Shuxiao Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

370 papers	18,899 citations	74 h-index	123 g-index
457 ext. papers	23,442 ext. citations	8.1 avg, IF	7.06 L-index

#	Paper	IF	Citations
370	Drivers of improved PM air quality in China from 2013 to 2017. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 24463-24469	11.5	578
369	A review of biomass burning: Emissions and impacts on air quality, health and climate in China. *Science of the Total Environment*, **2017**, 579, 1000-1034	10.2	551
368	Air quality management in China: issues, challenges, and options. *Journal of Environmental Sciences*, **2012**, 24, 2-13	6.4	377
367	Trends in anthropogenic mercury emissions in China from 1995 to 2003. *Environmental Science & Technology*, **2006**, 40, 5312-8	10.3	370
366	Primary air pollutant emissions of coal-fired power plants in China: Current status and future prediction. *Atmospheric Environment*, **2008**, 42, 8442-8452	5.3	359
365	Mercury emission and speciation of coal-fired power plants in China. *Atmospheric Chemistry and Physics*, **2010**, 10, 1183-1192	6.8	313
364	Particulate and trace gas emissions from open burning of wheat straw and corn stover in China. *Environmental Science & Technology*, **2007**, 41, 6052-8	10.3	312
363	NO_x emissions in China: historical trends and future perspectives. *Atmospheric Chemistry and Physics*, **2013**, 13, 9869-9897	6.8	292
362	Quantifying the air pollutants emission reduction during the 2008 Olympic games in Beijing. *Environmental Science & Technology*, **2010**, 44, 2490-6	10.3	287
361	Updated emission inventories for speciated atmospheric mercury from anthropogenic sources in China. *Environmental Science & Technology*, **2015**, 49, 3185-94	10.3	285
360	Evaluating the climate and air quality impacts of short-lived pollutants. *Atmospheric Chemistry and Physics*, **2015**, 15, 10529-10566	6.8	261
359	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
358	Air pollution and control action in Beijing. *Journal of Cleaner Production*, **2016**, 112, 1519-1527	10.3	236
357	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
356	Emission trends and mitigation options for air pollutants in East Asia. *Atmospheric Chemistry and Physics*, **2014**, 14, 6571-6603	6.8	218
355	Status and characteristics of ambient PM2.5 pollution in global megacities. *Environment International*, **2016**, 89-90, 212-21	12.9	215
354	Emission and speciation of non-methane volatile organic compounds from anthropogenic sources in China. *Atmospheric Environment*, **2008**, 42, 4976-4988	5.3	198

353	Particulate matter pollution over China and the effects of control policies. *Science of the Total Environment*, **2017**, 584-585, 426-447	10.2	193
352	The variation of chemical characteristics of PM2.5 and PM10 and formation causes during two haze pollution events in urban Beijing, China. *Atmospheric Environment*, **2015**, 107, 1-8	5.3	191
351	Impact assessment of ammonia emissions on inorganic aerosols in East China using response surface modeling technique. *Environmental Science & Technology*, **2011**, 45, 9293-300	10.3	184
350	Establishment of a database of emission factors for atmospheric pollutants from Chinese coal-fired power plants. *Atmospheric Environment*, **2010**, 44, 1515-1523	5.3	175
349	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
348	Temporal Trend and Spatial Distribution of Speciated Atmospheric Mercury Emissions in China During 1978-2014. *Environmental Science & Technology*, **2016**, 50, 13428-13435	10.3	173
347	Impact of national NOx and SO2 control policies on particulate matter pollution in China. *Atmospheric Environment*, **2013**, 77, 453-463	5.3	173
346	The impact of transportation control measures on emission reductions during the 2008 Olympic Games in Beijing, China. *Atmospheric Environment*, **2010**, 44, 285-293	5.3	173
345	Ammonia emission control in China would mitigate haze pollution and nitrogen deposition, but worsen acid rain. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7760-7765	11.5	172
344	Impact of biomass burning on haze pollution in the Yangtze River delta, China: a case study in summer 2011. *Atmospheric Chemistry and Physics*, **2014**, 14, 4573-4585	6.8	169
343	Projections of SO2, NOx and carbonaceous aerosols emissions in Asia. *Tellus, Series B: Chemical and Physical Meteorology*, **2009**, 61, 602-617	3.3	168
342	Characteristics and health impacts of particulate matter pollution in China (2001–2011). *Atmospheric Environment*, **2013**, 65, 186-194	5.3	167
341	Carbonaceous aerosol emissions from household biofuel combustion in China. *Environmental Science & Technology*, **2009**, 43, 6076-81	10.3	166
340	Particle size distribution and polycyclic aromatic hydrocarbons emissions from agricultural crop residue burning. *Environmental Science & Technology*, **2011**, 45, 5477-82	10.3	160
339	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. *Environment International*, **2019**, 126, 747-761	12.9	149
338	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
337	Fine-particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models. *Atmospheric Chemistry and Physics*, **2018**, 18, 7423-7438	6.8	146
336	Sulfur-modified rice husk biochar: A green method for the remediation of mercury contaminated soil. *Science of the Total Environment*, **2018**, 621, 819-826	10.2	145

