Shuxiao Wang

List of Publications by Citations

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
203	Impacts of emissions and meteorological changes on China□ ozone pollution in the warm seasons of 2013 and 2017. *Frontiers of Environmental Science and Engineering*, **2019**, 13, 1	5.8	29
202	A synthesis of research needs for improving the understanding of atmospheric mercury cycling. *Atmospheric Chemistry and Physics*, **2017**, 17, 9133-9144	6.8	29
201	Local and Regional Contributions to Fine Particle Pollution in Winter of the Yangtze River Delta, China. *Aerosol and Air Quality Research*, **2016**, 16, 1067-1080	4.6	29
200	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
199	Exploration of reaction mechanism between acid gases and elemental mercury on the CeO2□WO3/TiO2 catalyst via in situ DRIFTS. *Fuel*, **2019**, 239, 162-172	7.1	28
198	Comparison of water-soluble inorganic ions and trace metals in PM2.5 between online and offline measurements in Beijing during winter. *Atmospheric Pollution Research*, **2019**, 10, 1755-1765	4.5	27
197	Health benefit assessment of PM reduction in Pearl River Delta region of China using a model-monitor data fusion approach. *Journal of Environmental Management*, **2019**, 233, 489-498	7.9	27
196	Source apportionment of Pb-containing particles in Beijing during January 2013. *Environmental Pollution*, **2017**, 226, 30-40	9.3	26
195	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
194	Synergistic mercury removal by conventional pollutant control strategies for coal-fired power plants in China. *Journal of the Air and Waste Management Association*, **2010**, 60, 722-30	2.4	26
193	Designation of acid rain and SO2 control zones and control policies in China. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2000**, 35, 1901-1914	2.3	26
192	Design and demonstration of a next-generation air quality attainment assessment system for PM2.5 and O3. *Journal of Environmental Sciences*, **2015**, 29, 178-88	6.4	25

191	Impact of ultra-low emission technology retrofit on the mercury emissions and cross-media transfer in coal-fired power plants. *Journal of Hazardous Materials*, **2020**, 396, 122729	12.8	25
190	Deep Learning for Prediction of the Air Quality Response to Emission Changes. *Environmental Science & Technology*, **2020**, 54, 8589-8600	10.3	25
189	Contribution of Particulate Nitrate Photolysis to Heterogeneous Sulfate Formation for Winter Haze in China. *Environmental Science and Technology Letters*, **2020**, 7, 632-638	11	25
188	Introduction: Air Pollution in China. *China Quarterly*, **2018**, 234, 279-298	1	25
187	Mercury concentrations in forest soils and stream waters in northeast and south China. *Science of the Total Environment*, **2014**, 496, 714-720	10.2	25
186	Updated atmospheric speciated mercury emissions from iron and steel production in China during 20002015. *Atmospheric Chemistry and Physics*, **2017**, 17, 10423-10433	6.8	25
185	Primary Suppliers Driving Atmospheric Mercury Emissions through Global Supply Chains. *One Earth*, **2019**, 1, 254-266	8.1	25
184	Economic analysis of atmospheric mercury emission control for coal-fired power plants in China. *Journal of Environmental Sciences*, **2015**, 33, 125-34	6.4	24
183	Air quality and health co-benefits of China's national emission trading system. *Applied Energy*, **2020**, 261, 114226	10.7	24
182	Comparison and overview of PM_{2.5} source apportionment methods. *Chinese Science Bulletin*, **2015**, 60, 109-121	2.9	24
181	Significant reduction in air pollutant emissions from household cooking stoves by replacing raw solid fuels with their carbonized products. *Science of the Total Environment*, **2019**, 650, 653-660	10.2	24
180	Air Pollutants are associated with Dry Eye Disease in Urban Ophthalmic Outpatients: a Prevalence Study in China. *Journal of Translational Medicine*, **2019**, 17, 46	8.5	23
179	Cost estimate of multi-pollutant abatement from the power sector in the Yangtze River Delta region of China. *Energy Policy*, **2014**, 69, 478-488	7.2	23
