Shuxiao Wang

List of Publications by Year
in descending order

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374 papers	27,538 citations	4960 84 h-index	9345 143 g-index
457 all docs	457 docs citations	457 times ranked	16439 citing authors

#	Article	IF	Citations
1	Drivers of improved PM _{2.5} 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.	7.1	1,193
2	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.	8.0	815
3	Air quality management in China: Issues, challenges, and options. Journal of Environmental Sciences, 2012, 24, 2-13.	6.1	462
4	Primary air pollutant emissions of coal-fired power plants in China: Current status and future prediction. Atmospheric Environment, 2008, 42, 8442-8452.	4.1	409
5	Trends in Anthropogenic Mercury Emissions in China from 1995 to 2003. Environmental Science & Technology, 2006, 40, 5312-5318.	10.0	406
6	Particulate and Trace Gas Emissions from Open Burning of Wheat Straw and Corn Stover in China. Environmental Science & Technology, 2007, 41, 6052-6058.	10.0	373
7	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	4.9	365
8	NO_x emissions in China: historical trends and future perspectives. Atmospheric Chemistry and Physics, 2013, 13, 9869-9897.	4.9	359
9	Updated Emission Inventories for Speciated Atmospheric Mercury from Anthropogenic Sources in China. Environmental Science & Technology, 2015, 49, 3185-3194.	10.0	356
10	Mercury emission and speciation of coal-fired power plants in China. Atmospheric Chemistry and Physics, 2010, 10, 1183-1192.	4.9	352
11	The impact of the â€œAir Pollution Prevention and Control Action Planâ€•on PM2.5 concentrations in Jing-Jin-Ji region during 2012â€“2020. Science of the Total Environment, 2017, 580, 197-209.	8.0	344
12	Air pollution and control action in Beijing. Journal of Cleaner Production, 2016, 112, 1519-1527.	9.3	329
13	Quantifying the Air Pollutants Emission Reduction during the 2008 Olympic Games in Beijing. Environmental Science & Technology, 2010, 44, 2490-2496.	10.0	327
14	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.	7.1	308
15	Status and characteristics of ambient PM2.5 pollution in global megacities. Environment International, 2016, 89-90, 212-221.	10.0	287
16	Emission inventory of primary pollutants and chemical speciation in 2010 for the Yangtze River Delta region, China. Atmospheric Environment, 2013, 70, 39-50.	4.1	286
17	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. Environment International, 2019, 126, 747-761.	10.0	278
18	Emission trends and mitigation options for air pollutants in East Asia. Atmospheric Chemistry and Physics, 2014, 14, 6571-6603.	4.9	269

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19	Change in household fuels dominates the decrease in PM _{2.5} exposure and premature mortality in China in 2005â€“2015. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12401-12406.	7.1	262
20	Temporal Trend and Spatial Distribution of Speciated Atmospheric Mercury Emissions in China During 1978â€“2014. Environmental Science & Technology, 2016, 50, 13428-13435.	10.0	255
21	Particulate matter pollution over China and the effects of control policies. Science of the Total Environment, 2017, 584-585, 426-447.	8.0	252
22	Emission and speciation of non-methane volatile organic compounds from anthropogenic sources in China. Atmospheric Environment, 2008, 42, 4976-4988.	4.1	242
23	A novel TiO2/biochar composite catalysts for photocatalytic degradation of methyl orange. Chemosphere, 2019, 222, 391-398.	8.2	238
24	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.	4.1	237
25	Impact Assessment of Ammonia Emissions on Inorganic Aerosols in East China Using Response Surface Modeling Technique. Environmental Science & Technology, 2011, 45, 9293-9300.	10.0	222
26	Progress of Air Pollution Control in China and Its Challenges and Opportunities in the Ecological Civilization Era. Engineering, 2020, 6, 1423-1431.	6.7	222
27	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.	4.9	215
28	Fine-particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models. Atmospheric Chemistry and Physics, 2018, 18, 7423-7438.	4.9	208
29	Sulfur-modified rice husk biochar: A green method for the remediation of mercury contaminated soil. Science of the Total Environment, 2018, 621, 819-826.	8.0	206
30	Particle Size Distribution and Polycyclic Aromatic Hydrocarbons Emissions from Agricultural Crop Residue Burning. Environmental Science & Technology, 2011, 45, 5477-5482.	10.0	202
31	The impact of transportation control measures on emission reductions during the 2008 Olympic Games in Beijing, China. Atmospheric Environment, 2010, 44, 285-293.	4.1	199
32	Impact of national NOx and SO2 control policies on particulate matter pollution in China. Atmospheric Environment, 2013, 77, 453-463.	4.1	199
33	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.	4.9	198
34	Establishment of a database of emission factors for atmospheric pollutants from Chinese coal-fired power plants. Atmospheric Environment, 2010, 44, 1515-1523.	4.1	194
35	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.	4.9	194
36	Carbonaceous Aerosol Emissions from Household Biofuel Combustion in China. Environmental Science & Technology, 2009, 43, 6076-6081.	10.0	192