335	Long-term trend of haze pollution and impact of particulate matter in the Yangtze River Delta, China. *Environmental Pollution*, **2013**, 182, 101-10	9.3	145
334	Nonlinear response of ozone to precursor emission changes in China: a modeling study using response surface methodology. *Atmospheric Chemistry and Physics*, **2011**, 11, 5027-5044	6.8	140
333	Air pollution and lung cancer risks in China--a meta-analysis. *Science of the Total Environment*, **2006**, 366, 500-13	10.2	136
332	A novel TiO/biochar composite catalysts for photocatalytic degradation of methyl orange. *Chemosphere*, **2019**, 222, 391-398	8.4	134
331	Characteristics and source apportionment of PM2.5 during a fall heavy haze episode in the Yangtze River Delta of China. *Atmospheric Environment*, **2015**, 123, 380-391	5.3	118
330	Review of receptor-based source apportionment research of fine particulate matter and its challenges in China. *Science of the Total Environment*, **2017**, 586, 917-929	10.2	117
329	Premature Mortality Attributable to Particulate Matter in China: Source Contributions and Responses to Reductions. *Environmental Science & Technology*, **2017**, 51, 9950-9959	10.3	116
328	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
327	Influence of mercury and chlorine content of coal on mercury emissions from coal-fired power plants in China. *Environmental Science & Technology*, **2012**, 46, 6385-92	10.3	112
326	Estimated Contributions of Emissions Controls, Meteorological Factors, Population Growth, and Changes in Baseline Mortality to Reductions in Ambient [Formula: see text] and [Formula: see text]-Related Mortality in China, 2013-2017. *Environmental Health Perspectives*, **2019**, 127, 67009	8.4	111
325	Verification of anthropogenic emissions of China by satellite and ground observations. *Atmospheric Environment*, **2011**, 45, 6347-6358	5.3	104
324	Impacts of coal burning on ambient PM_{2.5} pollution in China. *Atmospheric Chemistry and Physics*, **2017**, 17, 4477-4491	6.8	102
323	A Highly Resolved Mercury Emission Inventory of Chinese Coal-Fired Power Plants. *Environmental Science & Technology*, **2018**, 52, 2400-2408	10.3	100
322	Impacts of household coal and biomass combustion on indoor and ambient air quality in China: Current status and implication. *Science of the Total Environment*, **2017**, 576, 347-361	10.2	100
321	Increasing Ammonia Concentrations Reduce the Effectiveness of Particle Pollution Control Achieved via SO2 and NOX Emissions Reduction in East China. *Environmental Science and Technology Letters*, **2017**, 4, 221-227	11	99
320	Mercury Flows in China and Global Drivers. *Environmental Science & Technology*, **2017**, 51, 222-231	10.3	99
319	Nitrate dominates the chemical composition of PM during haze event in Beijing, China. *Science of the Total Environment*, **2019**, 689, 1293-1303	10.2	98
318	Chemical and size characterization of particles emitted from the burning of coal and wood in rural households in Guizhou, China. *Atmospheric Environment*, **2012**, 51, 94-99	5.3	93