178	A Holistic Perspective Is Needed To Ensure Success of Minamata Convention on Mercury. *Environmental Science & Technology*, **2017**, 51, 1070-1071	10.3	22
177	Characteristics and sources of aerosol pollution at a polluted rural site southwest in Beijing, China. *Science of the Total Environment*, **2018**, 626, 519-527	10.2	22
176	Unexpected Benefits of Reducing Aerosol Cooling Effects. *Environmental Science & Technology* , **2016**, 50, 7527-34	10.3	22
175	Indoor PM and CO concentrations in rural Guizhou, China. *Energy for Sustainable Development*, **2014** , 21, 51-59	5.4	22
174	Promoting SO Resistance of a CeO(5)-WO(9)/TiO Catalyst for Hg Oxidation via Adjusting the Basicity and Acidity Sites Using a CuO Doping Method. *Environmental Science & Technology*, **2020**, 54, 1889-1897	10.3	22

173	The Hidden Hazard of Household Air Pollution in Rural China. *Environmental Science and Policy*, **2019**, 93, 27-33	6.2	22
172	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
171	Gaseous elemental mercury (GEM) fluxes over canopy of two typical subtropical forests in south China. *Atmospheric Chemistry and Physics*, **2018**, 18, 495-509	6.8	21
170	Mercury flows in large-scale gold production and implications for Hg pollution control. *Journal of Environmental Sciences*, **2018**, 68, 91-99	6.4	21
169	Estimation of aerosol mass scattering efficiencies under high mass loading: case study for the megacity of Shanghai, China. *Environmental Science & Technology*, **2015**, 49, 831-8	10.3	21
168	Spatial distribution and accumulation of Hg in soil surrounding a Zn/Pb smelter. *Science of the Total Environment*, **2014**, 496, 668-677	10.2	21
167	Plotting of Acid Rain and Sulfur Dioxide Pollution Control Zones and Integrated Control Planning in China. *Water, Air, and Soil Pollution*, **2001**, 130, 259-264	2.6	21
166	Development and application of observable response indicators for design of an effective ozone and fine particle pollution control strategy in China. *Atmospheric Chemistry and Physics*, **2019**, 19, 13627-13646	6.8	21
165	Calculation and decomposition of China's embodied air pollutants in Sino-US trade. *Journal of Cleaner Production*, **2019**, 209, 978-994	10.3	21
164	Modeling the impact of heterogeneous reactions of chlorine on summertime nitrate formation in Beijing, China. *Atmospheric Chemistry and Physics*, **2019**, 19, 6737-6747	6.8	20
163	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
162	The collective contribution of Chinese cities to territorial and electricity-related CO2 emissions. *Journal of Cleaner Production*, **2018**, 189, 910-921	10.3	19
161	Assessment of Regional Mercury Deposition and Emission Outflow in Mainland China. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 9868-9890	4.4	19
160	Response surface modeling-based source contribution analysis and VOC emission control policy assessment in a typical ozone-polluted urban Shunde, China. *Journal of Environmental Sciences*, **2017**, 51, 294-304	6.4	19
159	Measurements of mercury speciation and fine particle size distribution on combustion of China coal seams. *Fuel*, **2013**, 104, 732-738	7.1	19
158	Impacts of COVID-19 response actions on air quality in China. *Environmental Research Communications*, **2020**, 2, 075003	3.1	19
157	Projection of ship emissions and their impact on air quality in 2030 in Yangtze River delta, China. *Environmental Pollution*, **2020**, 263, 114643	9.3	18
156	Wintertime Particulate Matter Decrease Buffered by Unfavorable Chemical Processes Despite Emissions Reductions in China. *Geophysical Research Letters*, **2020**, 47, e2020GL087721	4.9	18

155	Foliage/atmosphere exchange of mercury in a subtropical coniferous forest in south China. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 2006-2016	3.7	18
154	Time-Resolved Intermediate-Volatility and Semivolatile Organic Compound Emissions from Household Coal Combustion in Northern China. *Environmental Science & Technology*, **2019**, 53, 9269-9278	10.3	18
153	Is surface water acidification a serious regional issue in China?. *Science of the Total Environment*, **2017**, 584-585, 783-790	10.2	17
