

Lin Wang

List of Publications by Year in descending order

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116
papers

7,267
citations

61984

43
h-index

62596

80
g-index

158
all docs

158
docs citations

158
times ranked

6595
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleation and Growth of Nanoparticles in the Atmosphere. <i>Chemical Reviews</i> , 2012, 112, 1957-2011.	47.7	938
2	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. <i>Science</i> , 2018, 361, 278-281.	12.6	415
3	Particulate Matter Exposure and Stress Hormone Levels. <i>Circulation</i> , 2017, 136, 618-627.	1.6	364
4	Serial interval of SARS-CoV-2 was shortened over time by nonpharmaceutical interventions. <i>Science</i> , 2020, 369, 1106-1109.	12.6	303
5	Atmospheric nanoparticles formed from heterogeneous reactions of organics. <i>Nature Geoscience</i> , 2010, 3, 238-242.	12.9	269
6	Formation of nanoparticles of blue haze enhanced by anthropogenic pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17650-17654.	7.1	244
7	A laboratory study of agricultural crop residue combustion in China: Emission factors and emission inventory. <i>Atmospheric Environment</i> , 2008, 42, 8432-8441.	4.1	202
8	Particle Size Distribution and Polycyclic Aromatic Hydrocarbons Emissions from Agricultural Crop Residue Burning. <i>Environmental Science & Technology</i> , 2011, 45, 5477-5482.	10.0	202
9	Enhanced Light Absorption and Scattering by Carbon Soot Aerosol Internally Mixed with Sulfuric Acid. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1066-1074.	2.5	200
10	Strong atmospheric new particle formation in winter in urban Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1769-1781.	4.9	147
11	Heterogeneous Chemistry of Alkylamines with Sulfuric Acid: Implications for Atmospheric Formation of Alkylammonium Sulfates. <i>Environmental Science & Technology</i> , 2010, 44, 2461-2465.	10.0	130
12	Measurement of atmospheric amines and ammonia using the high resolution time-of-flight chemical ionization mass spectrometry. <i>Atmospheric Environment</i> , 2015, 102, 249-259.	4.1	130
13	Atmospheric gas-to-particle conversion: why NPF events are observed in megacities?. <i>Faraday Discussions</i> , 2017, 200, 271-288.	3.2	120
14	Heterogeneous Reactions of Alkylamines with Ammonium Sulfate and Ammonium Bisulfate. <i>Environmental Science & Technology</i> , 2011, 45, 4748-4755.	10.0	113
15	New particle formation in China: Current knowledge and further directions. <i>Science of the Total Environment</i> , 2017, 577, 258-266.	8.0	106
16	Effects of dicarboxylic acid coating on the optical properties of soot. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7869.	2.8	99
17	Effects of Coating of Dicarboxylic Acids on the Mass~Mobility Relationship of Soot Particles. <i>Environmental Science & Technology</i> , 2009, 43, 2787-2792.	10.0	98
18	Morphology, composition and mixing state of individual carbonaceous aerosol in urban Shanghai. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 693-707.	4.9	96

