

Xinfeng Wang

List of Publications by Year in descending order

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109
papers

5,909
citations

61687

45
h-index

97045

71
g-index

158
all docs

158
docs citations

158
times ranked

5114
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric Processing of Particulate Imidazole Compounds Driven by Photochemistry. <i>Environmental Science and Technology Letters</i> , 2022, 9, 265-271.	3.9	11
2	Particulate organic nitrates at Mount Tai in winter and spring: Variation characteristics and effects of mountain-valley breezes and elevated emission sources. <i>Environmental Research</i> , 2022, 212, 113182.	3.7	3
3	Chemical composition, sources and optical properties of nitrated aromatic compounds in fine particulate matter during winter foggy days in Nanjing, China. <i>Environmental Research</i> , 2022, 212, 113255.	3.7	4
4	Measurement report: Optical properties and sources of water-soluble brown carbon in Tianjin, North China – insights from organic molecular compositions. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6449-6470.	1.9	25
5	Large contributions of anthropogenic sources to amines in fine particles at a coastal area in northern China in winter. <i>Science of the Total Environment</i> , 2022, 839, 156281.	3.9	13
6	Variation characteristics of atmospheric methane and carbon dioxide in summertime at a coastal site in the South China Sea. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, .	3.3	5
7	Increased new particle yields with largely decreased probability of survival to CCN size at the summit of Mt. Tai under reduced SO ₂ emissions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1305-1323.	1.9	8
8	Source Apportionment of Regional Ozone Pollution Observed at Mount Tai, North China: Application of Lagrangian Photochemical Trajectory Model and Implications for Control Policy. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033519.	1.2	7
9	Significant impacts of anthropogenic activities on monoterpene and oleic acid-derived particulate organic nitrates in the North China Plain. <i>Atmospheric Research</i> , 2021, 256, 105585.	1.8	7
10	Substantial emissions of nitrated aromatic compounds in the particle and gas phases in the waste gases from eight industries. <i>Environmental Pollution</i> , 2021, 283, 117132.	3.7	13
11	An unexpected large continental source of reactive bromine and chlorine with significant impact on wintertime air quality. <i>National Science Review</i> , 2021, 8, nwaa304.	4.6	42
12	Winter ClONO ₂ formation in the region of fresh anthropogenic emissions: seasonal variability and insights into daytime peaks in northern China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15985-16000.	1.9	8
13	Joint impact of atmospheric SO ₂ and NH ₃ on the formation of nanoparticles from photo-oxidation of a typical biomass burning compound. <i>Environmental Science: Nano</i> , 2020, 7, 2532-2545.	2.2	14
14	Aqueous-Phase Photooxidation of Vanillic Acid: A Potential Source of Humic-Like Substances (HULIS). <i>ACS Earth and Space Chemistry</i> , 2020, 4, 862-872.	1.2	28
15	Ship emission of nitrous acid (HONO) and its impacts on the marine atmospheric oxidation chemistry. <i>Science of the Total Environment</i> , 2020, 735, 139355.	3.9	21
16	Heterogeneous N ₂ O ₅ reactions on atmospheric aerosols at four Chinese sites: improving model representation of uptake parameters. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4367-4378.	1.9	33
17	Atmospheric nitrous acid (HONO) at a rural coastal site in North China: Seasonal variations and effects of biomass burning. <i>Atmospheric Environment</i> , 2020, 229, 117429.	1.9	28
18	Evaluation of the Performance of Low-Cost Air Quality Sensors at a High Mountain Station with Complex Meteorological Conditions. <i>Atmosphere</i> , 2020, 11, 212.	1.0	12

