174	Prediction of transient contaminant dispersion and ventilation performance using the concept of accessibility. *Energy and Buildings*, **2004**, 36, 293-299	7	32
173	Numerical study of the effects of trees on outdoor particle concentration distributions. *Building Simulation*, **2014**, 7, 417-427	3.9	30
172	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?—A Numerical Analysis. *Aerosol Science and Technology*, **2009**, 43, 990-1005	3.4	30
171	A new approach on zonal modeling of indoor environment with mechanical ventilation. *Building and Environment*, **2008**, 43, 278-286	6.5	30
170	Investigating external and internal pressures on corporate environmental behavior in papermaking enterprises of China. *Journal of Cleaner Production*, **2018**, 172, 1193-1211	10.3	29
169	Numerical analysis of outdoor thermal environment around buildings. *Building and Environment*, **2005**, 40, 853-866	6.5	29
168	Reduction in population exposure to PM and cancer risk due to PM-bound PAHs exposure in Beijing, China during the APEC meeting. *Environmental Pollution*, **2017**, 225, 338-345	9.3	28
167	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	6.4	28
166	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	6.8	28
165	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	9.3	27
164	Study on the carbon dioxide lockup phenomenon in aircraft cabin by computational fluid dynamics. *Building Simulation*, **2015**, 8, 431-441	3.9	27
163	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	3.4	27
162	Effect of particle spatial distribution on particle deposition in ventilation rooms. *Journal of Hazardous Materials*, **2009**, 170, 449-56	12.8	27
161	Is oil temperature a key factor influencing air pollutant emissions from Chinese cooking?. *Atmospheric Environment*, **2018**, 193, 190-197	5.3	27

160	Type-Dependent Responses of Ice Cloud Properties to Aerosols From Satellite Retrievals. *Geophysical Research Letters*, **2018**, 45, 3297-3306	4.9	26
159	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	6.8	26
158	An experimental study on short-time particle resuspension from inner surfaces of straight ventilation ducts. *Building and Environment*, **2012**, 53, 119-127	6.5	26
157	Different health effects of indoor- and outdoor-originated PM on cardiopulmonary function in COPD patients and healthy elderly adults. *Indoor Air*, **2019**, 29, 192-201	5.4	26
156	Impact of aerosols on ice crystal size. *Atmospheric Chemistry and Physics*, **2018**, 18, 1065-1078	6.8	25
155	Personal exposure to ambient PM, PM, O, NO and SO for different populations in 31 Chinese provinces. *Environment International*, **2020**, 144, 106018	12.9	24
154	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	3.9	23
153	Tracer element for indoor PM2.5 in China migrated from outdoor. *Atmospheric Environment*, **2018**, 176, 171-178	5.3	23
152	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	3.4	23
151	Person to person droplets transmission characteristics in unidirectional ventilated protective isolation room: The impact of initial droplet size. *Building Simulation*, **2016**, 9, 597-606	3.9	23
150	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	12.9	22
149	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	6.5	22
148	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	5.3	21
147	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	5.3	21
146	Indoor exposure levels of bacteria and fungi in residences, schools, and offices in China: A systematic review. *Indoor Air*, **2020**, 30, 1147-1165	5.4	21
145	Calculation and decomposition of China's embodied air pollutants in Sino-US trade. *Journal of Cleaner Production*, **2019**, 209, 978-994	10.3	21
144	Understanding of Aerosol–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	7.6	20
143	Health co-benefits of achieving sustainable net-zero greenhouse gas emissions in California. *Nature Sustainability*, **2020**, 3, 597-605	22.1	20

142	Developing an Empirical Equation for Modeling Particle Deposition Velocity onto Inclined Surfaces in Indoor Environments. *Aerosol Science and Technology*, **2012**, 46, 1090-1099	3.4	20
141	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	11.5	20
140	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	1.8	19
139	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	6.5	19
138	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		19
137	A Particle Resuspension Model in Ventilation Ducts. *Aerosol Science and Technology*, **2012**, 46, 222-235	3.4	19
136	Wintertime Particulate Matter Decrease Buffered by Unfavorable Chemical Processes Despite Emissions Reductions in China. *Geophysical Research Letters*, **2020**, 47, e2020GL087721	4.9	18
135	Effect of ventilation duct as a particle filter. *Building and Environment*, **2007**, 42, 2523-2529	6.5	18
134	Simulation and health risk assessment of residential particle pollution by coal combustion in China. *Building and Environment*, **2007**, 42, 614-622	6.5	18
133	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	2	18
132	Is surface water acidification a serious regional issue in China?. *Science of the Total Environment*, **2017**, 584-585, 783-790	10.2	17
131	Breathing-rate adjusted population exposure to ozone and its oxidation products in 333 cities in China. *Environment International*, **2020**, 138, 105617	12.9	17
130	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, 1290-9	12.8	17
129	Reducing human exposure to PM2.5 generated while cooking typical Chinese cuisine. *Building and Environment*, **2020**, 168, 106522	6.5	17
128	Chemical composition of outdoor and indoor PM collected during haze events: Transformations and modified source contributions resulting from outdoor-to-indoor transport. *Indoor Air*, **2018**, 28, 828-839	5.4	17
127	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	7.9	16
126	Responses of gaseous sulfuric acid and particulate sulfate to reduced SO concentration: A perspective from long-term measurements in Beijing. *Science of the Total Environment*, **2020**, 721, 137700	10.2	16
125	Performance of wearable ionization air cleaners: Ozone emission and particle removal. *Aerosol Science and Technology*, **2016**, 50, 211-221	3.4	16