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19	Detection of atmospheric gaseous amines and amides by a high-resolution time-of-flight chemical ionization mass spectrometer with protonated ethanol reagent ions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14527-14543.	4.9	95
20	Seasonal and diurnal variations of particulate organosulfates in urban Shanghai, China. <i>Atmospheric Environment</i> , 2014, 85, 152-160.	4.1	91
21	Molecular characterization of atmospheric particulate organosulfates in three megacities at the middle and lower reaches of the Yangtze River. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2285-2298.	4.9	89
22	Airborne submicron particulate (PM1) pollution in Shanghai, China: Chemical variability, formation/dissociation of associated semi-volatile components and the impacts on visibility. <i>Science of the Total Environment</i> , 2014, 473-474, 199-206.	8.0	84
23	Chemical Characteristics of Organic Aerosols in Shanghai: A Study by Ultrahigh-Performance Liquid Chromatography Coupled With Orbitrap Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,703.	3.3	82
24	Dicarbonyl Products of the OH Radical-Initiated Reactions of Naphthalene and the C1- and C2-Alkyl naphthalenes. <i>Environmental Science & Technology</i> , 2007, 41, 2803-2810.	10.0	81
25	Seasonal Characteristics of New Particle Formation and Growth in Urban Beijing. <i>Environmental Science & Technology</i> , 2020, 54, 8547-8557.	10.0	78
26	Formation of 9,10-phenanthrenequinone by atmospheric gas-phase reactions of phenanthrene. <i>Atmospheric Environment</i> , 2007, 41, 2025-2035.	4.1	75
27	Reactions of Chlorine Atoms with a Series of Aromatic Hydrocarbons. <i>Environmental Science & Technology</i> , 2005, 39, 5302-5310.	10.0	74
28	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. <i>Faraday Discussions</i> , 2021, 226, 334-347.	3.2	74
29	Measurements of sub-30 nm particles using a particle size magnifier in different environments: from clean mountain top to polluted megacities. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2163-2187.	4.9	71
30	Sulfuric acid-amine nucleation in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2457-2468.	4.9	70
31	Atmospheric Photosensitization: A New Pathway for Sulfate Formation. <i>Environmental Science & Technology</i> , 2020, 54, 3114-3120.	10.0	65
32	The effects of firework regulation on air quality and public health during the Chinese Spring Festival from 2013 to 2017 in a Chinese megacity. <i>Environment International</i> , 2019, 126, 96-106.	10.0	64
33	The effects of nitrate on the heterogeneous uptake of sulfur dioxide on hematite. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9451-9467.	4.9	61
34	Particle exposure level and potential health risks of domestic Chinese cooking. <i>Building and Environment</i> , 2017, 123, 564-574.	6.9	60
35	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. <i>Nature Communications</i> , 2021, 12, 3159.	12.8	58
36	Single particle analysis of amines in ambient aerosol in Shanghai. <i>Environmental Chemistry</i> , 2012, 9, 202.	1.5	54

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37	Reactions of Atmospheric Particulate Stabilized Criegee Intermediates Lead to High-Molecular-Weight Aerosol Components. <i>Environmental Science & Technology</i> , 2016, 50, 5702-5710.	10.0	54
38	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. <i>Big Earth Data</i> , 2020, 4, 295-321.	4.4	54
39	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New Particle Formation in Beijing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091944.	4.0	53
40	Variation of size-segregated particle number concentrations in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1201-1216.	4.9	52
41	Consecutive transport of anthropogenic air masses and dust storm plume: Two case events at Shanghai, China. <i>Atmospheric Research</i> , 2013, 127, 22-33.	4.1	51
42	Multi-pollutant emissions from the burning of major agricultural residues in China and the related health-economic effects. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4957-4988.	4.9	50
43	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1971-1983.	4.9	46
44	Chemistry-triggered events of PM _{2.5} explosive growth during late autumn and winter in Shanghai, China. <i>Environmental Pollution</i> , 2019, 254, 112864.	7.5	44
45	On secondary new particle formation in China. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	6.0	43
46	Evolution of biomass burning smoke particles in the dark. <i>Atmospheric Environment</i> , 2015, 120, 244-252.	4.1	41
47	Physiochemical properties of carbonaceous aerosol from agricultural residue burning: Density, volatility, and hygroscopicity. <i>Atmospheric Environment</i> , 2016, 140, 94-105.	4.1	41
48	Long-range and regional transported size-resolved atmospheric aerosols during summertime in urban Shanghai. <i>Science of the Total Environment</i> , 2017, 583, 334-343.	8.0	41
49	Rapid modification of cloud nucleating ability of aerosols by biogenic emissions. <i>Geophysical Research Letters</i> , 2013, 40, 6293-6297.	4.0	40
50	Role of stabilized Criegee Intermediate in secondary organic aerosol formation from the ozonolysis of β -cedrene. <i>Atmospheric Environment</i> , 2014, 94, 448-457.	4.1	40
51	Atmospheric Pressure-Ion Drift Chemical Ionization Mass Spectrometry for Detection of Trace Gas Species. <i>Analytical Chemistry</i> , 2010, 82, 7302-7308.	6.5	39
52	Evaluation of the chemical composition of gas- and particle-phase products of aromatic oxidation. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9783-9803.	4.9	39
53	Characteristics of size-resolved atmospheric inorganic and carbonaceous aerosols in urban Shanghai. <i>Atmospheric Environment</i> , 2017, 167, 625-641.	4.1	37
54	High-resolution modeling of gaseous methylamines over a polluted region in China: source-dependent emissions and implications of spatial variations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7933-7950.	4.9	37