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19	Size distributions of nitrated phenols in winter at a coastal site in north China and the impacts from primary sources and secondary formation. <i>Chemosphere</i> , 2020, 250, 126256.	4.2	26
20	Nitrated phenols and the phenolic precursors in the atmosphere in urban Jinan, China. <i>Science of the Total Environment</i> , 2020, 714, 136760.	3.9	48
21	Photoinduced Production of Chlorine Molecules from Titanium Dioxide Surfaces Containing Chloride. <i>Environmental Science and Technology Letters</i> , 2020, 7, 70-75.	3.9	12
22	The evolution of cloud and aerosol microphysics at the summit of Mt. Tai, China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13735-13751.	1.9	10
23	Emissions of fine particulate nitrated phenols from various on-road vehicles in China. <i>Environmental Research</i> , 2019, 179, 108709.	3.7	42
24	Fast heterogeneous loss of N ₂ O ₅ leads to significant nighttime NO _x removal and nitrate aerosol formation at a coastal background environment of southern China. <i>Science of the Total Environment</i> , 2019, 677, 637-647.	3.9	38
25	Determination of Semivolatile Organic Nitrates in Ambient Atmosphere by Gas Chromatography/Electron Ionization-Mass Spectrometry. <i>Atmosphere</i> , 2019, 10, 88.	1.0	4
26	Characteristics and sources of halogenated hydrocarbons in the Yellow River Delta region, northern China. <i>Atmospheric Research</i> , 2019, 225, 70-80.	1.8	25
27	Nitrous acid in marine boundary layer over eastern Bohai Sea, China: Characteristics, sources, and implications. <i>Science of the Total Environment</i> , 2019, 670, 282-291.	3.9	36
28	Emissions of fine particulate nitrated phenols from residential coal combustion in China. <i>Atmospheric Environment</i> , 2019, 203, 10-17.	1.9	53
29	Observations of C ₁ -C ₅ alkyl nitrates in the Yellow River Delta, northern China: Effects of biomass burning and oil field emissions. <i>Science of the Total Environment</i> , 2019, 656, 129-139.	3.9	18
30	Ozone from fireworks: Chemical processes or measurement interference?. <i>Science of the Total Environment</i> , 2018, 633, 1007-1011.	3.9	16
31	Summertime C ₁ -C ₅ alkyl nitrates over Beijing, northern China: Spatial distribution, regional transport, and formation mechanisms. <i>Atmospheric Research</i> , 2018, 204, 102-109.	1.8	17
32	Pollution characteristics of particulate matters emitted from outdoor barbecue cooking in urban Jinan in eastern China. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	9
33	Observations and Explicit Modeling of Summertime Carbonyl Formation in Beijing: Identification of Key Precursor Species and Their Impact on Atmospheric Oxidation Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1426-1440.	1.2	66
34	Abundance and origin of fine particulate chloride in continental China. <i>Science of the Total Environment</i> , 2018, 624, 1041-1051.	3.9	58
35	Identification and semi-quantification of biogenic organic nitrates in ambient particulate matters by UHPLC/ESI-MS. <i>Atmospheric Environment</i> , 2018, 176, 140-147.	1.9	12
36	Light absorption of black carbon is doubled at Mt. Tai and typical urban area in North China. <i>Science of the Total Environment</i> , 2018, 635, 1144-1151.	3.9	21