152	Upgrading to cleaner household stoves and reducing chronic obstructive pulmonary disease among women in rural China A cost-benefit analysis. *Energy for Sustainable Development*, **2013**, 17, 489-496	5.4	17
151	Emission trends and mitigation options for air pollutants in East Asia		17
150	Revealing the impacts of transboundary pollution on PM-related deaths in China. *Environment International*, **2020**, 134, 105323	12.9	17
149	Sources of gaseous NH in urban Beijing from parallel sampling of NH and NH, their nitrogen isotope measurement and modeling. *Science of the Total Environment*, **2020**, 747, 141361	10.2	17
148	Impacts of improved modeling resolution on the simulation of meteorology, air quality, and human exposure to PM2.5, O3 in Beijing, China. *Journal of Cleaner Production*, **2020**, 243, 118574	10.3	17
147	First High-Resolution Emission Inventory of Levoglucosan for Biomass Burning and Non-Biomass Burning Sources in China. *Environmental Science & Technology*, **2021**, 55, 1497-1507	10.3	17
146	Least-cost control strategy optimization for air quality attainment of Beijing-Tianjin-Hebei region in China. *Journal of Environmental Management*, **2019**, 245, 95-104	7.9	16
145	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
144	Significant impact of heterogeneous reactions of reactive chlorine species on summertime atmospheric ozone and free-radical formation in north China. *Science of the Total Environment*, **2019**, 693, 133580	10.2	16
143	Indoor Emissions of Carbonaceous Aerosol and Other Air Pollutants from Household Fuel Burning in Southwest China. *Aerosol and Air Quality Research*, **2014**, 14, 1779-1788	4.6	16
142	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
141	Sulfur trioxide emissions from coal-fired power plants in China and implications on future control. *Fuel*, **2020**, 261, 116438	7.1	16
140	Understanding PM2.5 sources in China: challenges and perspectives. *National Science Review*, **2017**, 4, 801-803	10.8	15
139	Design and operational considerations for selective catalytic reduction technologies at coal-fired boilers. *Frontiers in Energy*, **2012**, 6, 98-105	2.6	15
138	Reactivity and deactivation mechanisms of toluene reforming over waste peat char-supported Fe/Ni/Ca catalyst. *Fuel*, **2020**, 271, 117517	7.1	15

137	Importance of Wintertime Anthropogenic Glyoxal and Methylglyoxal Emissions in Beijing and Implications for Secondary Organic Aerosol Formation in Megacities. *Environmental Science & Technology*, **2020**, 54, 11809-11817	10.3	15
136	Mercury emissions from coal combustion in China **2009**, 51-65		15
135	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
134	Considerations for decision-making on distributed power generation in rural areas. *Energy Policy*, **2013**, 63, 708-715	7.2	14
133	Health benefits of on-road transportation pollution control programs in China. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25370-25377	11.5	13
132	Large-scale optimization of multi-pollutant control strategies in the Pearl River Delta region of China using a genetic algorithm in machine learning. *Science of the Total Environment*, **2020**, 722, 137701	10.2	12
131	Insights on Chemistry of Mercury Species in Clouds over Northern China: Complexation and Adsorption. *Environmental Science & Technology*, **2018**, 52, 5125-5134	10.3	12
130	Improving Flue Gas Mercury Removal in Waste Incinerators by Optimization of Carbon Injection Rate. *Environmental Science & Technology*, **2018**, 52, 1940-1945	10.3	12
129	Behavior of Sulfur Oxides in Nonferrous Metal Smelters and Implications on Future Control and Emission Estimation. *Environmental Science & Technology*, **2019**, 53, 8796-8804	10.3	12
128	Design of a compact dilution sampler for stationary combustion sources. *Journal of the Air and Waste Management Association*, **2011**, 61, 1124-30	2.4	12
127	A WRF-Chem model-based future vehicle emission control policy simulation and assessment for the Beijing-Tianjin-Hebei region, China. *Journal of Environmental Management*, **2020**, 253, 109751	7.9	12
