

Hezhong Tian

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

6,808
citations

57719

44
h-index

62565

80
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96
all docs

96
docs citations

96
times ranked

5632
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Atmospheric Vanadium Emission Inventory from Both Anthropogenic and Natural Sources in China. <i>Environmental Science & Technology</i> , 2021, 55, 11568-11578.	4.6	37
14	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
15	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
16	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
17	Global anthropogenic atmospheric emission inventory of twelve typical hazardous trace elements, 1995–2012. <i>Atmospheric Environment</i> , 2020, 220, 117061.	1.9	52
18	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

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19	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
20	Exploring the Emission Characteristics and Reduction Potential of Air Pollutants From Chinese Aluminum Industry: 2005â€“2025. <i>Earth's Future</i> , 2020, 8, e2019EF001440.	2.4	6
21	Analysis of Chinaâ€™s Iron Trade Flow: Quantity, Value and Regional Pattern. <i>Sustainability</i> , 2020, 12, 10427.	1.6	5
22	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
23	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
24	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
25	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
26	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
27	Spatio-Temporal Variations of Multiple Primary Air Pollutants Emissions in Beijing of China, 2006â€“2015. <i>Atmosphere</i> , 2019, 10, 494.	1.0	8
28	Measure-Specific Effectiveness of Air Pollution Control on Chinaâ€™s Atmospheric Mercury Concentration and Deposition during 2013â€“2017. <i>Environmental Science & Technology</i> , 2019, 53, 8938-8946.	4.6	95
29	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
30	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
31	Seasonal variation, formation mechanisms and potential sources of PM2.5 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
32	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
33	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
34	A Highly Resolved Mercury Emission Inventory of Chinese Coal-Fired Power Plants. <i>Environmental Science & Technology</i> , 2018, 52, 2400-2408.	4.6	152
35	Multi-dimension apportionment of clean air â€œparade blueâ€œ-phenomenon in Beijing. <i>Journal of Environmental Sciences</i> , 2018, 65, 29-42.	3.2	14
36	Temporal-spatial characteristics and source apportionment of PM2.5 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

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37	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
38	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
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	Characterizing remarkable changes of severe haze events and chemical compositions in multi-size airborne particles (PM1, PM2.5 and PM10) from January 2013 to 2016â€“2017 winter in Beijing, China. <i>Atmospheric Environment</i> , 2018, 189, 133-144.	1.9	128
41	Emission characteristics of harmful air pollutants from cremators in Beijing, China. <i>PLoS ONE</i> , 2018, 13, e0194226.	1.1	16
42	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
43	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
44	Source apportionment of Pb-containing particles in Beijing during January 2013. <i>Environmental Pollution</i> , 2017, 226, 30-40.	3.7	36
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	Composition and sources of PM2.5 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
53	Present and future emissions of HAPs from crematories in China. <i>Atmospheric Environment</i> , 2016, 124, 28-36.	1.9	21
54	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

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55	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
56	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
57	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
58	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
59	Future trends of global atmospheric antimony emissions from anthropogenic activities until 2050. <i>Atmospheric Environment</i> , 2015, 120, 385-392.	1.9	18
60	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
61	Atmospheric emission inventory of cadmium from anthropogenic sources. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 605-616.	1.8	76
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	Formation and evolution mechanism of regional haze: a case study in the megacity Beijing, China. Atmospheric Chemistry and Physics, 2013, 13, 4501-4514.	1.9	391
74	Current Situation and Abatement Potential of SO ₂ Emissions from Coke Making Industry in China. Advanced Materials Research, 2012, 433-440, 1146-1152.	0.3	0
75	Anthropogenic Atmospheric Emissions of Antimony and Its Spatial Distribution Characteristics in China. Environmental Science & Technology, 2012, 46, 3973-3980.	4.6	74
76	Temporal Trends and Spatial Variation Characteristics of Hazardous Air Pollutant Emission Inventory from Municipal Solid Waste Incineration in China. Environmental Science & Technology, 2012, 46, 10364-10371.	4.6	155
77	Control strategies of atmospheric mercury emissions from coal-fired power plants in China. Journal of the Air and Waste Management Association, 2012, 62, 576-586.	0.9	41
78	Temporal and spatial variation characteristics of atmospheric emissions of Cd, Cr, and Pb from coal in China. Atmospheric Environment, 2012, 50, 157-163.	1.9	206
79	Anthropogenic atmospheric nickel emissions and its distribution characteristics in China. Science of the Total Environment, 2012, 417-418, 148-157.	3.9	102
80	Atmospheric emissions estimation of Hg, As, and Se from coal-fired power plants in China, 2007. Science of the Total Environment, 2011, 409, 3078-3081.	3.9	151
81	Temporal and spatial distribution of atmospheric antimony emission inventories from coal combustion in China. Environmental Pollution, 2011, 159, 1613-1619.	3.7	46
82	Formation and causes of NO _x pollution on the east side of the Taihang Mountains in China. Science Bulletin, 2011, 56, 2044-2049.	1.7	8
83	Quantitative Assessment of Variability and Uncertainty of Hazardous Trace Element (Cd, Cr, and Pb) Contents in Chinese Coals by Using Bootstrap Simulation. Journal of the Air and Waste Management Association, 2011, 61, 755-763.	0.9	13
84	Trend and characteristics of atmospheric emissions of Hg, As, and Se from coal combustion in China, 1980-2007. Atmospheric Chemistry and Physics, 2010, 10, 11905-11919.	1.9	252
85	Recent Trends of Energy Consumption and Air Pollution in China. Journal of Energy Engineering - ASCE, 2007, 133, 4-12.	1.0	27
86	Anthropogenic mercury emissions in China. Atmospheric Environment, 2005, 39, 7789-7806.	1.9	599
87	Emission Inventories of NO _x from Commercial Energy Consumption in China, 1995-1998. Environmental Science & Technology, 2002, 36, 552-560.	4.6	153
88	Application of Random Amplified Polymorphic DNA Analysis for Detection of Salmonella spp. in Foods. Journal of Food Protection, 1998, 61, 785-791.	0.8	24