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55	Laboratory Investigation on the Role of Organics in Atmospheric Nanoparticle Growth. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8940-8947.	2.5	34
56	Unprecedented Ambient Sulfur Trioxide (SO ₃) Detection: Possible Formation Mechanism and Atmospheric Implications. <i>Environmental Science and Technology Letters</i> , 2020, 7, 809-818.	8.7	34
57	Acid-Base Clusters during Atmospheric New Particle Formation in Urban Beijing. <i>Environmental Science & Technology</i> , 2021, 55, 10994-11005.	10.0	34
58	Atmospheric Sulfuric Acid-Dimethylamine Nucleation Enhanced by Trifluoroacetic Acid. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085627.	4.0	33
59	Trends in heterogeneous aqueous reaction in continuous haze episodes in suburban Shanghai: An in-depth case study. <i>Science of the Total Environment</i> , 2018, 634, 1192-1204.	8.0	32
60	Kinetics and Products of Photolysis and Reaction with OH Radicals of a Series of Aromatic Carbonyl Compounds. <i>Environmental Science & Technology</i> , 2006, 40, 5465-5471.	10.0	30
61	Heterogeneous Uptake of Carbonyl Sulfide on Hematite and Hematite-NaCl Mixtures. <i>Environmental Science & Technology</i> , 2007, 41, 6484-6490.	10.0	30
62	Mixing state and particle hygroscopicity of organic-dominated aerosols over the Pearl River Delta region in China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14079-14094.	4.9	30
63	Assessing the Effect of Reactive Oxygen Species and Volatile Organic Compound Profiles Coming from Certain Types of Chinese Cooking on the Toxicity of Human Bronchial Epithelial Cells. <i>Environmental Science & Technology</i> , 2020, 54, 8868-8877.	10.0	30
64	Carbonyl Sulfide Derived from Catalytic Oxidation of Carbon Disulfide over Atmospheric Particles. <i>Environmental Science & Technology</i> , 2001, 35, 2543-2547.	10.0	29
65	Oxygenated products formed from OH-initiated reactions of trimethylbenzene: autoxidation and accretion. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9563-9579.	4.9	29
66	Responses of gaseous sulfuric acid and particulate sulfate to reduced SO ₂ concentration: A perspective from long-term measurements in Beijing. <i>Science of the Total Environment</i> , 2020, 721, 137700.	8.0	28
67	Aerosol single scattering albedo affected by chemical composition: An investigation using CRDS combined with MARGA. <i>Atmospheric Research</i> , 2013, 124, 149-157.	4.1	27
68	Particle-Phase Photoreactions of HULIS and TMs Establish a Strong Source of H ₂ O ₂ and Particulate Sulfate in the Winter North China Plain. <i>Environmental Science & Technology</i> , 2021, 55, 7818-7830.	10.0	24
69	Investigating particles, VOCs, ROS produced from mosquito-repellent incense emissions and implications in SOA formation and human health. <i>Building and Environment</i> , 2018, 143, 645-651.	6.9	22
70	An indicator for sulfuric acid-amine nucleation in atmospheric environments. <i>Aerosol Science and Technology</i> , 2021, 55, 1059-1069.	3.1	19
71	Emissions of Ammonia and Other Nitrogen-Containing Volatile Organic Compounds from Motor Vehicles under Low-Speed Driving Conditions. <i>Environmental Science & Technology</i> , 2022, 56, 5440-5447.	10.0	19
72	A multifunctional HTDMA system with a robust temperature control. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 1235-1240.	4.3	18