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37	Characteristics and health impacts of particulate matter pollution in China (2001â€“2011). Atmospheric Environment, 2013, 65, 186-194.	4.1	192
38	Projections of SO₂, NO_x and carbonaceous aerosols emissions in Asia. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 602.	1.6	186
39	Estimated Contributions of Emissions Controls, Meteorological Factors, Population Growth, and Changes in Baseline Mortality to Reductions in Ambient PM2.5 and PM2.5-Related Mortality in China, 2013â€“2017. Environmental Health Perspectives, 2019, 127, 67009.	6.0	186
40	Persistent Heavy Winter Nitrate Pollution Driven by Increased Photochemical Oxidants in Northern China. Environmental Science & Technology, 2020, 54, 3881-3889.	10.0	180
41	Long-term trend of haze pollution and impact of particulate matter in the Yangtze River Delta, China. Environmental Pollution, 2013, 182, 101-110.	7.5	179
42	Nitrate dominates the chemical composition of PM2.5 during haze event in Beijing, China. Science of the Total Environment, 2019, 689, 1293-1303.	8.0	179
43	Air quality and health benefits from fleet electrification in China. Nature Sustainability, 2019, 2, 962-971.	23.7	174
44	Impact of aerosolâ€“meteorology interactions on fine particle pollution during Chinaâ€™s severe haze episode in January 2013. Environmental Research Letters, 2014, 9, 094002.	5.2	172
45	Air pollution and lung cancer risks in Chinaâ€”a meta-analysis. Science of the Total Environment, 2006, 366, 500-513.	8.0	162
46	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.	8.0	159
47	Premature Mortality Attributable to Particulate Matter in China: Source Contributions and Responses to Reductions. Environmental Science & Technology, 2017, 51, 9950-9959.	10.0	152
48	A Highly Resolved Mercury Emission Inventory of Chinese Coal-Fired Power Plants. Environmental Science & Technology, 2018, 52, 2400-2408.	10.0	152
49	Contributions of inter-city and regional transport to PM2.5 concentrations in the Beijing-Tianjin-Hebei region and its implications on regional joint air pollution control. Science of the Total Environment, 2019, 660, 1191-1200.	8.0	149
50	Source influence on emission pathways and ambient PM_{2.5} pollution over India (2015â€“2050). Atmospheric Chemistry and Physics, 2018, 18, 8017-8039.	4.9	148
51	Increasing Ammonia Concentrations Reduce the Effectiveness of Particle Pollution Control Achieved via SO₂ and NO_X Emissions Reduction in East China. Environmental Science and Technology Letters, 2017, 4, 221-227.	8.7	142
52	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.	4.1	140
53	Effectiveness of national air pollution control policies on the air quality in metropolitan areas of China. Journal of Environmental Sciences, 2014, 26, 13-22.	6.1	138
54	Modeling biogenic and anthropogenic secondary organic aerosol in China. Atmospheric Chemistry and Physics, 2017, 17, 77-92.	4.9	137