317	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
316	Characteristics of gaseous pollutants from biofuel-stoves in rural China. *Atmospheric Environment*, **2009**, 43, 4148-4154	5.3	92
315	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
314	A review of atmospheric mercury emissions, pollution and control in China. *Frontiers of Environmental Science and Engineering*, **2014**, 8, 631-649	5.8	90
313	Source apportionment of fine particulate matter during autumn haze episodes in Shanghai, China. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 1903-1914	4.4	90
312	Assessing the impact of clean air action on air quality trends in Beijing using a machine learning technique. *Atmospheric Chemistry and Physics*, **2019**, 19, 11303-11314	6.8	89
311	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
310	Emission Characteristics of Particulate Matter from Rural Household Biofuel Combustion in China. *Energy & Fuels*, **2007**, 21, 845-851	4.1	88
309	Modeling biogenic and anthropogenic secondary organic aerosol in China. *Atmospheric Chemistry and Physics*, **2017**, 17, 77-92	6.8	87
308	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
307	Source influence on emission pathways and ambient PM pollution over India (2015-2050). *Atmospheric Chemistry and Physics*, **2018**, 18, 8017-8039	6.8	86
306	Persistent Heavy Winter Nitrate Pollution Driven by Increased Photochemical Oxidants in Northern China. *Environmental Science & Technology*, **2020**, 54, 3881-3889	10.3	85
305	Mercury transformation and speciation in flue gases from anthropogenic emission sources: a critical review. *Atmospheric Chemistry and Physics*, **2016**, 16, 2417-2433	6.8	84
304	Important fossil source contribution to brown carbon in Beijing during winter. *Scientific Reports*, **2017**, 7, 43182	4.9	82
303	Lead Isotopic Compositions of Selected Coals, Pb/Zn Ores and Fuels in China and the Application for Source Tracing. *Environmental Science & Technology*, **2017**, 51, 13502-13508	10.3	82
302	Progress of Air Pollution Control in China and Its Challenges and Opportunities in the Ecological Civilization Era. *Engineering*, **2020**, 6, 1423-1431	9.7	82
301	Projections of air pollutant emissions and its impacts on regional air quality in China in 2020. *Atmospheric Chemistry and Physics*, **2011**, 11, 3119-3136	6.8	81
300	Urban and rural exposure to indoor air pollution from domestic biomass and coal burning across China. *Science of the Total Environment*, **2007**, 377, 12-26	10.2	81

299	Emission characterization, environmental impact, and control measure of PM2.5 emitted from agricultural crop residue burning in China. *Journal of Cleaner Production*, **2017**, 149, 629-635	10.3	77
298	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
297	Rapid SO₂ emission reductions significantly increase tropospheric ammonia concentrations over the North China Plain. *Atmospheric Chemistry and Physics*, **2018**, 18, 17933-17943	6.8	74
296	Update of mercury emissions from China's primary zinc, lead and copper smelters, 2000–2010. *Atmospheric Chemistry and Physics*, **2012**, 12, 11153-11163	6.8	73
295	Air quality and health benefits from fleet electrification in China. *Nature Sustainability*, **2019**, 2, 962-971	22.1	73
294	Modeling study on the air quality impacts from emission reductions and atypical meteorological conditions during the 2008 Beijing Olympics. *Atmospheric Environment*, **2011**, 45, 1786-1798	5.3	71
293	Deriving High-Resolution Emission Inventory of Open Biomass Burning in China based on Satellite Observations. *Environmental Science & Technology*, **2016**, 50, 11779-11786	10.3	71
292	Semi-coke briquettes: towards reducing emissions of primary PM2.5, particulate carbon, and carbon monoxide from household coal combustion in China. *Scientific Reports*, **2016**, 6, 19306	4.9	70
291	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
290	A modeling study of the nonlinear response of fine particles to air pollutant emissions in the Beijing–Tianjin–Hebei region. *Atmospheric Chemistry and Physics*, **2017**, 17, 12031-12050	6.8	70
289	Uncertainties in estimating mercury emissions from coal-fired power plants in China. *Atmospheric Chemistry and Physics*, **2010**, 10, 2937-2946	6.8	70
288	Gaseous Ammonia Emissions from Coal and Biomass Combustion in Household Stoves with Different Combustion Efficiencies. *Environmental Science and Technology Letters*, **2016**, 3, 98-103	11	69
287	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
286	Impacts of aerosol direct effects on tropospheric ozone through changes in atmospheric dynamics and photolysis rates. *Atmospheric Chemistry and Physics*, **2017**, 17, 9869-9883	6.8	68
285	Source-specific speciation profiles of PM for heavy metals and their anthropogenic emissions in China. *Environmental Pollution*, **2018**, 239, 544-553	9.3	67
284	Source apportionment of atmospheric mercury pollution in China using the GEOS-Chem model. *Environmental Pollution*, **2014**, 190, 166-75	9.3	67
283	Particulate Matter Distributions in China during a Winter Period with Frequent Pollution Episodes (January 2013). *Aerosol and Air Quality Research*, **2015**, 15, 494-503	4.6	67
282	Historical Trends in PM2.5-Related Premature Mortality during 1990-2010 across the Northern Hemisphere. *Environmental Health Perspectives*, **2017**, 125, 400-408	8.4	65

