

Hezhong Tian

List of Publications by Year in descending order

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88
papers

6,808
citations

57719

44
h-index

62565

80
g-index

96
all docs

96
docs citations

96
times ranked

5632
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic mercury emissions in China. <i>Atmospheric Environment</i> , 2005, 39, 7789-7806.	1.9	599
2	Formation and evolution mechanism of regional haze: a case study in the megacity Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4501-4514.	1.9	391
3	Quantitative assessment of atmospheric emissions of toxic heavy metals from anthropogenic sources in China: historical trend, spatial distribution, uncertainties, and control policies. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10127-10147.	1.9	354
4	Temporal-spatial characteristics and source apportionment of PM _{2.5} as well as its associated chemical species in the Beijing-Tianjin-Hebei region of China. <i>Environmental Pollution</i> , 2018, 233, 714-724.	3.7	256
5	Trend and characteristics of atmospheric emissions of Hg, As, and Se from coal combustion in China, 1980–2007. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11905-11919.	1.9	252
6	The variation of chemical characteristics of PM _{2.5} and PM ₁₀ and formation causes during two haze pollution events in urban Beijing, China. <i>Atmospheric Environment</i> , 2015, 107, 1-8.	1.9	237
7	Temporal and spatial variation characteristics of atmospheric emissions of Cd, Cr, and Pb from coal in China. <i>Atmospheric Environment</i> , 2012, 50, 157-163.	1.9	206
8	Atmospheric Emission Inventory of Hazardous Trace Elements from China's Coal-Fired Power Plants—Temporal Trends and Spatial Variation Characteristics. <i>Environmental Science & Technology</i> , 2014, 48, 3575-3582.	4.6	168
9	Temporal Trends and Spatial Variation Characteristics of Hazardous Air Pollutant Emission Inventory from Municipal Solid Waste Incineration in China. <i>Environmental Science & Technology</i> , 2012, 46, 10364-10371.	4.6	155
10	A comprehensive emission inventory of multiple air pollutants from iron and steel industry in China: Temporal trends and spatial variation characteristics. <i>Science of the Total Environment</i> , 2016, 559, 7-14.	3.9	154
11	Emission Inventories of NO _x from Commercial Energy Consumption in China, 1995–1998. <i>Environmental Science & Technology</i> , 2002, 36, 552-560.	4.6	153
12	A Review of Key Hazardous Trace Elements in Chinese Coals: Abundance, Occurrence, Behavior during Coal Combustion and Their Environmental Impacts. <i>Energy & Fuels</i> , 2013, 27, 601-614.	2.5	153
13	A Highly Resolved Mercury Emission Inventory of Chinese Coal-Fired Power Plants. <i>Environmental Science & Technology</i> , 2018, 52, 2400-2408.	4.6	152
14	Atmospheric emissions estimation of Hg, As, and Se from coal-fired power plants in China, 2007. <i>Science of the Total Environment</i> , 2011, 409, 3078-3081.	3.9	151
15	Atmospheric Emission Characteristics and Control Policies of Five Precedent-Controlled Toxic Heavy Metals from Anthropogenic Sources in China. <i>Environmental Science & Technology</i> , 2015, 49, 1206-1214.	4.6	138
16	Characterizing remarkable changes of severe haze events and chemical compositions in multi-size airborne particles (PM ₁ , PM _{2.5} and PM ₁₀) from January 2013 to 2016–2017 winter in Beijing, China. <i>Atmospheric Environment</i> , 2018, 189, 133-144.	1.9	128
17	Sulfate formation is dominated by manganese-catalyzed oxidation of SO ₂ on aerosol surfaces during haze events. <i>Nature Communications</i> , 2021, 12, 1993.	5.8	128
18	Composition and sources of PM _{2.5} around the heating periods of 2013 and 2014 in Beijing: Implications for efficient mitigation measures. <i>Atmospheric Environment</i> , 2016, 124, 378-386.	1.9	120