126	Study of Secondary Organic Aerosol Formation from Chlorine Radical-Initiated Oxidation of Volatile Organic Compounds in a Polluted Atmosphere Using a 3D Chemical Transport Model. *Environmental Science & Technology*, **2020**, 54, 13409-13418	10.3	12
125	Impact of emission reductions and meteorology changes on atmospheric mercury concentrations during the COVID-19 lockdown. *Science of the Total Environment*, **2021**, 750, 142323	10.2	12
124	Distribution and emissions of trace elements in coal-fired power plants after ultra-low emission retrofitting. *Science of the Total Environment*, **2021**, 754, 142285	10.2	12
123	Effect of current emission abatement strategies on air quality improvement in China: A case study of Baotou, a typical industrial city in Inner Mongolia. *Journal of Environmental Sciences*, **2017**, 57, 383-390	6.4	11
122	Pyrolysis char derived from waste peat for catalytic reforming of tar model compound. *Applied Energy*, **2020**, 263, 114565	10.7	11
121	Sources of black carbon in the atmosphere and in snow in the Arctic. *Science of the Total Environment*, **2019**, 691, 442-454	10.2	11
120	Modeling the heterogeneous oxidation of elemental mercury by chlorine in flue gas. *Fuel*, **2020**, 262, 116506	7.1	11

119	Development of an integrated policy making tool for assessing air quality and human health benefits of air pollution control. *Frontiers of Environmental Science and Engineering*, **2015**, 9, 1056-1065	5.8	10
118	Development and case study of a science-based software platform to support policy making on air quality. *Journal of Environmental Sciences*, **2015**, 27, 97-107	6.4	10
117	Estimation of abatement potentials and costs of air pollution emissions in China. *Journal of Environmental Management*, **2020**, 260, 110069	7.9	10
116	A land use regression model of nitrogen dioxide and fine particulate matter in a complex urban core in Lanzhou, China. *Environmental Research*, **2019**, 177, 108597	7.9	10
115	Microenvironmental time-activity patterns in Chongqing, China. *Frontiers of Environmental Science and Engineering in China*, **2009**, 3, 200-209		10
114	Designation of Sulfur Dioxide and Acid Rain Pollution Control Zones and Its Impacts on Energy Industry in China.. *Journal of Chemical Engineering of Japan*, **2001**, 34, 1108-1113	0.8	10
113	Global health effects of future atmospheric mercury emissions. *Nature Communications*, **2021**, 12, 3035	17.4	10
112	Analysis of volatile organic compounds using cryogen-free thermal modulation based comprehensive two-dimensional gas chromatography coupled with quadrupole mass spectrometry. *Journal of Chromatography A*, **2019**, 1587, 227-238	4.5	10
111	Measurement of size-fractionated particulate-bound mercury in Beijing and implications on sources and dry deposition of mercury. *Science of the Total Environment*, **2019**, 675, 176-183	10.2	9
110	Real-time source contribution analysis of ambient ozone using an enhanced meta-modeling approach over the Pearl River Delta Region of China. *Journal of Environmental Management*, **2020**, 268, 110650	7.9	9
109	Subtropical Forests Act as Mercury Sinks but as Net Sources of Gaseous Elemental Mercury in South China. *Environmental Science & Technology*, **2020**, 54, 2772-2779	10.3	9
108	Benefit of China's reduction in nitrogen oxides emission to natural ecosystems in East Asia with respect to critical load exceedance. *Environment International*, **2020**, 136, 105468	12.9	9
107	Impact of buildings on surface solar radiation over urban Beijing. *Atmospheric Chemistry and Physics* , **2016**, 16, 5841-5852	6.8	9
106	A Review on Adsorption Technologies for Mercury Emission Control. *Bulletin of Environmental Contamination and Toxicology*, **2019**, 103, 155-162	2.7	9
105	Fossil fuel combustion and biomass burning sources of global black carbon from GEOS-Chem simulation and carbon isotope measurements. *Atmospheric Chemistry and Physics*, **2019**, 19, 11545-11557	6.8	9
104	Airborne trace metals from coal combustion in Beijing. *Air Quality, Atmosphere and Health*, **2013**, 6, 157-165	3.6	9
103	Toxic potency-adjusted control of air pollution for solid fuel combustion. *Nature Energy*,	62.3	9