281	Urban cross-sector actions for carbon mitigation with local health co-benefits in China. *Nature Climate Change*, **2017**, 7, 736-742	21.4	65
280	Internal migration and urbanization in China: impacts on population exposure to household air pollution (2000-2010). *Science of the Total Environment*, **2014**, 481, 186-95	10.2	65
279	Projection of anthropogenic volatile organic compounds (VOCs) emissions in China for the period 2010–2020. *Atmospheric Environment*, **2011**, 45, 6863-6871	5.3	64
278	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. *Atmospheric Chemistry and Physics*, **2019**, 19, 1357-1371	6.8	63
277	Mitigation Potential of Mercury Emissions from Coal-Fired Power Plants in China. *Energy & Fuels*, **2012**, 26, 4635-4642	4.1	63
276	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
275	Mercury sorption study of halides modified bio-chars derived from cotton straw. *Chemical Engineering Journal*, **2016**, 302, 305-313	14.7	60
274	Atmospheric mercury concentration and chemical speciation at a rural site in Beijing, China: implications of mercury emission sources. *Atmospheric Chemistry and Physics*, **2013**, 13, 10505-10516	6.8	60
273	Effect of selective catalytic reduction (SCR) on fine particle emission from two coal-fired power plants in China. *Atmospheric Environment*, **2015**, 120, 227-233	5.3	59
272	Assessment of inter-city transport of particulate matter in the Beijing–Tianjin–Hebei region. *Atmospheric Chemistry and Physics*, **2018**, 18, 4843-4858	6.8	59
271	Characteristics of NOx emission from Chinese coal-fired power plants equipped with new technologies. *Atmospheric Environment*, **2016**, 131, 164-170	5.3	59
270	Synthesis of calcium materials in biochar matrix as a highly stable catalyst for biodiesel production. *Renewable Energy*, **2019**, 130, 41-49	8.1	59
269	A modeling study of coarse particulate matter pollution in Beijing: regional source contributions and control implications for the 2008 Summer Olympics. *Journal of the Air and Waste Management Association*, **2008**, 58, 1057-69	2.4	58
268	Linking science and policy to support the implementation of the Minamata Convention on Mercury. *Ambio*, **2018**, 47, 198-215	6.5	56
267	Mechanisms and roles of fly ash compositions on the adsorption and oxidation of mercury in flue gas from coal combustion. *Fuel*, **2016**, 163, 232-239	7.1	55
266	Mass-dependent and mass-independent fractionation of mercury isotopes in precipitation from Guiyang, SW China. *Comptes Rendus - Geoscience*, **2015**, 347, 358-367	1.4	55
265	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
264	Transition in source contributions of PM exposure and associated premature mortality in China during 2005-2015. *Environment International*, **2019**, 132, 105111	12.9	54

