Lili Wang

List of Publications by Year
in descending order

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116	6,242	53794	74163
papers	citations	45 h-index	75 g-index

124	124	124	4874
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The dynamic multi-box algorithm of atmospheric environmental capacity. Science of the Total Environment, 2022, 806, 150951.	8.0	8
2	Vertical evolution of black and brown carbon during pollution events over North China Plain. Science of the Total Environment, 2022, 806, 150950.	8.0	6
3	Characterization of dust activation and their prevailing transport over East Asia based on multi-satellite observations. Atmospheric Research, 2022, 265, 105886.	4.1	12
4	Overview of the performance of satellite fire products in China: Uncertainties and challenges. Atmospheric Environment, 2022, 268, 118838.	4.1	12
5	Air stagnation in China: Spatiotemporal variability and differing impact on PM2.5 and O3 during 2013â€“2018. Science of the Total Environment, 2022, 819, 152778.	8.0	17
6	Sources of ambient non-methane hydrocarbon compounds and their impacts on O3 formation during autumn, Beijing. Journal of Environmental Sciences, 2022, 114, 85-97.	6.1	10
7	Mass and number concentration distribution of marine aerosol in the Western Pacific and the influence of continental transport. Environmental Pollution, 2022, 298, 118827.	7.5	4
8	The impact of the aerosol reduction on the worsening ozone pollution over the Beijing-Tianjin-Hebei region via influencing photolysis rates. Science of the Total Environment, 2022, 821, 153197.	8.0	12
9	Air quality assessment and Gray model prediction for the 2022 Winter Olympics in Zhangjiakou, China. Air Quality, Atmosphere and Health, 2022, 15, 1303-1315.	3.3	2
10	Effect of Different Combustion Processes on Atmospheric Nitrous Acid Formation Mechanisms: A Winter Comparative Observation in Urban, Suburban and Rural Areas of the North China Plain. Environmental Science & Technology, 2022, 56, 4828-4837.	10.0	6
11	Light absorption properties of black and brown carbon in winter over the North China Plain: Impacts of regional biomass burning. Atmospheric Environment, 2022, 278, 119100.	4.1	9
12	The environmental benefit of Beijing-Tianjin-Hebei coal banning area for North China. Journal of Environmental Management, 2022, 311, 114870.	7.8	4
13	Significant reduction in atmospheric organic and elemental carbon in PM2.5 in 2+26 cities in northern China. Environmental Research, 2022, 211, 113055.	7.5	14
14	Variation characteristics of air combined pollution in Beijing City. Atmospheric Research, 2022, 274, 106197.	4.1	13
15	The Levels and Sources of Nitrous Acid (HONO) in Winter of Beijing and Sanmenxia. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	9
16	Chemical composition, water content and size distribution of aerosols during different development stages of regional haze episodes over the North China Plain. Atmospheric Environment, 2021, 245, 118020.	4.1	19
17	The thermodynamic structures of the planetary boundary layer dominated by synoptic circulations and the regular effect on air pollution in Beijing. Atmospheric Chemistry and Physics, 2021, 21, 6111-6128.	4.9	10
18	Application Potential of Satellite Thermal Anomaly Products in Updating Industrial Emission Inventory of China. Geophysical Research Letters, 2021, 48, e2021GL092997.	4.0	5