102	Incorporating health co-benefits into technology pathways to achieve China's 2060 carbon neutrality goal: a modelling study. *Lancet Planetary Health, The*, **2021**, 5, e808-e817	9.8	9

101	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	3.6	8
100	Chemical characteristics and sources of water-soluble organic aerosol in southwest suburb of Beijing. *Journal of Environmental Sciences*, **2020**, 95, 99-110	6.4	8
99	Minamata Convention on Mercury: Chinese progress and perspectives. *National Science Review*, **2017**, 4, 677-679	10.8	8
98	Development and Assessment of a High-Resolution Biogenic Emission Inventory from Urban Green Spaces in China.. *Environmental Science & Technology*, **2021**,	10.3	8
97	Characteristics and Sources of Speciated Atmospheric Mercury at a Coastal Site in the East China Sea Region. *Aerosol and Air Quality Research*, **2017**, 17, 2913-2923	4.6	8
96	Non-negligible contributions to human health from increased household air pollution exposure during the COVID-19 lockdown in China. *Environment International*, **2021**, 158, 106918	12.9	8
95	Chemical deactivation of Selective Catalytic Reduction catalyst: Investigating the influence and mechanism of SeO2 poisoning. *Fuel*, **2020**, 269, 117435	7.1	8
94	Understand the local and regional contributions on air pollution from the view of human health impacts. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	8
93	Commodity plastic burning as a source of inhaled toxic aerosols. *Journal of Hazardous Materials*, **2021**, 416, 125820	12.8	8
92	Quantification of the enhancement of PM concentration by the downward transport of ozone from the stratosphere. *Chemosphere*, **2020**, 255, 126907	8.4	7
91	Source and sectoral contribution analysis of PM based on efficient response surface modeling technique over Pearl River Delta Region of China. *Science of the Total Environment*, **2020**, 737, 139655	10.2	7
90	Insights into extinction evolution during extreme low visibility events: Case study of Shanghai, China. *Science of the Total Environment*, **2018**, 618, 793-803	10.2	7
89	Mercury emission and speciation from industrial gold production using roasting process. *Journal of Geochemical Exploration*, **2016**, 170, 72-77	3.8	7
88	Combined solar power and storage as cost-competitive and grid-compatible supply for China's future carbon-neutral electricity system. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
87	Mercury accumulation in soil from atmospheric deposition in temperate steppe of Inner Mongolia, China. *Environmental Pollution*, **2020**, 258, 113692	9.3	7
86	Exploring deep learning for air pollutant emission estimation. *Geoscientific Model Development*, **2021**, 14, 4641-4654	6.3	7
85	Personal exposure to PM in Chinese rural households in the Yangtze River Delta. *Indoor Air*, **2019**, 29, 403-412	5.4	7
84	Switching to electric vehicles can lead to significant reductions of PM2.5 and NO2 across China. *One Earth*, **2021**, 4, 1037-1048	8.1	7

83	Potential environmental risk of trace elements in fly ash and gypsum from ultra-low emission coal-fired power plants in China. *Science of the Total Environment*, **2021**, 798, 149116	10.2	7
82	Source contribution analysis of mercury deposition using an enhanced CALPUFF-Hg in the central Pearl River Delta, China. *Environmental Pollution*, **2019**, 250, 1032-1043	9.3	6
81	Magnetic mineral constraint on lead isotope variations of coal fly ash and its implications for source discrimination. *Science of the Total Environment*, **2020**, 713, 136320	10.2	6
80	PM2.5 Emission Reduction by Technical Improvement in a Typical Coal-Fired Power Plant in China. *Aerosol and Air Quality Research*, **2017**, 17, 636-643	4.6	6
79	Assessment of meteorology vs. control measures in the China fine particular matter trend from 2013 to 2019 by an environmental meteorology index. *Atmospheric Chemistry and Physics*, **2021**, 21, 2999-3013	6.8	6
78	Health Benefits and Costs of Clean Heating Renovation: An Integrated Assessment in a Major Chinese City. *Environmental Science & Technology*, **2021**, 55, 10046-10055	10.3	6