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19	Seasonal and spatial variation of trace elements in multi-size airborne particulate matters of Beijing, China: Mass concentration, enrichment characteristics, source apportionment, chemical speciation and bioavailability. <i>Atmospheric Environment</i> , 2014, 99, 257-265.	1.9	117
20	Atmospheric pollution problems and control proposals associated with solid waste management in China: A review. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 142-154.	6.5	115
21	Atmospheric emission inventory of hazardous air pollutants from China's cement plants: Temporal trends, spatial variation characteristics and scenario projections. <i>Atmospheric Environment</i> , 2016, 128, 1-9.	1.9	114
22	Anthropogenic atmospheric nickel emissions and its distribution characteristics in China. <i>Science of the Total Environment</i> , 2012, 417-418, 148-157.	3.9	102
23	Measure-Specific Effectiveness of Air Pollution Control on China's Atmospheric Mercury Concentration and Deposition during 2013-2017. <i>Environmental Science & Technology</i> , 2019, 53, 8938-8946.	4.6	95
24	Spatial-temporal variation characteristics of air pollution in Henan of China: Localized emission inventory, WRF/Chem simulations and potential source contribution analysis. <i>Science of the Total Environment</i> , 2018, 624, 396-406.	3.9	93
25	Potentials of whole process control of heavy metals emissions from coal-fired power plants in China. <i>Journal of Cleaner Production</i> , 2016, 114, 343-351.	4.6	92
26	Increase of aerosol scattering by hygroscopic growth: Observation, modeling, and implications on visibility. <i>Atmospheric Research</i> , 2013, 132-133, 91-101.	1.8	88
27	Nitrogen Oxides Emissions from Thermal Power Plants in China: Current Status and Future Predictions. <i>Environmental Science & Technology</i> , 2013, 47, 11350-11357.	4.6	87
28	A Comprehensive Global Inventory of Atmospheric Antimony Emissions from Anthropogenic Activities, 1995-2010. <i>Environmental Science & Technology</i> , 2014, 48, 10235-10241.	4.6	87
29	Temporal trends and spatial variation characteristics of primary air pollutants emissions from coal-fired industrial boilers in Beijing, China. <i>Environmental Pollution</i> , 2016, 213, 717-726.	3.7	77
30	Atmospheric emission inventory of cadmium from anthropogenic sources. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 605-616.	1.8	76
31	Anthropogenic Atmospheric Emissions of Antimony and Its Spatial Distribution Characteristics in China. <i>Environmental Science & Technology</i> , 2012, 46, 3973-3980.	4.6	74
32	Atmospheric emissions of typical toxic heavy metals from open burning of municipal solid waste in China. <i>Atmospheric Environment</i> , 2017, 152, 6-15.	1.9	72
33	Impact of Relative Humidity and Water Soluble Constituents of PM _{2.5} on Visibility Impairment in Beijing, China. <i>Aerosol and Air Quality Research</i> , 2014, 14, 260-268.	0.9	71
34	Effects of Wet Flue Gas Desulfurization and Wet Electrostatic Precipitators on Emission Characteristics of Particulate Matter and Its Ionic Compositions from Four 300 MW Level Ultralow Coal-Fired Power Plants. <i>Environmental Science & Technology</i> , 2018, 52, 14015-14026.	4.6	68
35	Non-Negligible Stack Emissions of Noncriteria Air Pollutants from Coal-Fired Power Plants in China: Condensable Particulate Matter and Sulfur Trioxide. <i>Environmental Science & Technology</i> , 2020, 54, 6540-6550.	4.6	61
36	Variation, sources and historical trend of black carbon in Beijing, China based on ground observation and MERRA-2 reanalysis data. <i>Environmental Pollution</i> , 2019, 245, 853-863.	3.7	59