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55	Influence of Mercury and Chlorine Content of Coal on Mercury Emissions from Coal-Fired Power Plants in China. Environmental Science & Technology, 2012, 46, 6385-6392.	10.0	136
56	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.	8.0	134
57	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.	10.0	132
58	Ozone and secondary organic aerosol formation potential from anthropogenic volatile organic compounds emissions in China. Journal of Environmental Sciences, 2017, 53, 224-237.	6.1	129
59	Impacts of aerosol direct effects on tropospheric ozone through changes in atmospheric dynamics and photolysis rates. Atmospheric Chemistry and Physics, 2017, 17, 9869-9883.	4.9	129
60	Verification of anthropogenic emissions of China by satellite and ground observations. Atmospheric Environment, 2011, 45, 6347-6358.	4.1	124
61	Impacts of coal burning on ambient PM_{2.5} pollution in China. Atmospheric Chemistry and Physics, 2017, 17, 4477-4491.	4.9	124
62	Mercury Flows in China and Global Drivers. Environmental Science & Technology, 2017, 51, 222-231.	10.0	121
63	Rapid SO₂ emission reductions significantly increase tropospheric ammonia concentrations over the North China Plain. Atmospheric Chemistry and Physics, 2018, 18, 17933-17943.	4.9	121
64	Characteristics of gaseous pollutants from biofuel-stoves in rural China. Atmospheric Environment, 2009, 43, 4148-4154.	4.1	117
65	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.	4.1	115
66	Mercury transformation and speciation in flue gases from anthropogenic emission sources: a critical review. Atmospheric Chemistry and Physics, 2016, 16, 2417-2433.	4.9	114
67	A review of atmospheric mercury emissions, pollution and control in China. Frontiers of Environmental Science and Engineering, 2014, 8, 631-649.	6.0	111
68	Important fossil source contribution to brown carbon in Beijing during winter. Scientific Reports, 2017, 7, 43182.	3.3	111
69	Quantifying the effect of organic aerosol aging and intermediate-volatility emissions on regional-scale aerosol pollution in China. Scientific Reports, 2016, 6, 28815.	3.3	110
70	Source apportionment of fine particulate matter during autumn haze episodes in Shanghai, China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1903-1914.	3.3	109
71	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.	9.3	107
72	Transition in source contributions of PM2.5 exposure and associated premature mortality in China during 2005â€“2015. Environment International, 2019, 132, 105111.	10.0	104

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73	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.	8.0	102
74	Urban cross-sector actions for carbon mitigation with local health co-benefits in China. Nature Climate Change, 2017, 7, 736-742.	18.8	102
75	Environmental effects of the recent emission changes in China: implications for particulate matter pollution and soil acidification. Environmental Research Letters, 2013, 8, 024031.	5.2	101
76	Deriving High-Resolution Emission Inventory of Open Biomass Burning in China based on Satellite Observations. Environmental Science & Technology, 2016, 50, 11779-11786.	10.0	101
77	Emission Characteristics of Particulate Matter from Rural Household Biofuel Combustion in China. Energy & Fuels, 2007, 21, 845-851.	5.1	100
78	Source-specific speciation profiles of PM2.5 for heavy metals and their anthropogenic emissions in China. Environmental Pollution, 2018, 239, 544-553.	7.5	100
79	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. Atmospheric Chemistry and Physics, 2019, 19, 1357-1371.	4.9	97
80	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.	4.9	95
81	Measure-Specific Effectiveness of Air Pollution Control on Chinaâ€™s Atmospheric Mercury Concentration and Deposition during 2013â€“2017. Environmental Science & Technology, 2019, 53, 8938-8946.	10.0	95
82	Projections of air pollutant emissions and its impacts on regional air quality in China in 2020. Atmospheric Chemistry and Physics, 2011, 11, 3119-3136.	4.9	94
83	Gaseous Ammonia Emissions from Coal and Biomass Combustion in Household Stoves with Different Combustion Efficiencies. Environmental Science and Technology Letters, 2016, 3, 98-103.	8.7	94
84	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. Science of the Total Environment, 2017, 580, 283-296.	8.0	93
85	The quest for improved air quality may push China to continue its CO ₂ reduction beyond the Paris Commitment. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29535-29542.	7.1	93
86	A modeling study of the nonlinear response of fine particles to air pollutant emissions in the Beijingâ€“Tianjinâ€“Hebei region. Atmospheric Chemistry and Physics, 2017, 17, 12031-12050.	4.9	92
87	Linking science and policy to support the implementation of the Minamata Convention on Mercury. Ambio, 2018, 47, 198-215.	5.5	92
88	Assessment of inter-city transport of particulate matter in the Beijingâ€“Tianjinâ€“Hebei region. Atmospheric Chemistry and Physics, 2018, 18, 4843-4858.	4.9	90
89	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.	9.3	90
90	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.	4.1	88