77	China's greenhouse gas emissions for cropping systems from 1978-2016. *Scientific Data*, **2021**, 8, 171	8.2	6
76	Source Attribution for Mercury Deposition with an Updated Atmospheric Mercury Emission Inventory in the Pearl River Delta Region, China. *Frontiers of Environmental Science and Engineering*, **2018**, 13, 1	5.8	6
75	Enhancement of the polynomial functions response surface model for real-time analyzing ozone sensitivity. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	6
74	Unveiling the dipole synergic effect of biogenic and anthropogenic emissions on ozone concentrations. *Science of the Total Environment*, **2021**, 818, 151722	10.2	5
73	Gaseous and Particulate Chlorine Emissions From Typical Iron and Steel Industry in China. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032729	4.4	5
72	Data assimilation of ambient concentrations of multiple air pollutants using an emission-concentration response modeling framework. *Atmosphere*, **2020**, 11,	2.7	5
71	Role of emission controls in reducing the 2050 climate change penalty for PM in China. *Science of the Total Environment*, **2021**, 765, 144338	10.2	5
70	Enhanced mercury control but increased bromine and sulfur trioxides emissions after using bromine injection technology based on full-scale experiment. *Fuel*, **2021**, 285, 119130	7.1	5
69	Mapping the daily nitrous acid (HONO) concentrations across China during 2006-2017 through ensemble machine-learning algorithm. *Science of the Total Environment*, **2021**, 785, 147325	10.2	5
68	Determination of the stable carbon isotopic compositions of 2-methyltetrols for four forest areas in Southwest China: The implications for the □ values of atmospheric isoprene and C/C vegetation distribution. *Science of the Total Environment*, **2019**, 678, 780-792	10.2	4
67	Source influence on emission pathways and ambient PM_{2.5} pollution over India (2015□2050) **2017**,		4
66	Variations and Sources of Organic Aerosol in Winter Beijing under Markedly Reduced Anthropogenic Activities During COVID-2019. *Environmental Science & Technology*, **2021**,	10.3	4

65	Impacts of biogenic emissions from urban landscapes on summer ozone and secondary organic aerosol formation in megacities.. *Science of the Total Environment*, **2021**, 152654	10.2	4
64	Mercury transformation and speciation in flue gases from anthropogenic emission sources: a critical review		4
63	Wind-blown dust and its impacts on particulate matter pollution in northern China: current and future scenario. *Environmental Research Letters*,	6.2	4
62	Synthesis and evaluation of pyrolysis waste peat char supported catalyst for steam reforming of toluene. *Renewable Energy*, **2020**, 160, 964-973	8.1	4
61	N-stable isotope analysis of NH : An overview on analytical measurements, source sampling and its source apportionment. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 126	5.8	4
60	Predicting the Nonlinear Response of PM and Ozone to Precursor Emission Changes with a Response Surface Model. *Atmosphere*, **2021**, 12, 1-1044	2.7	4
59	Health Benefits of Emission Reduction under 1.5 C Pathways Far Outweigh Climate-Related Variations in China. *Environmental Science & Technology*, **2021**,	10.3	4
58	Source impact and contribution analysis of ambient ozone using multi-modeling approaches over the Pearl River Delta region, China. *Environmental Pollution*, **2021**, 289, 117860	9.3	4
57	Optimization of a NO and VOC Cooperative Control Strategy Based on Clean Air Benefits.. *Environmental Science & Technology*, **2021**,	10.3	4
56	Diurnal variations of fossil and nonfossil carbonaceous aerosols in Beijing. *Atmospheric Environment* , **2015**, 122, 349-356	5.3	3
55	Air pollution complex: Understanding the sources, formation processes and health effects. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 1	5.8	3
54	Large-scale meteorological control on the spatial pattern of wintertime PM2.5 pollution over China. *Atmospheric Science Letters*, **2019**, 20, e938	2.4	3
53	Estimating the potential for industrial waste heat reutilization in urban district energy systems: method development and implementation in two Chinese provinces. *Environmental Research Letters*, **2017**, 12, 125008	6.2	3