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73	Detection of gaseous dimethylamine using vocus proton-transfer-reaction time-of-flight mass spectrometry. <i>Atmospheric Environment</i> , 2020, 243, 117875.	4.1	18
74	Addressing Unresolved Complex Mixture of I/SVOCs Emitted From Incomplete Combustion of Solid Fuels by Nontarget Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035835.	3.3	18
75	Absorption Enhancement of Black Carbon Aerosols Constrained by Mixing-State Heterogeneity. <i>Environmental Science & Technology</i> , 2022, 56, 1586-1593.	10.0	18
76	Comparison of Alkylnitronaphthalenes Formed in NO ₃ and OH Radical-Initiated Chamber Reactions with those Observed in Ambient Air. <i>Environmental Science & Technology</i> , 2010, 44, 2981-2987.	10.0	17
77	Estimating the influence of transport on aerosol size distributions during new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16587-16599.	4.9	17
78	Impact of adsorbed nitrate on the heterogeneous conversion of SO ₂ on α -Fe ₂ O ₃ in the absence and presence of simulated solar irradiation. <i>Science of the Total Environment</i> , 2019, 649, 1393-1402.	8.0	17
79	Direct Observation of Sulfate Explosive Growth in Wet Plumes Emitted From Typical Coal-Fired Stationary Sources. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092071.	4.0	17
80	Modification in light absorption cross section of laboratory-generated black carbon-brown carbon particles upon surface reaction and hydration. <i>Atmospheric Environment</i> , 2015, 116, 253-261.	4.1	16
81	Uptake of Gaseous Alkylamides by Suspended Sulfuric Acid Particles: Formation of Ammonium/Aminium Salts. <i>Environmental Science & Technology</i> , 2017, 51, 11710-11717.	10.0	16
82	Natural attenuation mechanism and health risk assessment of 1,1,2-trichloroethane in contaminated groundwater. <i>Journal of Environmental Management</i> , 2019, 242, 457-464.	7.8	16
83	Chemical Characteristics and Brown Carbon Chromophores of Atmospheric Organic Aerosols Over the Yangtze River Channel: A Cruise Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032497.	3.3	16
84	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
85	Molecular Composition of Oxygenated Organic Molecules and Their Contributions to Organic Aerosol in Beijing. <i>Environmental Science & Technology</i> , 2022, 56, 770-778.	10.0	16
86	Characteristics of air pollution episodes influenced by biomass burning pollution in Shanghai, China. <i>Atmospheric Environment</i> , 2020, 238, 117756.	4.1	15
87	The roles of aqueous-phase chemistry and photochemical oxidation in oxygenated organic aerosols formation. <i>Atmospheric Environment</i> , 2021, 266, 118738.	4.1	14
88	Using highly time-resolved online mass spectrometry to examine biogenic and anthropogenic contributions to organic aerosol in Beijing. <i>Faraday Discussions</i> , 2021, 226, 382-408.	3.2	13
89	Hygroscopicity of ambient submicron particles in urban Hangzhou, China. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 342-347.	0.8	12
90	Double High-Level Ozone and PM _{2.5} Co-Pollution Episodes in Shanghai, China: Pollution Characteristics and Significant Role of Daytime HONO. <i>Atmosphere</i> , 2021, 12, 557.	2.3	12