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37	Observations of fine particulate nitrated phenols in four sites in northern China: concentrations, source apportionment, and secondary formation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4349-4359.	1.9	67
38	Characteristics and sources of nitrous acid in an urban atmosphere of northern China: Results from 1-yr continuous observations. <i>Atmospheric Environment</i> , 2018, 182, 296-306.	1.9	82
39	Direct Observations of Fine Primary Particles From Residential Coal Burning: Insights Into Their Morphology, Composition, and Hygroscopicity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,964.	1.2	61
40	A Review on the Methods for Observing the Substance and Energy Exchange between Atmosphere Boundary Layer and Free Troposphere. <i>Atmosphere</i> , 2018, 9, 460.	1.0	5
41	Six sources mainly contributing to the haze episodes and health risk assessment of PM _{2.5} at Beijing suburb in winter 2016. <i>Ecotoxicology and Environmental Safety</i> , 2018, 166, 146-156.	2.9	51
42	Heterogeneous N ₂ O ₅ uptake coefficient and production yield of ClNO ₂ in polluted northern China: roles of aerosol water content and chemical composition. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13155-13171.	1.9	67
43	Summertime fine particulate nitrate pollution in the North China Plain: increasing trends, formation mechanisms and implications for control policy. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11261-11275.	1.9	98
44	Strong ozone production at a rural site in the North China Plain: Mixed effects of urban plumes and biogenic emissions. <i>Journal of Environmental Sciences</i> , 2018, 71, 261-270.	3.2	34
45	Understanding unusually high levels of peroxyacetyl nitrate (PAN) in winter in Urban Jinan, China. <i>Journal of Environmental Sciences</i> , 2018, 71, 249-260.	3.2	38
46	Molecular distributions of dicarboxylic acids, oxocarboxylic acids and α -dicarbonyls in PM _{2.5} collected at the top of Mt. Tai, North China, during the wheat burning season of 2014. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10741-10758.	1.9	27
47	Chemical Composition and Bacterial Community in Size-Resolved Cloud Water at the Summit of Mt. Tai, China. <i>Aerosol and Air Quality Research</i> , 2018, 18, 1-14.	0.9	13
48	Trend in Fine Sulfate Concentrations and the Associated Secondary Formation Processes at an Urban Site in North China. <i>Aerosol and Air Quality Research</i> , 2018, 18, 1519-1530.	0.9	4
49	Aerosol optical properties at urban and coastal sites in Shandong Province, Northern China. <i>Atmospheric Research</i> , 2017, 188, 39-47.	1.8	14
50	Evolution of trace elements in the planetary boundary layer in southern China: Effects of dust storms and aerosol-cloud interactions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3492-3506.	1.2	20
51	Reconciling modeling with observations of radiative absorption of black carbon aerosols. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5932-5942.	1.2	13
52	Peroxyacetyl nitrate measurements by thermal dissociation chemical ionization mass spectrometry in an urban environment: performance and characterizations. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	3.3	3
53	Carbonyl compounds at Mount Tai in the North China Plain: Characteristics, sources, and effects on ozone formation. <i>Atmospheric Research</i> , 2017, 196, 53-61.	1.8	48
54	Observations of N ₂ O ₅ and ClNO ₂ at a polluted urban surface site in North China: High N ₂ O ₅ uptake coefficients and low ClNO ₂ product yields. <i>Atmospheric Environment</i> , 2017, 156, 125-134.	1.9	90

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55	Bacterial characterization in ambient submicron particles during severe haze episodes at Jiâ€™nan, China. <i>Science of the Total Environment</i> , 2017, 580, 188-196.	3.9	89
56	Emissions of fine particulate nitrated phenols from the burning of five common types of biomass. <i>Environmental Pollution</i> , 2017, 230, 405-412.	3.7	73
57	A comparison study of carbonaceous aerosols in a typical North China Plain urban atmosphere: Seasonal variability, sources and implications to haze formation. <i>Atmospheric Environment</i> , 2017, 149, 95-103.	1.9	37
58	Contributions and source identification of biogenic and anthropogenic hydrocarbons to secondary organic aerosols at Mt. Tai in 2014. <i>Environmental Pollution</i> , 2017, 220, 863-872.	3.7	49
59	Chemical composition and droplet size distribution of cloud at the summit of Mount Tai, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9885-9896.	1.9	53
60	Fast heterogeneous N<sub>2>O<sub>5> uptake and ClNO<sub>2> production in power plant and industrial plumes observed in the nocturnal residual layer over the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12361-12378.	1.9	92
61	Direct observations of organic aerosols in common wintertime hazes in North China: insights into direct emissions from Chinese residential stoves. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1259-1270.	1.9	56
62	Mixed Chloride Aerosols and their Atmospheric Implications: A Review. <i>Aerosol and Air Quality Research</i> , 2017, 17, 878-887.	0.9	24
63	Significant concentrations of nitryl chloride sustained in the morning: investigations of the causes and impacts on ozone production in a polluted region of northern China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14959-14977.	1.9	146
64	A conceptual framework for mixing structures in individual aerosol particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,784.	1.2	98
65	Oxidative capacity and radical chemistry in the polluted atmosphere of Hong Kong and Pearl River Delta region: analysis of a severe photochemical smog episode. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9891-9903.	1.9	168
66	Significant increase of summertime ozone at Mount Tai in Central Eastern China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10637-10650.	1.9	192
67	Distribution and sources of air pollutants in the North China Plain based on on-road mobile measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12551-12565.	1.9	22
68	Optical properties of atmospheric fine particles near Beijing during the HOPE-J<sup>3>A campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6421-6439.	1.9	38
69	Identification of concentrations and sources of PM2.5-bound PAHs in North China during haze episodes in 2013. <i>Air Quality, Atmosphere and Health</i> , 2016, 9, 823-833.	1.5	30
70	Characteristics of ambient volatile organic compounds and the influence of biomass burning at a rural site in Northern China during summer 2013. <i>Atmospheric Environment</i> , 2016, 124, 156-165.	1.9	54
71	Characteristics of carbonaceous aerosols: Impact of biomass burning and secondary formation in summertime in a rural area of the North China Plain. <i>Science of the Total Environment</i> , 2016, 557-558, 520-530.	3.9	46
72	Organic acids in cloud water and rainwater at a mountain site in acid rain areas of South China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9529-9539.	2.7	53