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19	Uncertainties of Simulated Aerosol Direct Radiative Effect Induced by Aerosol Chemical Components: A Measurementâ€Based Perspective From Urbanâ€Forest Transition Region in East China. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033688.	3.3	6
20	Exploring the inorganic and organic nitrate aerosol formation regimes at a suburban site on the North China Plain. Science of the Total Environment, 2021, 768, 144538.	8.0	26
21	Tracking prevailing dust aerosol over the air pollution in central China with integrated satellite and ground observations. Atmospheric Environment, 2021, 253, 118369.	4.1	18
22	Significant contribution of spring northwest transport to volatile organic compounds in Beijing. Journal of Environmental Sciences, 2021, 104, 169-181.	6.1	20
23	An unusual high ozone event over the North and Northeast China during the record-breaking summer in 2018. Journal of Environmental Sciences, 2021, 104, 264-276.	6.1	6
24	Effects of different stagnant meteorological conditions on aerosol chemistry and regional transport changes in Beijing, China. Atmospheric Environment, 2021, 258, 118483.	4.1	4
25	Rapid mass growth and enhanced light extinction of atmospheric aerosols during the heating season haze episodes in Beijing revealed by aerosolâ€“chemistryâ€“radiationâ€“boundary layer interaction. Atmospheric Chemistry and Physics, 2021, 21, 12173-12187.	4.9	10
26	Contrasting effects of emission control on air pollution in Central China during the 2019 Military World Games based on satellite and ground observations. Atmospheric Research, 2021, 259, 105657.	4.1	4
27	The spatial-temporal distribution characteristics of atmospheric chloromethane according to data from the CARE-China network. Atmospheric Environment, 2021, 260, 118484.	4.1	7
28	Exploring the variation of black and brown carbon during COVID-19 lockdown in megacity Wuhan and its surrounding cities, China. Science of the Total Environment, 2021, 791, 148226.	8.0	9
29	Composition and sources of brown carbon aerosols in megacity Beijing during the winter of 2016. Atmospheric Research, 2021, 262, 105773.	4.1	19
30	Comparative observation of atmospheric nitrous acid (HONO) in Xi'an and Xianyang located in the GuanZhong basin of western China. Environmental Pollution, 2021, 289, 117679.	7.5	4
31	Rapid formation of intense haze episodes via aerosolâ€“boundary layer feedback in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 45-53.	4.9	36
32	A critical view of long-term AVHRR aerosol data record in China: Retrieval frequency and heavy pollution. Atmospheric Environment, 2020, 223, 117246.	4.1	8
33	Emission characteristics of size distribution, chemical composition and light absorption of particles from field-scale crop residue burning in Northeast China. Science of the Total Environment, 2020, 710, 136304.	8.0	26
34	Exploring the regional pollution characteristics and meteorological formation mechanism of PM2.5 in North China during 2013â€“2017. Environment International, 2020, 134, 105283.	10.0	73
35	Highly time-resolved chemical characterization and implications of regional transport for submicron aerosols in the North China Plain. Science of the Total Environment, 2020, 705, 135803.	8.0	18
36	Different HONO Sources for Three Layers at the Urban Area of Beijing. Environmental Science & Technology, 2020, 54, 12870-12880.	10.0	52

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37	Spatial and temporal variability of open biomass burning in Northeast China from 2003 to 2017. Atmospheric and Oceanic Science Letters, 2020, 13, 240-247.	1.3	18
38	Haze pollution under a high atmospheric oxidization capacity in summer in Beijing: insights into formation mechanism of atmospheric physicochemical processes. Atmospheric Chemistry and Physics, 2020, 20, 4575-4592.	4.9	31
39	Pollution characteristics and potential sources of nitrous acid (HONO) in early autumn 2018 of Beijing. Science of the Total Environment, 2020, 735, 139317.	8.0	27
40	A new approach of the normalization relationship between PM2.5 and visibility and the theoretical threshold, a case in north China. Atmospheric Research, 2020, 245, 105054.	4.1	13
41	Contrasting trends of PM2.5 and surface-ozone concentrations in China from 2013 to 2017. National Science Review, 2020, 7, 1331-1339.	9.5	284
42	Long-term variation in CO2 emissions with implications for the interannual trend in PM2.5 over the last decade in Beijing, China. Environmental Pollution, 2020, 266, 115014.	7.5	9
43	Different roles of nitrate and sulfate in air pollution episodes in the North China Plain. Atmospheric Environment, 2020, 224, 117325.	4.1	20
44	Meteorological mechanism for a large-scale persistent severe ozone pollution event over eastern China in 2017. Journal of Environmental Sciences, 2020, 92, 187-199.	6.1	63
45	Long-Term (2005â€“2017) View of Atmospheric Pollutants in Central China Using Multiple Satellite Observations. Remote Sensing, 2020, 12, 1041.	4.0	25
46	Effect of the â€œcoal to gasâ€•project on atmospheric NOX during the heating period at a suburban site between Beijing and Tianjin. Atmospheric Research, 2020, 241, 104977.	4.1	46
47	Real-time physiochemistry of urban aerosols during a regional haze episode by a single-particle aerosol mass spectrometer: Mixing state, size distribution and source apportionment. Atmospheric Pollution Research, 2020, 11, 1329-1338.	3.8	5
48	Trends in eastern China agricultural fire emissions derived from a combination of geostationary (Himawari) and polar (VIIRS) orbiter fire radiative power products. Atmospheric Chemistry and Physics, 2020, 20, 10687-10705.	4.9	26
49	What have we missed when studying the impact of aerosols on surface ozone via changing photolysis rates?. Atmospheric Chemistry and Physics, 2020, 20, 10831-10844.	4.9	38
50	Nitrate-dominated PM_{2.5} and elevation of particle pH observed in urban Beijing during the winter of 2017. Atmospheric Chemistry and Physics, 2020, 20, 5019-5033.	4.9	70
51	Potential source regions of air pollutants at a regional background station in Northern China. Environmental Technology (United Kingdom), 2019, 40, 3412-3421.	2.2	8
52	Impact of air pollution control measures and regional transport on carbonaceous aerosols in fine particulate matter in urban Beijing, China: insights gained from long-term measurement. Atmospheric Chemistry and Physics, 2019, 19, 8569-8590.	4.9	81
53	Trends in particulate matter and its chemical compositions in China from 2013â€“2017. Science China Earth Sciences, 2019, 62, 1857-1871.	5.2	111
54	Performance of MODIS high-resolution MAIAC aerosol algorithm in China: Characterization and limitation. Atmospheric Environment, 2019, 213, 159-169.	4.1	70