263	Wet deposition of mercury at Lhasa, the capital city of Tibet. *Science of the Total Environment*, **2013**, 447, 123-32	10.2	54
262	The influence of flue gas components and activated carbon injection on mercury capture of municipal solid waste incineration in China. *Chemical Engineering Journal*, **2017**, 326, 561-569	14.7	53
261	Anthropogenic Emissions of Hydrogen Chloride and Fine Particulate Chloride in China. *Environmental Science & Technology*, **2018**, 52, 1644-1654	10.3	51
260	Intake fraction of PM2.5 and NOX from vehicle emissions in Beijing based on personal exposure data. *Atmospheric Environment*, **2012**, 57, 233-243	5.3	51
259	Estimating NH₃ emissions from agricultural fertilizer application in China using the bi-directional CMAQ model coupled to an agro-ecosystem model. *Atmospheric Chemistry and Physics*, **2015**, 15, 6637-6649	6.8	51
258	Residential Coal Combustion as a Source of Levoglucosan in China. *Environmental Science & Technology*, **2018**, 52, 1665-1674	10.3	51
257	The influence of spatiality on shipping emissions, air quality and potential human exposure in the Yangtze River Delta/Shanghai, China. *Atmospheric Chemistry and Physics*, **2019**, 19, 6167-6183	6.8	50
256	Measure-Specific Effectiveness of Air Pollution Control on China's Atmospheric Mercury Concentration and Deposition during 2013-2017. *Environmental Science & Technology*, **2019**, 53, 8938-8946	10.3	50
255	Material Flow for the Intentional Use of Mercury in China. *Environmental Science & Technology*, **2016**, 50, 2337-44	10.3	50
254	Modeling analysis of secondary inorganic aerosols over China: pollution characteristics, and meteorological and dust impacts. *Scientific Reports*, **2016**, 6, 35992	4.9	50
253	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
252	Assessing the Future Vehicle Fleet Electrification: The Impacts on Regional and Urban Air Quality. *Environmental Science & Technology*, **2017**, 51, 1007-1016	10.3	49
251	Mitigation Options of Atmospheric Hg Emissions in China. *Environmental Science & Technology*, **2018**, 52, 12368-12375	10.3	49
250	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
249	Mechanism identification of temperature influence on mercury adsorption capacity of different halides modified bio-chars. *Chemical Engineering Journal*, **2017**, 315, 251-261	14.7	47
248	Speciation of mercury in FGD gypsum and mercury emission during the wallboard production in China. *Fuel*, **2013**, 111, 621-627	7.1	46
247	Were mercury emission factors for Chinese non-ferrous metal smelters overestimated? Evidence from onsite measurements in six smelters. *Environmental Pollution*, **2012**, 171, 109-17	9.3	46
246	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

245	Role of inherent active constituents on mercury adsorption capacity of chars from four solid wastes. *Chemical Engineering Journal*, **2017**, 307, 544-552	14.7	44
244	New insight into atmospheric mercury emissions from zinc smelters using mass flow analysis. *Environmental Science & Technology*, **2015**, 49, 3532-9	10.3	44
243	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
242	A novel peat biochar supported catalyst for the transesterification reaction. *Energy Conversion and Management*, **2017**, 139, 89-96	10.6	43
241	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
240	Characterization of non-methane hydrocarbons emitted from open burning of wheat straw and corn stover in China. *Environmental Research Letters*, **2009**, 4, 044015	6.2	43
239	Regional transport in Beijing-Tianjin-Hebei region and its changes during 2014-2017: The impacts of meteorology and emission reduction. *Science of the Total Environment*, **2020**, 737, 139792	10.2	42
238	Air pollutants in rural homes in Guizhou, China Concentrations, speciation, and size distribution. *Atmospheric Environment*, **2010**, 44, 4575-4581	5.3	42
237	Emission-Limit-Oriented Strategy To Control Atmospheric Mercury Emissions in Coal-Fired Power Plants toward the Implementation of the Minamata Convention. *Environmental Science & Technology*, **2018**, 52, 11087-11093	10.3	42
236	Enhanced PM pollution in China due to aerosol-cloud interactions. *Scientific Reports*, **2017**, 7, 4453	4.9	41
235	Assessment of population exposure to particulate matter pollution in Chongqing, China. *Environmental Pollution*, **2008**, 153, 247-56	9.3	41
234	Spatial and temporal variation of haze in China from 1961 to 2012. *Journal of Environmental Sciences*, **2016**, 46, 134-46	6.4	40
233	Population-weighted exposure to PM pollution in China: An integrated approach. *Environment International*, **2018**, 120, 111-120	12.9	40
232	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
231	Trends of chemical speciation profiles of anthropogenic volatile organic compounds emissions in China, 2005 2020. *Frontiers of Environmental Science and Engineering*, **2014**, 8, 27-41	5.8	40
230	Estimating mercury emissions from a zinc smelter in relation to China's mercury control policies. *Environmental Pollution*, **2010**, 158, 3347-53	9.3	40
229	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
228	Investigating the impact of regional transport on PM_{2.5} formation using vertical observation during APEC 2014 Summit in Beijing. *Atmospheric Chemistry and Physics*, **2016**, 16, 15451-15460	6.8	37