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91	Size-resolved chemical composition analysis of ions produced by a commercial soft X-ray aerosol neutralizer. <i>Journal of Aerosol Science</i> , 2020, 147, 105586.	3.8	11
92	Assessment of particle size magnifier inversion methods to obtain the particle size distribution from atmospheric measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4885-4898.	3.1	11
93	The effects of surfactants on the heterogeneous uptake of sulfur dioxide on hematite. <i>Atmospheric Environment</i> , 2019, 213, 548-557.	4.1	10
94	Size-Resolved Mixing States and Sources of Amine-Containing Particles in the East China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033162.	3.3	10
95	Complexation of Fe(III)/Catechols in atmospheric aqueous phase and the consequent cytotoxicity assessment in human bronchial epithelial cells (BEAS-2B). <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110898.	6.0	10
96	Air quality in the middle and lower reaches of the Yangtze River channel: a cruise campaign. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14445-14464.	4.9	9
97	Impact of heterogeneous uptake of nitrogen dioxide on the conversion of acetaldehyde on gamma-alumina in the absence and presence of simulated solar irradiation. <i>Atmospheric Environment</i> , 2018, 187, 282-291.	4.1	9
98	A method for particulate matter 2.5 (PM _{2.5}) biotoxicity assay using luminescent bacterium. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 796-803.	6.0	9
99	Impacts of coagulation on the appearance time method for new particle growth rate evaluation and their corrections. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2287-2304.	4.9	9
100	Secondary Inorganic Ions Characteristics in PM _{2.5} Along Offshore and Coastal Areas of the Megacity Shanghai. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035139.	3.3	9
101	Characterization of a Kanomax [®] fast condensation particle counter in the sub-10 nm range. <i>Journal of Aerosol Science</i> , 2021, 155, 105772.	3.8	8
102	Measurement of atmospheric nanoparticles: Bridging the gap between gas-phase molecules and larger particles. <i>Journal of Environmental Sciences</i> , 2023, 123, 183-202.	6.1	7
103	Effect of NO ₂ Concentration on Product Yields of the Gas-Phase NO ₃ Radical-Initiated Reaction of Ethyl- and Dimethyl-naphthalenes. <i>Environmental Science & Technology</i> , 2009, 43, 2766-2772.	10.0	6
104	PM _{1.0} -Nitrite Heterogeneous Formation Demonstrated via a Modified Versatile Aerosol Concentration Enrichment System Coupled with Ion Chromatography. <i>Environmental Science & Technology</i> , 2021, 55, 9794-9804.	10.0	6
105	Development of an automatic linear calibration method for high-resolution single-particle mass spectrometry: improved chemical species identification for atmospheric aerosols. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4111-4121.	3.1	6
106	Catalytic oxidation of CS ₂ over atmospheric particles and oxide catalysts. <i>Science in China Series B: Chemistry</i> , 2001, 44, 587-595.	0.8	5
107	Atmospheric gaseous organic acids in winter in a rural site of the North China Plain. <i>Journal of Environmental Sciences</i> , 2022, 113, 190-203.	6.1	5
108	Characterization of peroxyacetyl nitrate (PAN) under different PM _{2.5} concentration in wintertime at a North China rural site. <i>Journal of Environmental Sciences</i> , 2022, 114, 221-232.	6.1	5

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109	Total OH Reactivity Measurements in a Suburban Site of Shanghai. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	5
110	Accurate observation of black and brown carbon in atmospheric fine particles via a versatile aerosol concentration enrichment system (VACES). <i>Science of the Total Environment</i> , 2022, 837, 155817.	8.0	4
111	Production Flux and Chemical Characteristics of Spray Aerosol Generated From Raindrop Impact on Seawater and Soil. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032052.	3.3	3
112	Performance comparison of SMPSs with soft X-ray and Kr-85 neutralizers in a humid atmosphere. <i>Journal of Aerosol Science</i> , 2021, 154, 105756.	3.8	3
113	Aqueous phase oxidation of bisulfite influenced by nitrate and its photolysis. <i>Science of the Total Environment</i> , 2021, 785, 147345.	8.0	3
114	Combined effects of high relative humidity and ultraviolet irradiation: Enhancing the production of gaseous NO ₂ from the photolysis of NH ₄ NO ₃ . <i>Science of the Total Environment</i> , 2022, 838, 156480.	8.0	3
115	On the Ship Particle Number Emission Index: Size-Resolved Microphysics and Key Controlling Parameters. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034427.	3.3	2
116	Hydroxyl radical-initiated aging of particulate squalane. <i>Atmospheric Environment</i> , 2020, 237, 117663.	4.1	1