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55	Increased inorganic aerosol fraction contributes to air pollution and haze in China. Atmospheric Chemistry and Physics, 2019, 19, 5881-5888.	4.9	37
56	Evolution of boundary layer ozone in Shijiazhuang, a suburban site on the North China Plain. Journal of Environmental Sciences, 2019, 83, 152-160.	6.1	50
57	Case study of the effects of aerosol chemical composition and hygroscopicity on the scattering coefficient in summer, Xianghe, southeast of Beijing, China. Atmospheric Research, 2019, 225, 81-87.	4.1	10
58	The carbonaceous aerosol levels still remain a challenge in the Beijing-Tianjin-Hebei region of China: Insights from continuous high temporal resolution measurements in multiple cities. Environment International, 2019, 126, 171-183.	10.0	73
59	Secondary organic aerosols in Jinan, an urban site in North China: Significant anthropogenic contributions to heavy pollution. Journal of Environmental Sciences, 2019, 80, 107-115.	6.1	15
60	Quantifying the impact of synoptic circulation patterns on ozone variability in northern China from April to October 2013â€“2017. Atmospheric Chemistry and Physics, 2019, 19, 14477-14492.	4.9	61
61	Atmospheric levels, variations, sources and health risk of PM2.5-bound polycyclic aromatic hydrocarbons during winter over the North China Plain. Science of the Total Environment, 2019, 655, 581-590.	8.0	50
62	Influence of anthropogenic emission inventories on simulations of air quality in China during winter and summer 2010. Atmospheric Environment, 2019, 198, 236-256.	4.1	24
63	Characterization and source identification of fine particulate matter in urban Beijing during the 2015 Spring Festival. Science of the Total Environment, 2018, 628-629, 430-440.	8.0	62
64	Two-year continuous measurements of carbonaceous aerosols in urban Beijing, China: Temporal variations, characteristics and source analyses. Chemosphere, 2018, 200, 191-200.	8.2	48
65	Vertical characteristics of VOCs in the lower troposphere over the North China Plain during pollution periods. Environmental Pollution, 2018, 236, 907-915.	7.5	43
66	Mixing layer height on the North China Plain and meteorological evidence of serious air pollution in southern Hebei. Atmospheric Chemistry and Physics, 2018, 18, 4897-4910.	4.9	78
67	Characteristics of fine particulate matter and its sources in an industrialized coastal city, Ningbo, Yangtze River Delta, China. Atmospheric Research, 2018, 203, 105-117.	4.1	77
68	Thermal internal boundary layer and its effects on air pollutants during summer in a coastal city in North China. Journal of Environmental Sciences, 2018, 70, 37-44.	6.1	29
69	Water-soluble ions in PM2.5 during spring haze and dust periods in Chengdu, China: Variations, nitrate formation and potential source areas. Environmental Pollution, 2018, 243, 1740-1749.	7.5	49
70	Typical polar organic aerosol tracers in PM2.5 over the North China Plain: Spatial distribution, seasonal variations, contribution and sources. Chemosphere, 2018, 209, 758-766.	8.2	20
71	PM2.5 Characteristics and Regional Transport Contribution in Five Cities in Southern North China Plain, During 2013â€“2015. Atmosphere, 2018, 9, 157.	2.3	20
72	Characteristics of PM_{2.5} mass concentrations and chemical species in urban and background areas of China: emerging results from the CARE-China network. Atmospheric Chemistry and Physics, 2018, 18, 8849-8871.	4.9	144