124	Time-activity pattern observatory from mobile web logs. *International Journal of Embedded Systems* , **2015**, 7, 71	0.5	16
123	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	9.3	16
122	Emission rates of ultrafine and fine particles generated from human smoking of Chinese cigarettes. *Atmospheric Environment*, **2018**, 194, 7-13	5.3	16
121	Air Quality and Health Cobenefits of Different Deep Decarbonization Pathways in California. *Environmental Science & Technology*, **2019**, 53, 7163-7171	10.3	15
120	Size-dependent efficiencies of ultrafine particle removal of various filter media. *Building and Environment*, **2019**, 160, 106171	6.5	15
119	Revised air-exchange efficiency considering occupant distribution in ventilated rooms. *Journal of the Air and Waste Management Association*, **2003**, 53, 759-63	2.4	15
118	The impact of aerosol□radiation interactions on the effectiveness of emission control measures. *Environmental Research Letters*, **2019**, 14, 024002	6.2	14
117	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	6.4	14
116	LOCAL HYDRODYNAMICS IN AN EXTERNAL LOOP AIRLIFT SLURRY REACTOR WITH AND WITHOUT A RESISTANCE-REGULATING ELEMENT. *Chemical Engineering Communications*, **2004**, 191, 1024-1042	2.2	14
115	Determining ventilation strategy to defend indoor environment against contamination by integrated accessibility of contaminant source (IACS). *Building and Environment*, **2004**, 39, 1035-1042	6.5	14
114	Persistent high PM pollution driven by unfavorable meteorological conditions during the COVID-19 lockdown period in the Beijing-Tianjin-Hebei region, China. *Environmental Research*, **2021**, 198, 111186	7.9	14
113	A modified Brownian force for ultrafine particle penetration through building crack modeling. *Atmospheric Environment*, **2017**, 170, 143-148	5.3	13
112	An integrated modeling tool for simultaneous analysis of thermal performance and indoor air quality in buildings. *Building and Environment*, **2008**, 43, 287-293	6.5	13
111	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	4.4	12
110	State-space analysis of influencing factors on airborne particle concentration in aircraft cabins. *Building and Environment*, **2014**, 74, 13-21	6.5	12
109	Mathematical models for macro-scale mass transfer in airlift loop reactors. *Chemical Engineering Journal*, **2006**, 119, 19-26	14.7	12
108	Potential reductions in premature mortality attributable to PM by reducing indoor pollution: A model analysis for Beijing-Tianjin-Hebei of China. *Environmental Pollution*, **2019**, 245, 260-271	9.3	12
107	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	9.8	12

106	Emissions of Phthalates from Indoor Flat Materials in Chinese Residences. *Environmental Science & Technology*, **2018**, 52, 13166-13173	10.3	12
105	A simple method for differentiating direct and indirect exposure to exhaled contaminants in mechanically ventilated rooms. *Building Simulation*, **2018**, 11, 1039-1051	3.9	11
104	Research on Flow Resistance Characteristics with Different Window/Door Opening Angles. *HVAC and R Research*, **2010**, 16, 813-824		11
103	Modeling particle fate in ventilation systemPart I: Model development. *Building and Environment*, **2009**, 44, 605-611	6.5	11
102	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	6.5	11
101	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	3.7	11
100	Is there a timelier solution to air pollution in today's cities?. *Lancet Planetary Health, The*, **2018**, 2, e240	9.8	11
99	Modeling Study of the Air Quality Impact of Record-Breaking Southern California Wildfires in December 2017. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 6554-6570	4.4	10
98	Estimation of abatement potentials and costs of air pollution emissions in China. *Journal of Environmental Management*, **2020**, 260, 110069	7.9	10
97	Surface removal rate of ozone in residences in China. *Building and Environment*, **2018**, 142, 101-106	6.5	10
96	Mortality burdens in California due to air pollution attributable to local and nonlocal emissions. *Environment International*, **2019**, 133, 105232	12.9	10
95	A simplified method for assessing particle deposition rate in aircraft cabins. *Atmospheric Environment*, **2013**, 67, 80-84	5.3	10
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