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91	Anthropogenic Emissions of Hydrogen Chloride and Fine Particulate Chloride in China. Environmental Science & Technology, 2018, 52, 1644-1654.	10.0	88
92	Projection of anthropogenic volatile organic compounds (VOCs) emissions in China for the period 2010â€“2020. Atmospheric Environment, 2011, 45, 6863-6871.	4.1	87
93	Regional transport in Beijing-Tianjin-Hebei region and its changes during 2014â€“2017: The impacts of meteorology and emission reduction. Science of the Total Environment, 2020, 737, 139792.	8.0	85
94	Internal migration and urbanization in China: Impacts on population exposure to household air pollution (2000â€“2010). Science of the Total Environment, 2014, 481, 186-195.	8.0	84
95	Characteristics of NOx emission from Chinese coal-fired power plants equipped with new technologies. Atmospheric Environment, 2016, 131, 164-170.	4.1	84
96	Mitigation Options of Atmospheric Hg Emissions in China. Environmental Science & Technology, 2018, 52, 12368-12375.	10.0	84
97	Residential Coal Combustion as a Source of Levoglucosan in China. Environmental Science & Technology, 2018, 52, 1665-1674.	10.0	83
98	Impact of air pollution control policies on future PM2.5 concentrations and their source contributions in China. Journal of Environmental Management, 2018, 227, 124-133.	7.8	82
99	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.	4.9	82
100	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.	4.1	81
101	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.	4.9	81
102	Update of mercury emissions from China's primary zinc, lead and copper smelters, 2000â€“2010. Atmospheric Chemistry and Physics, 2012, 12, 11153-11163.	4.9	80
103	Historical Trends in PM _{2.5} -Related Premature Mortality during 1990â€“2010 across the Northern Hemisphere. Environmental Health Perspectives, 2017, 125, 400-408.	6.0	80
104	Synthesis of calcium materials in biochar matrix as a highly stable catalyst for biodiesel production. Renewable Energy, 2019, 130, 41-49.	8.9	79
105	Source apportionment of atmospheric mercury pollution in China using the GEOS-Chem model. Environmental Pollution, 2014, 190, 166-175.	7.5	78
106	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.	4.9	78
107	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.	7.1	78
108	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.	3.3	77