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37	A high-resolution emission inventory of anthropogenic trace elements in Beijing-Tianjin-Hebei (BTH) region of China. <i>Atmospheric Environment</i> , 2018, 191, 452-462.	1.9	58
38	Seasonal variation, formation mechanisms and potential sources of PM _{2.5} in two typical cities in the Central Plains Urban Agglomeration, China. <i>Science of the Total Environment</i> , 2019, 657, 657-670.	3.9	58
39	Effects of haze pollution on microbial community changes and correlation with chemical components in atmospheric particulate matter. <i>Science of the Total Environment</i> , 2018, 637-638, 507-516.	3.9	54
40	A regional high-resolution emission inventory of primary air pollutants in 2012 for Beijing and the surrounding five provinces of North China. <i>Atmospheric Environment</i> , 2018, 181, 20-33.	1.9	53
41	Global anthropogenic atmospheric emission inventory of twelve typical hazardous trace elements, 1995–2012. <i>Atmospheric Environment</i> , 2020, 220, 117061.	1.9	52
42	Temporal variation characteristics and source apportionment of metal elements in PM _{2.5} in urban Beijing during 2018–2019. <i>Environmental Pollution</i> , 2021, 268, 115856.	3.7	52
43	Trends of multiple air pollutants emissions from residential coal combustion in Beijing and its implication on improving air quality for control measures. <i>Atmospheric Environment</i> , 2016, 142, 303-312.	1.9	51
44	Temporal and spatial distribution of atmospheric antimony emission inventories from coal combustion in China. <i>Environmental Pollution</i> , 2011, 159, 1613-1619.	3.7	46
45	Current status and future trends of SO ₂ and NO _x pollution during the 12th FYP period in Guiyang city of China. <i>Atmospheric Environment</i> , 2013, 69, 273-280.	1.9	45
46	An elaborate high resolution emission inventory of primary air pollutants for the Central Plain Urban Agglomeration of China. <i>Atmospheric Environment</i> , 2014, 86, 93-101.	1.9	42
47	Control strategies of atmospheric mercury emissions from coal-fired power plants in China. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 576-586.	0.9	41
48	Atmospheric Vanadium Emission Inventory from Both Anthropogenic and Natural Sources in China. <i>Environmental Science & Technology</i> , 2021, 55, 11568-11578.	4.6	37
49	Source apportionment of Pb-containing particles in Beijing during January 2013. <i>Environmental Pollution</i> , 2017, 226, 30-40.	3.7	36
50	Atmospheric emission inventory of multiple pollutants from civil aviation in China: Temporal trend, spatial distribution characteristics and emission features analysis. <i>Science of the Total Environment</i> , 2019, 648, 871-879.	3.9	36
51	Assessment of heavy metals released into the air from the cement kilns co-burning waste: Case of Oujda cement manufacturing (Northeast Morocco). <i>Sustainable Environment Research</i> , 2018, 28, 363-373.	2.1	33
52	Migration and Emission Characteristics of Ammonia/Ammonium through Flue Gas Cleaning Devices in Coal-Fired Power Plants of China. <i>Environmental Science & Technology</i> , 2020, 54, 390-399.	4.6	33
53	Chemical characteristics of PM ₁₀ during the summer in the mega-city Guangzhou, China. <i>Atmospheric Research</i> , 2014, 137, 25-34.	1.8	32
54	Fine particulate matter pollution in North China: Seasonal-spatial variations, source apportionment, sector and regional transport contributions. <i>Environmental Research</i> , 2020, 184, 109368.	3.7	32

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55	A comprehensive emission inventory of hazardous air pollutants from municipal solid waste incineration in China. <i>Science of the Total Environment</i> , 2022, 826, 154212.	3.9	32
56	Recent Trends of Energy Consumption and Air Pollution in China. <i>Journal of Energy Engineering - ASCE</i> , 2007, 133, 4-12.	1.0	27
57	Characteristics of Aerosol Optical Properties and Their Chemical Apportionments during CAREBeijing 2006. <i>Aerosol and Air Quality Research</i> , 2014, 14, 1431-1442.	0.9	27
58	Application of Random Amplified Polymorphic DNA Analysis for Detection of <i>Salmonella</i> spp. in Foods. <i>Journal of Food Protection</i> , 1998, 61, 785-791.	0.8	24
59	Effectiveness of temporary control measures for lowering PM 2.5 pollution in Beijing and the implications. <i>Atmospheric Environment</i> , 2017, 157, 75-83.	1.9	24
60	Spatial-temporal variation characteristics of air pollution and apportionment of contributions by different sources in Shanxi province of China. <i>Atmospheric Environment</i> , 2021, 244, 117926.	1.9	24
61	Refined assessment of size-fractioned particulate matter (PM _{2.5} /PM ₁₀ /PM _{total}) emissions from coal-fired power plants in China. <i>Science of the Total Environment</i> , 2020, 706, 135735.	3.9	23
62	Seasonal variations in the mass characteristics and optical properties of carbonaceous constituents of PM _{2.5} in six cities of North China. <i>Environmental Pollution</i> , 2021, 268, 115780.	3.7	23
63	Present and future emissions of HAPs from crematories in China. <i>Atmospheric Environment</i> , 2016, 124, 28-36.	1.9	21
64	Variation characteristics of final size-segregated PM emissions from ultralow emission coal-fired power plants in China. <i>Environmental Pollution</i> , 2020, 259, 113886.	3.7	20
65	Spatiotemporal Variations of Ambient Concentrations of Trace Elements in a Highly Polluted Region of China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4186-4202.	1.2	19
66	Highly Resolved Inventory of Mercury Release to Water from Anthropogenic Sources in China. <i>Environmental Science & Technology</i> , 2021, 55, 13860-13868.	4.6	19
67	Future trends of global atmospheric antimony emissions from anthropogenic activities until 2050. <i>Atmospheric Environment</i> , 2015, 120, 385-392.	1.9	18
68	A quantitative assessment of atmospheric emissions and spatial distribution of trace elements from natural sources in China. <i>Environmental Pollution</i> , 2020, 259, 113918.	3.7	17
69	Fine particulate matter (PM _{2.5} /PM _{1.0}) in Beijing, China: Variations and chemical compositions as well as sources. <i>Journal of Environmental Sciences</i> , 2022, 121, 187-198.	3.2	17
70	Emission characteristics of harmful air pollutants from cremators in Beijing, China. <i>PLoS ONE</i> , 2018, 13, e0194226.	1.1	16
71	Analysis of Reduction Potential of Primary Air Pollutant Emissions from Coking Industry in China. <i>Aerosol and Air Quality Research</i> , 2018, 18, 533-541.	0.9	16
72	An interlaboratory comparison of aerosol inorganic ion measurements by ion chromatography: implications for aerosol pH estimate. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6325-6341.	1.2	16