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73	Characterization of black carbon in an urban-rural fringe area of Beijing. Environmental Pollution, 2017, 223, 524-534.	7.5	54
74	Modelling study of boundary-layer ozone over northern China - Part II: Responses to emission reductions during the Beijing Olympics. Atmospheric Research, 2017, 193, 83-93.	4.1	14
75	The impact of relative humidity on the size distribution and chemical processes of major water-soluble inorganic ions in the megacity of Chongqing, China. Atmospheric Research, 2017, 192, 19-29.	4.1	15
76	Modelling study of boundary-layer ozone over northern China - Part I: Ozone budget in summer. Atmospheric Research, 2017, 187, 128-137.	4.1	76
77	Chemical Composition During Severe Haze Events in Northern China. , 2017, , 245-264.		0
78	Predicting Air Pollution in East Asia. , 2017, , 387-403.		1
79	Distinguishing the roles of meteorology, emission control measures, regional transport, and co-benefits of reduced aerosol feedbacks in â€œAPEC Blueâ€• Atmospheric Environment, 2017, 167, 476-486.	4.1	40
80	Quantification of the impact of aerosol on broadband solar radiation in North China. Scientific Reports, 2017, 7, 44851.	3.3	45
81	Molecular composition of organic aerosol over an agricultural site in North China Plain: Contribution of biogenic sources to PM2.5. Atmospheric Environment, 2017, 164, 448-457.	4.1	14
82	Validation of MODIS C6 AOD products retrieved by the Dark Target method in the Beijingâ€“Tianjinâ€“Hebei urban agglomeration, China. Advances in Atmospheric Sciences, 2017, 34, 993-1002.	4.3	15
83	Chemical characterization and source identification of PM_{2.5} at multiple sites in the Beijingâ€“Tianjinâ€“Hebei region, China. Atmospheric Chemistry and Physics, 2017, 17, 12941-12962.	4.9	178
84	The Variations and Trends of MODIS C5 & C6 Productsâ€™ Errors in the Recent Decade over the Background and Urban Areas of North China. Remote Sensing, 2016, 8, 754.	4.0	21
85	Regional pollution and its formation mechanism over North China Plain: A case study with ceilometer observations and model simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,574.	3.3	69
86	The observationâ€based relationships between PM_{2.5} and AOD over China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,701.	3.3	47
87	Spatial oscillation of the particle pollution in eastern China during winter: Implications for regional air quality and climate. Atmospheric Environment, 2016, 144, 100-110.	4.1	46
88	Tropospheric ozone variability during the East Asian summer monsoon as observed by satellite (IASI), aircraft (MOZAIC) and ground stations. Atmospheric Chemistry and Physics, 2016, 16, 10489-10500.	4.9	42
89	Mixing layer height and its implications for air pollution over Beijing, China. Atmospheric Chemistry and Physics, 2016, 16, 2459-2475.	4.9	335
90	Redefining the importance of nitrate during haze pollution to help optimize an emission control strategy. Atmospheric Environment, 2016, 141, 197-202.	4.1	90