52	Source contribution analysis of PM using Response Surface Model and Particulate Source Apportionment Technology over the PRD region, China. *Science of the Total Environment*, **2021**, 151757	10.2	3
51	Addressing Unresolved Complex Mixture of I/SVOCs Emitted From Incomplete Combustion of Solid Fuels by Nontarget Analysis. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD035835	4.4	3
50	Atmospheric mercury concentration and chemical speciation at a rural site in Beijing, China: implication of mercury emission sources		3
49	Impacts of Coal Burning on Ambient PM_{2.5} Pollution in China **2016**,		3
48	Impact of anthropogenic heat emissions on meteorological parameters and air quality in Beijing using a high-resolution model simulation. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 1	5.8	3

47	Highly Resolved Inventory of Mercury Release to Water from Anthropogenic Sources in China. *Environmental Science & Technology*, **2021**, 55, 13860-13868	10.3	3
46	Impacts of chlorine chemistry and anthropogenic emissions on secondary pollutants in the Yangtze river delta region. *Environmental Pollution*, **2021**, 287, 117624	9.3	3
45	The silver linings of mercury: Reconsideration of its impacts on living organisms from a multi-timescale perspective. *Environment International*, **2021**, 155, 106670	12.9	3
44	Measurement and minutely-resolved source apportionment of ambient VOCs in a corridor city during 2019 China International Import Expo episode. *Science of the Total Environment*, **2021**, 798, 149375	10.2	3
43	Full-volatility emission framework corrects missing and underestimated secondary organic aerosol sources. *One Earth*, **2022**, 5, 403-412	8.1	3
42	Developing a statistical model to explain the observed decline of atmospheric mercury. *Atmospheric Environment*, **2020**, 243, 117868	5.3	2
41	A modeling study of the nonlinear response of fine particles to air pollutant emissions in the Beijing-Tianjin-Hebei region **2017**,		2
40	Impacts of U.S. Carbon Tariffs on China□ Foreign Trade and Social Welfare. *Sustainability*, **2019**, 11, 5278	3.6	2
39	What Influences the Cross-Border Air Pollutant Transfer in China□United States Trade: A Comparative Analysis Using the Extended IO-SDA Method. *Sustainability*, **2019**, 11, 6252	3.6	2
38	Assessing the nonlinear response of fine particles to precursor emissions: development and application of an Extended Response Surface Modeling technique (ERSM v1.0) **2014**,		2
37	Impact of biomass burning on haze pollution in the Yangtze River Delta, China: a case study in summer 2011		2
36	Global Economic Structure Transition Boosts Atmospheric Mercury Emissions in China. *Earthis Future*, **2021**, 9, e2021EF002076	7.9	2
35	Possible heterogeneous hydroxymethanesulfonate (HMS) chemistry in northern China winter haze and implications for rapid sulfate formation **2018**,		2
34	Fine particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models **2018**,		2
33	Catalytic toluene steam reforming using Ni supported catalyst from pyrolytic peat. *Fuel Processing Technology*, **2021**, 224, 107032	7.2	2
32	The toxicity emissions and spatialized health risks of heavy metals in PM2.5 from biomass fuels burning. *Atmospheric Environment*, **2022**, 119178	5.3	2
31	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017 **2019**,		1
30	Air Pollution and Lung Cancer Risks **2019**, 29-40		1

29	Assessing the impact of Clean Air Action Plan on Air Quality Trends in Beijing Megacity using a machine learning technique **2019**,		1
28	Impacts of Anthropogenic Emissions and Meteorological Variation on Hg Wet Deposition in Chongming, China. *Atmosphere*, **2020**, 11, 1301	2.7	1
27	Updated atmospheric mercury emissions from iron and steel production in China during 2000–2015 **2017**,		1
26	Development and case study of a new-generation model-VAT for analyzing the boundary conditions influence on atmospheric mercury simulation. *Frontiers of Environmental Science and Engineering*, **2018**, 12, 1	5.8	1