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73	Radiative absorption enhancement from coatings on black carbon aerosols. <i>Science of the Total Environment</i> , 2016, 551-552, 51-56.	3.9	86
74	Development of a chlorine chemistry module for the Master Chemical Mechanism. <i>Geoscientific Model Development</i> , 2015, 8, 3151-3162.	1.3	59
75	Enhanced formation of fine particulate nitrate at a rural site on the North China Plain in summer: The important roles of ammonia and ozone. <i>Atmospheric Environment</i> , 2015, 101, 294-302.	1.9	121
76	Levels, indoor-outdoor relationships and exposure risks of airborne particle-associated perchlorate and chlorate in two urban areas in Eastern Asia. <i>Chemosphere</i> , 2015, 135, 31-37.	4.2	19
77	HONO and its potential source particulate nitrite at an urban site in North China during the cold season. <i>Science of the Total Environment</i> , 2015, 538, 93-101.	3.9	59
78	Large daytime signals of N_2O and NO_3 inferred at 62 amu in a TD-CIMS: chemical interference or a real atmospheric phenomenon?. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1-12.	1.2	53
79	On the use of an explicit chemical mechanism to dissect peroxy acetyl nitrate formation. <i>Environmental Pollution</i> , 2014, 195, 39-47.	3.7	53
80	Fog Formation in Cold Season in Ji'nan, China: Case Analyses with Application of HYSPLIT Model. <i>Advances in Meteorology</i> , 2014, 2014, 1-8.	0.6	5
81	Impacts of firecracker burning on aerosol chemical characteristics and human health risk levels during the Chinese New Year Celebration in Jinan, China. <i>Science of the Total Environment</i> , 2014, 476-477, 57-64.	3.9	68
82	Presence of high nitryl chloride in Asian coastal environment and its impact on atmospheric photochemistry. <i>Science Bulletin</i> , 2014, 59, 356-359.	1.7	54
83	Severe haze episodes and seriously polluted fog water in Ji'nan, China. <i>Science of the Total Environment</i> , 2014, 493, 133-137.	3.9	71
84	Photochemical evolution of organic aerosols observed in urban plumes from Hong Kong and the Pearl River Delta of China. <i>Atmospheric Environment</i> , 2014, 88, 219-229.	1.9	39
85	Composition and hygroscopicity of aerosol particles at Mt. Lu in South China: Implications for acid precipitation. <i>Atmospheric Environment</i> , 2014, 94, 626-636.	1.9	30
86	Polluted dust promotes new particle formation and growth. <i>Scientific Reports</i> , 2014, 4, 6634.	1.6	121
87	Ground-level ozone in four Chinese cities: precursors, regional transport and heterogeneous processes. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13175-13188.	1.9	305
88	Speciation of brown carbon in cloud water impacted by agricultural biomass burning in eastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7389-7399.	1.2	231
89	Size distributions of aerosol sulfates and nitrates in Beijing during the 2008 Olympic Games: Impacts of pollution control measures and regional transport. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 341-353.	1.9	18
90	Size-resolved aerosol ionic composition and secondary formation at Mount Heng in South Central China. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 815-826.	3.3	7