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109	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.	12.7	75
110	Uncertainties in estimating mercury emissions from coal-fired power plants in China. Atmospheric Chemistry and Physics, 2010, 10, 2937-2946.	4.9	74
111	Particulate Matter Distributions in China during a Winter Period with Frequent Pollution Episodes (January 2013). Aerosol and Air Quality Research, 2015, 15, 494-503.	2.1	74
112	Mitigation Potential of Mercury Emissions from Coal-Fired Power Plants in China. Energy & Fuels, 2012, 26, 4635-4642.	5.1	73
113	Effect of selective catalytic reduction (SCR) on fine particle emission from two coal-fired power plants in China. Atmospheric Environment, 2015, 120, 227-233.	4.1	72
114	Mass-dependent and mass-independent fractionation of mercury isotopes in precipitation from Guiyang, SW China. Comptes Rendus - Geoscience, 2015, 347, 358-367.	1.2	71
115	Assessing the Future Vehicle Fleet Electrification: The Impacts on Regional and Urban Air Quality. Environmental Science & Technology, 2017, 51, 1007-1016.	10.0	71
116	Global health effects of future atmospheric mercury emissions. Nature Communications, 2021, 12, 3035.	12.8	71
117	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.	4.9	70
118	Mercury sorption study of halides modified bio-chars derived from cotton straw. Chemical Engineering Journal, 2016, 302, 305-313.	12.7	70
119	Combined solar power and storage as cost-competitive and grid-compatible supply for Chinaâ€™s future carbon-neutral electricity system. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	70
120	Modeling analysis of secondary inorganic aerosols over China: pollution characteristics, and meteorological and dust impacts. Scientific Reports, 2016, 6, 35992.	3.3	69
121	Material Flow for the Intentional Use of Mercury in China. Environmental Science & Technology, 2016, 50, 2337-2344.	10.0	69
122	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.	8.0	68
123	Quantification of the enhanced effectiveness of NO_{<i>x</i>} control from simultaneous reductions of VOC and NH₃ for reducing air pollution in the Beijingâ€“Tianjinâ€“Hebei region, China. Atmospheric Chemistry and Physics, 2018, 18, 7799-7814.	4.9	68
124	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.	10.0	68
125	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.	6.4	66
126	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.	4.9	64

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127	Pollutant emissions from residential combustion and reduction strategies estimated via a village-based emission inventory in Beijing. Environmental Pollution, 2018, 238, 230-237.	7.5	64
128	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, 1057-1069.	1.9	63
129	Mechanism identification of temperature influence on mercury adsorption capacity of different halides modified bio-chars. Chemical Engineering Journal, 2017, 315, 251-261.	12.7	62
130	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.	11.4	62
131	Wet deposition of mercury at Lhasa, the capital city of Tibet. Science of the Total Environment, 2013, 447, 123-132.	8.0	61
132	Enhanced PM2.5 pollution in China due to aerosol-cloud interactions. Scientific Reports, 2017, 7, 4453.	3.3	61
133	Were mercury emission factors for Chinese non-ferrous metal smelters overestimated? Evidence from onsite measurements in six smelters. Environmental Pollution, 2012, 171, 109-117.	7.5	60
134	Development of a unit-based industrial emission inventory in the Beijingâ€“Tianjinâ€“Hebei region and resulting improvement in air quality modeling. Atmospheric Chemistry and Physics, 2019, 19, 3447-3462.	4.9	60
135	Intake fraction of PM2.5 and NOX from vehicle emissions in Beijing based on personal exposure data. Atmospheric Environment, 2012, 57, 233-243.	4.1	59
136	Population-weighted exposure to PM2.5 pollution in China: An integrated approach. Environment International, 2018, 120, 111-120.	10.0	59
137	Toxic potency-adjusted control of air pollution for solid fuel combustion. Nature Energy, 2022, 7, 194-202.	39.5	59
138	New Insight into Atmospheric Mercury Emissions from Zinc Smelters Using Mass Flow Analysis. Environmental Science & Technology, 2015, 49, 3532-3539.	10.0	58
139	Deep Learning for Prediction of the Air Quality Response to Emission Changes. Environmental Science & Technology, 2020, 54, 8589-8600.	10.0	58
140	A novel peat biochar supported catalyst for the transesterification reaction. Energy Conversion and Management, 2017, 139, 89-96.	9.2	57
141	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.	7.1	57
142	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.	4.9	57
143	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015â€“2018/2019. Environmental Science and Technology Letters, 2019, 6, 752-760.	8.7	56
144	Effects of air pollution control measures on air quality improvement in Guangzhou, China. Journal of Environmental Management, 2019, 244, 127-137.	7.8	56