25	Ensemble Predictions of Air Pollutants in China in 2013 for Health Effects Studies Using WRF/CMAQ Modeling System with Four Emission Inventories **2017**,		1
24	Significant Contribution of Coarse Black Carbon Particles to Light Absorption in North China Plain. *Environmental Science and Technology Letters*, **2022**, 9, 134-139	11	1
23	Impacts of Removal Compensation Effect on the Mercury Emission Inventories for Nonferrous Metal (Zinc, Lead, and Copper) Smelting in China.. *Environmental Science & Technology*, **2022**,	10.3	1
22	Improvements of response surface modeling with self-adaptive machine learning method for PM and O predictions. *Journal of Environmental Management*, **2021**, 303, 114210	7.9	1
21	Mercury Speciation and Fine Particle Size Distribution on Combustion of Chinese Coals **2013**, 313-321		1
20	Modeling Biogenic and Anthropogenic Secondary Organic Aerosol in China **2016**,		1
19	Decomposition Analysis of Factors that Drive the Changes of Major Air Pollutant Emissions in China at a Multi-Regional Level. *Sustainability*, **2019**, 11, 7113	3.6	1
18	Flame synthesized nanoscale catalyst (CuCeWTi) with excellent Hg oxidation activity and hydrothermal resistance. *Journal of Hazardous Materials*, **2021**, 408, 124427	12.8	1
17	The influence of spatiality on shipping emissions, air quality and potential human exposure in Yangtze River Delta/Shanghai, China **2018**,		1
16	High efficiency of livestock ammonia emission controls on alleviating particulate nitrate during a severe winter haze episode in northern China **2018**,		1
15	Critical loads of headwater streams in China using SSWC model modified by comprehensive F-factor. *Science of the Total Environment*, **2022**, 802, 149780	10.2	1
14	Air pollutant emissions induced by rural-to-urban migration during China's urbanization (2005–2015). *Environmental Science and Ecotechnology*, **2022**, 10, 100166	7.4	1
13	High-yield H2 production from polypropylene through pyrolysis-catalytic reforming over activated carbon based nickel catalyst. *Journal of Cleaner Production*, **2022**, 352, 131566	10.3	1
12	Regional demarcation of synergistic control for PM and ozone pollution in China based on long-term and massive data mining.. *Science of the Total Environment*, **2022**, 155975	10.2	1

11	Mercury emission characteristics and mechanism in the raw mill system of cement clinker production. *Journal of Hazardous Materials*, **2022**, 430, 128403	12.8	0
10	Mimicking atmospheric photochemical modelling with a deep neural network. *Atmospheric Research*, **2022**, 265, 1-11	5.4	0
9	Effect of the Coal Preparation Process on Mercury Flows and Emissions in Coal Combustion Systems. *Environmental Science & Technology*, **2021**, 55, 13687-13696	10.3	0
8	New region demarcation method for implementing the Joint Prevention and Control of Atmospheric Pollution policy in China. *Journal of Cleaner Production*, **2021**, 325, 129345	10.3	0
7	Polar organic aerosol tracers in two areas in Beijing-Tianjin-Hebei region: Concentration comparison before and in the sept. Third Parade and sources. *Environmental Pollution*, **2021**, 270, 116108	9.3	0
6	Surface modification of TiO2 particles with 12-hydroxy stearic acid and the effect of particle size on the mechanical and thermal properties of thermoplastic polyurethane urea elastomers. *Journal of Applied Polymer Science*, **2021**, 138, 49898	2.9	0
5	Role of black carbon in modulating aerosol direct effects driven by air pollution controls during 2013-2017 in China.. *Science of the Total Environment*, **2022**, 154928	10.2	0
4	The pathway of impacts of aerosol direct effects on secondary inorganic aerosol formation. *Atmospheric Chemistry and Physics*, **2022**, 22, 5147-5156	6.8	0
3	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**, 119284	9.3	0
2	Impacts of large-scale deployment of mountainous wind farms on wintertime regional air quality in the Beijing-Tian-Hebei area. *Atmospheric Environment*, **2022**, 278, 119074	5.3	
1	Response surface model based emission source contribution and meteorological pattern analysis in ozone polluted days.. *Environmental Pollution*, **2022**, 119459	9.3	