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91	Change in diurnal variations of meteorological variables induced by anthropogenic aerosols over the North China Plain in summer 2008. Theoretical and Applied Climatology, 2016, 124, 103-118.	2.8	9
92	Characteristics of atmospheric organic and elemental carbon aerosols in urban Beijing, China. Atmospheric Environment, 2016, 125, 293-306.	4.1	104
93	The variability of biomass burning and its influence on regional aerosol properties during the wheat harvest season in North China. Atmospheric Research, 2015, 157, 153-163.	4.1	63
94	Long-range transport and regional sources of PM2.5 in Beijing based on long-term observations from 2005 to 2010. Atmospheric Research, 2015, 157, 37-48.	4.1	168
95	The Campaign on Atmospheric Aerosol Research Network of China: CARE-China. Bulletin of the American Meteorological Society, 2015, 96, 1137-1155.	3.3	115
96	Seasonal and diurnal variation in particulate matter (PM10 and PM2.5) at an urban site of Beijing: analyses from a 9-year study. Environmental Science and Pollution Research, 2015, 22, 627-642.	5.3	180
97	The Influence of Climate Factors, Meteorological Conditions, and Boundary-Layer Structure on Severe Haze Pollution in the Beijing-Tianjin-Hebei Region during January 2013. Advances in Meteorology, 2014, 2014, 1-14.	1.6	91
98	The heaviest particulate air-pollution episodes occurred in northern China in January, 2013: Insights gained from observation. Atmospheric Environment, 2014, 92, 546-556.	4.1	212
99	Mechanism for the formation of the January 2013 heavy haze pollution episode over central and eastern China. Science China Earth Sciences, 2014, 57, 14-25.	5.2	626
100	The aerosol direct radiative forcing over the Beijing metropolitan area from 2004 to 2011. Journal of Aerosol Science, 2014, 69, 62-70.	3.8	18
101	The empirical relationship between the PM2.5 concentration and aerosol optical depth over the background of North China from 2009 to 2011. Atmospheric Research, 2014, 138, 179-188.	4.1	97
102	The acute effects of fine particles on respiratory mortality and morbidity in Beijing, 2004â€“2009. Environmental Science and Pollution Research, 2013, 20, 6433-6444.	5.3	120
103	Characterization of the size-segregated water-soluble inorganic ions in the Jing-Jin-Ji urban agglomeration: Spatial/temporal variability, size distribution and sources. Atmospheric Environment, 2013, 77, 250-259.	4.1	106
104	Reductions of PM2.5 in Beijing-Tianjin-Hebei urban agglomerations during the 2008 Olympic Games. Advances in Atmospheric Sciences, 2012, 29, 1330-1342.	4.3	48
105	Using synoptic classification and trajectory analysis to assess air quality during the winter heating period in ÃœrÃ¼mqi, China. Advances in Atmospheric Sciences, 2012, 29, 307-319.	4.3	5
106	Analysis of heavy pollution episodes in selected cities of northern China. Atmospheric Environment, 2012, 50, 338-348.	4.1	152
107	Chemical composition and size distribution of airborne particulate matters in Beijing during the 2008 Olympics. Atmospheric Environment, 2012, 50, 278-286.	4.1	78
108	Seasonal variations in aerosol optical properties over China. Journal of Geophysical Research, 2011, 116, .	3.3	87

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109	In situ measurements of SO2, NOx, NOy, and O3 in Beijing, China during August 2008. Science of the Total Environment, 2011, 409, 933-940.	8.0	65
110	Trends in aerosol optical properties over the Bohai Rim in Northeast China from 2004 to 2010. Atmospheric Environment, 2011, 45, 6317-6325.	4.1	56
111	Model analysis of aerosol optical depth distributions over East Asia. Science China Earth Sciences, 2010, 53, 1079-1090.	5.2	15
112	Variability and reduction of atmospheric pollutants in Beijing and its surrounding area during the Beijing 2008 Olympic Games. Science Bulletin, 2010, 55, 1937-1944.	1.7	70
113	Assessment and comparison of three years of Terra and Aqua MODIS Aerosol Optical Depth Retrieval (C005) in Chinese terrestrial regions. Atmospheric Research, 2010, 97, 229-240.	4.1	46
114	Aerosol optical depth (AOD) and Ã…ngstrÃ¶m exponent of aerosols observed by the Chinese Sun Hazemeter Network from August 2004 to September 2005. Journal of Geophysical Research, 2007, 112, .	3.3	166
115	Evaluation of the MODIS aerosol optical depth retrieval over different ecosystems in China during EAST-AIRE. Atmospheric Environment, 2007, 41, 7138-7149.	4.1	52
116	Validation of MODIS aerosol products by CSHNET over China. Science Bulletin, 2007, 52, 1708-1718.	1.7	30