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91	Source identification and health impact of PM _{2.5} in a heavily polluted urban atmosphere in China. <i>Atmospheric Environment</i> , 2013, 75, 265-269.	1.9	121
92	Highly Time-Resolved Measurements of Secondary Ions in PM _{2.5} during the 2008 Beijing Olympics: The Impacts of Control Measures and Regional Transport. <i>Aerosol and Air Quality Research</i> , 2013, 13, 367-376.	0.9	15
93	Asian dust storm observed at a rural mountain site in southern China: chemical evolution and heterogeneous photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11985-11995.	1.9	44
94	Aqueous phase sulfate production in clouds in eastern China. <i>Atmospheric Environment</i> , 2012, 62, 502-511.	1.9	80
95	Formation of secondary organic carbon and long-range transport of carbonaceous aerosols at Mount Heng in South China. <i>Atmospheric Environment</i> , 2012, 63, 203-212.	1.9	58
96	The secondary formation of inorganic aerosols in the droplet mode through heterogeneous aqueous reactions under haze conditions. <i>Atmospheric Environment</i> , 2012, 63, 68-76.	1.9	195
97	Aerosol ionic components at Mt. Heng in central southern China: Abundances, size distribution, and impacts of long-range transport. <i>Science of the Total Environment</i> , 2012, 433, 498-506.	3.9	28
98	Characterization of cloud water chemistry at Mount Tai, China: Seasonal variation, anthropogenic impact, and cloud processing. <i>Atmospheric Environment</i> , 2012, 60, 467-476.	1.9	88
99	Characterization of aerosol acidity at a high mountain site in central eastern China. <i>Atmospheric Environment</i> , 2012, 51, 11-20.	1.9	39
100	Airborne fine particulate pollution in Jinan, China: Concentrations, chemical compositions and influence on visibility impairment. <i>Atmospheric Environment</i> , 2012, 55, 506-514.	1.9	114
101	Evaluating PM _{2.5} ionic components and source apportionment in Jinan, China from 2004 to 2008 using trajectory statistical methods. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1662.	2.1	40
102	Integrated evaluation of aerosols from regional brown hazes over northern China in winter: Concentrations, sources, transformation, and mixing states. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	68
103	Source and variation of carbonaceous aerosols at Mount Tai, North China: Results from a semi-continuous instrument. <i>Atmospheric Environment</i> , 2011, 45, 1655-1667.	1.9	38
104	Semi-continuous measurement of water-soluble ions in PM _{2.5} in Jinan, China: Temporal variations and source apportionments. <i>Atmospheric Environment</i> , 2011, 45, 6048-6056.	1.9	143
105	Aerosol size distributions in urban Jinan: Seasonal characteristics and variations between weekdays and weekends in a heavily polluted atmosphere. <i>Environmental Monitoring and Assessment</i> , 2011, 179, 443-456.	1.3	21
106	Comparison among filter-based, impactor-based and continuous techniques for measuring atmospheric fine sulfate and nitrate. <i>Atmospheric Environment</i> , 2010, 44, 4396-4403.	1.9	74
107	Air quality during the 2008 Beijing Olympics: secondary pollutants and regional impact. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7603-7615.	1.9	344
108	Measurement of gas-phase total peroxides at the summit of Mount Tai in China. <i>Atmospheric Environment</i> , 2009, 43, 1702-1711.	1.9	38

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109	Continuous observations of water-soluble ions in PM _{2.5} at Mount Tai (1534 m a.s.l.) in central-eastern China. <i>Journal of Atmospheric Chemistry</i> , 2009, 64, 107-127.	1.4	71