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145	Quantifying Nonlinear Multiregional Contributions to Ozone and Fine Particles Using an Updated Response Surface Modeling Technique. Environmental Science & Technology, 2017, 51, 11788-11798.	10.0	55
146	Air pollutants in rural homes in Guizhou, China â€“ Concentrations, speciation, and size distribution. Atmospheric Environment, 2010, 44, 4575-4581.	4.1	54
147	Trends of chemical speciation profiles of anthropogenic volatile organic compounds emissions in China, 2005â€“2020. Frontiers of Environmental Science and Engineering, 2014, 8, 27-41.	6.0	53
148	Evaluation of One-Dimensional and Two-Dimensional Volatility Basis Sets in Simulating the Aging of Secondary Organic Aerosol with Smog-Chamber Experiments. Environmental Science & Technology, 2015, 49, 2245-2254.	10.0	53
149	Recent decrease trend of atmospheric mercury concentrations in East China: the influence of anthropogenic emissions. Atmospheric Chemistry and Physics, 2018, 18, 8279-8291.	4.9	53
150	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.	4.9	53
151	Impacts of emissions and meteorological changes on Chinaâ€™s ozone pollution in the warm seasons of 2013 and 2017. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	53
152	Seesaw haze pollution in North China modulated by the sub-seasonal variability of atmospheric circulation. Atmospheric Chemistry and Physics, 2019, 19, 565-576.	4.9	53
153	Assessment of population exposure to particulate matter pollution in Chongqing, China. Environmental Pollution, 2008, 153, 247-256.	7.5	52
154	Estimating mercury emissions from a zinc smelter in relation to Chinaâ€™s mercury control policies. Environmental Pollution, 2010, 158, 3347-3353.	7.5	52
155	Speciation of mercury in FGD gypsum and mercury emission during the wallboard production in China. Fuel, 2013, 111, 621-627.	6.4	52
156	Spatial and temporal variation of haze in China from 1961 to 2012. Journal of Environmental Sciences, 2016, 46, 134-146.	6.1	52
157	Flow Analysis of the Mercury Associated with Nonferrous Ore Concentrates: Implications on Mercury Emissions and Recovery in China. Environmental Science & Technology, 2016, 50, 1796-1803.	10.0	52
158	Sources of gaseous NH3 in urban Beijing from parallel sampling of NH3 and NH4+, their nitrogen isotope measurement and modeling. Science of the Total Environment, 2020, 747, 141361.	8.0	52
159	Optimization of a NO_x and VOC Cooperative Control Strategy Based on Clean Air Benefits. Environmental Science & Technology, 2022, 56, 739-749.	10.0	52
160	Mercury mass flow in iron and steel production process and its implications for mercury emission control. Journal of Environmental Sciences, 2016, 43, 293-301.	6.1	51
161	Role of inherent active constituents on mercury adsorption capacity of chars from four solid wastes. Chemical Engineering Journal, 2017, 307, 544-552.	12.7	51
162	Primary Suppliers Driving Atmospheric Mercury Emissions through Global Supply Chains. One Earth, 2019, 1, 254-266.	6.8	50

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163	Characterization of non-methane hydrocarbons emitted from open burning of wheat straw and corn stover in China. Environmental Research Letters, 2009, 4, 044015.	5.2	49
164	Nonlinear relationships between air pollutant emissions and PM2.5-related health impacts in the Beijing-Tianjin-Hebei region. Science of the Total Environment, 2019, 661, 375-385.	8.0	49
165	Mercury enrichment and its effects on atmospheric emissions in cement plants of China. Atmospheric Environment, 2014, 92, 421-428.	4.1	48
166	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.	3.6	48
167	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.	4.9	48
168	Environmental Justice Aspects of Exposure to PM_{2.5} Emissions from Electric Vehicle Use in China. Environmental Science & Technology, 2015, 49, 13912-13920.	10.0	47
169	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.	6.1	47
170	Air quality and health co-benefits of China's national emission trading system. Applied Energy, 2020, 261, 114226.	10.1	47
171	Introduction: Air Pollution in China. China Quarterly, 2018, 234, 279-298.	0.7	46
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