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73	Historical and future emission of hazardous air pollutants (HAPs) from gas-fired combustion in Beijing, China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16946-16957.	2.7	14
74	Multi-dimension apportionment of clean air “parade blue”-phenomenon in Beijing. <i>Journal of Environmental Sciences</i> , 2018, 65, 29-42.	3.2	14
75	Quantitative Assessment of Variability and Uncertainty of Hazardous Trace Element (Cd, Cr, and Pb) Contents in Chinese Coals by Using Bootstrap Simulation. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 755-763.	0.9	13
76	Reduction of Global Life Expectancy Driven by Trade-Related Transboundary Air Pollution. <i>Environmental Science and Technology Letters</i> , 2022, 9, 212-218.	3.9	13
77	Meteorology-normalized variations of air quality during the COVID-19 lockdown in three Chinese megacities. <i>Atmospheric Pollution Research</i> , 2022, 13, 101452.	1.8	12
78	Atmospheric emission inventory of hazardous air pollutants from biomass direct-fired power plants in China: Historical trends, spatial variation characteristics, and future perspectives. <i>Science of the Total Environment</i> , 2021, 767, 144636.	3.9	10
79	Emission Characteristics and Control Prospects of Primary PM _{2.5} from Fossil Fuel Power Plants in China. <i>Aerosol and Air Quality Research</i> , 2016, 16, 3290-3301.	0.9	10
80	Health impacts and spatiotemporal variations of fine particulate and its typical toxic constituents in five urban agglomerations of China. <i>Science of the Total Environment</i> , 2022, 806, 151459.	3.9	9
81	Field measurements on emission characteristics, chemical profiles, and emission factors of size-segregated PM from cement plants in China. <i>Science of the Total Environment</i> , 2022, 818, 151822.	3.9	9
82	Formation and causes of NO _x pollution on the east side of the Taihang Mountains in China. <i>Science Bulletin</i> , 2011, 56, 2044-2049.	1.7	8
83	Spatio-Temporal Variations of Multiple Primary Air Pollutants Emissions in Beijing of China, 2006–2015. <i>Atmosphere</i> , 2019, 10, 494.	1.0	8
84	Exploring the Emission Characteristics and Reduction Potential of Air Pollutants From Chinese Aluminum Industry: 2005–2025. <i>Earth's Future</i> , 2020, 8, e2019EF001440.	2.4	6
85	Analysis of China’s Iron Trade Flow: Quantity, Value and Regional Pattern. <i>Sustainability</i> , 2020, 12, 10427.	1.6	5
86	Significant but Spatiotemporal-Heterogeneous Health Risks Caused by Airborne Exposure to Multiple Toxic Trace Elements in China. <i>Environmental Science & Technology</i> , 2021, 55, 12818-12830.	4.6	5
87	Seasonal Variations in the Characteristics of Microbial Community Structure and Diversity in Atmospheric Particulate Matter from Clean Days and Smoggy Days in Beijing. <i>Microbial Ecology</i> , 2022, 83, 568-582.	1.4	4
88	Current Situation and Abatement Potential of SO ₂ Emissions from Coke Making Industry in China. <i>Advanced Materials Research</i> , 2012, 433-440, 1146-1152.	0.3	0