227	Mercury mass flow in iron and steel production process and its implications for mercury emission control. *Journal of Environmental Sciences*, **2016**, 43, 293-301	6.4	37
226	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
225	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
224	Gasification of coal and biomass as a net carbon-negative power source for environment-friendly electricity generation in China. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8206-8213	11.5	36
223	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
222	Meeting Minamata: Cost-effective compliance options for atmospheric mercury control in Chinese coal-fired power plants. *Energy Policy*, **2016**, 88, 485-494	7.2	36
221	Flow Analysis of the Mercury Associated with Nonferrous Ore Concentrates: Implications on Mercury Emissions and Recovery in China. *Environmental Science & Technology*, **2016**, 50, 1796-803	10.3	36
220	Ultrafine particle concentrations and exposures in four high-rise Beijing apartments. *Atmospheric Environment*, **2011**, 45, 7574-7582	5.3	36
219	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015–2018/2019. *Environmental Science and Technology Letters*, **2019**, 6, 752-760	11	35
218	Mercury enrichment and its effects on atmospheric emissions in cement plants of China. *Atmospheric Environment*, **2014**, 92, 421-428	5.3	35
217	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
216	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
215	High efficiency of livestock ammonia emission controls in alleviating particulate nitrate during a severe winter haze episode in northern China. *Atmospheric Chemistry and Physics*, **2019**, 19, 5605-5613	6.8	34
214	Quantifying the emission changes and associated air quality impacts during the COVID-19 pandemic on the North China Plain: a response modeling study. *Atmospheric Chemistry and Physics*, **2020**, 20, 14347-14359	6.8	34
213	Evaluation of health benefit using BenMAP-CE with an integrated scheme of model and monitor data during Guangzhou Asian Games. *Journal of Environmental Sciences*, **2016**, 42, 9-18	6.4	34
212	Effects of air pollution control measures on air quality improvement in Guangzhou, China. *Journal of Environmental Management*, **2019**, 244, 127-137	7.9	33
211	Environmental Justice Aspects of Exposure to PM2.5 Emissions from Electric Vehicle Use in China. *Environmental Science & Technology*, **2015**, 49, 13912-20	10.3	33
210	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

209	Variation of Urban Atmospheric Ammonia Pollution and its Relation with PM2.5 Chemical Property in Winter of Beijing, China. *Aerosol and Air Quality Research*, **2016**, 16, 1390-1402	4.6	32
208	Gas-to-particle conversion of atmospheric ammonia and sampling artifacts of ammonium in spring of Beijing. *Science China Earth Sciences*, **2015**, 58, 345-355	4.6	31
207	Transesterification of vegetable oil on low cost and efficient meat and bone meal biochar catalysts. *Energy Conversion and Management*, **2017**, 150, 214-221	10.6	30
206	Intake fractions of industrial air pollutants in China: estimation and application. *Science of the Total Environment*, **2006**, 354, 127-41	10.2	30
205	Recent decrease trend of atmospheric mercury concentrations in East China: the influence of anthropogenic emissions. *Atmospheric Chemistry and Physics*, **2018**, 18, 8279-8291	6.8	30
204	Characteristics of mercury cycling in the cement production process. *Journal of Hazardous Materials* , **2016**, 302, 27-35	12.8	29
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