Jun Zheng

List of Publications by Year
in descending order

68 papers	4,188 citations	147566 31 h-index	118652 62 g-index
94 all docs	94 docs citations	94 times ranked	3599 citing authors

#	Article	IF	Citations
1	Markedly enhanced absorption and direct radiative forcing of black carbon under polluted urban environments. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4266-4271.	3.3	453
2	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. Science, 2018, 361, 278-281.	6.0	415
3	Atmospheric nanoparticles formed from heterogeneous reactions of organics. Nature Geoscience, 2010, 3, 238-242.	5.4	269
4	Formation of nanoparticles of blue haze enhanced by anthropogenic pollution. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17650-17654.	3.3	244
5	Enhanced Light Absorption and Scattering by Carbon Soot Aerosol Internally Mixed with Sulfuric Acid. Journal of Physical Chemistry A, 2009, 113, 1066-1074.	1.1	200
6	Submicron aerosol analysis and organic source apportionment in an urban atmosphere in Pearl River Delta of China using high-resolution aerosol mass spectrometry. Journal of Geophysical Research, 2011, 116, .	3.3	182
7	Primary Sources and Secondary Formation of Organic Aerosols in Beijing, China. Environmental Science & Technology, 2012, 46, 9846-9853.	4.6	170
8	Measurement of atmospheric amines and ammonia using the high resolution time-of-flight chemical ionization mass spectrometry. Atmospheric Environment, 2015, 102, 249-259.	1.9	130
9	Effects of dicarboxylic acid coating on the optical properties of soot. Physical Chemistry Chemical Physics, 2009, 11, 7869.	1.3	99
10	Effects of Coating of Dicarboxylic Acids on the Massâ˘'Mobility Relationship of Soot Particles. Environmental Science & Technology, 2009, 43, 2787-2792.	4.6	98
11	Detection of atmospheric gaseous amines and amides by a high-resolution time-of-flight chemical ionization mass spectrometer with protonated ethanol reagent ions. Atmospheric Chemistry and Physics, 2016, 16, 14527-14543.	1.9	95
12	Particle acidity and sulfate production during severe haze events in China cannot be reliably inferred by assuming a mixture of inorganic salts. Atmospheric Chemistry and Physics, 2018, 18, 10123-10132.	1.9	90
13	Aerosol surface area concentration: a governing factor in new particle formation in Beijing. Atmospheric Chemistry and Physics, 2017, 17, 12327-12340.	1.9	87
14	Seasonal Characteristics of New Particle Formation and Growth in Urban Beijing. Environmental Science & Technology, 2020, 54, 8547-8557.	4.6	78
15	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. Faraday Discussions, 2021, 226, 334-347.	1.6	74
16	The characteristics of abnormal wintertime pollution events in the Jing-Jin-Ji region and its relationships with meteorological factors. Science of the Total Environment, 2018, 626, 887-898.	3.9	71
17	Sulfuric acidâ€"amine nucleation in urban Beijing. Atmospheric Chemistry and Physics, 2021, 21, 2457-2468.	1.9	70
18	Characteristics of one-year observation of VOCs, NOx, and O3 at an urban site in Wuhan, China. Journal of Environmental Sciences, 2019, 79, 297-310.	3.2	68

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19	Measurements of submicron aerosols in Houston, Texas during the 2009 SHARP field campaign. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,518.	1.2	56
20	Nucleation and growth of sub-3 nm particles in the polluted urban atmosphere of a megacity in China. Atmospheric Chemistry and Physics, 2016, 16, 2641-2657.	1.9	55
21	Reactions of Atmospheric Particulate Stabilized Criegee Intermediates Lead to High-Molecular-Weight Aerosol Components. Environmental Science & Technology, 2016, 50, 5702-5710.	4.6	54
22	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. Big Earth Data, 2020, 4, 295-321.	2.0	54
23	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing Newâ€Particle Formation in Beijing. Geophysical Research Letters, 2021, 48, e2020GL091944.	1.5	53
24	Source identification of trace elements in the atmosphere during the second Asian Youth Games in Nanjing, China: Influence of control measures on air quality. Atmospheric Pollution Research, 2016, 7, 547-556.	1.8	47
25	Ageing and hygroscopicity variation of black carbon particles in Beijing measured by a quasi-atmospheric aerosol evolution study (QUALITY) chamber. Atmospheric Chemistry and Physics, 2017, 17, 10333-10348.	1.9	47
26	Detection of formaldehyde emissions from an industrial zone in the Yangtze River Delta region of China using a proton transfer reaction ion-drift chemical ionization mass spectrometer. Atmospheric Measurement Techniques, 2016, 9, 6101-6116.	1.2	46
27	OH-Initiated Oxidation of Acetylacetone: Implications for Ozone and Secondary Organic Aerosol Formation. Environmental Science & Technology, 2018, 52, 11169-11177.	4.6	43
28	Role of stabilized Criegee Intermediate in secondary organic aerosol formation from the ozonolysis of Î±-cedrene. Atmospheric Environment, 2014, 94, 448-457.	1.9	40
29	Atmospheric Pressure-Ion Drift Chemical Ionization Mass Spectrometry for Detection of Trace Gas Species. Analytical Chemistry, 2010, 82, 7302-7308.	3.2	39
30	Measurements of nitrous acid (HONO) using ion drift-chemical ionization mass spectrometry during the 2009 SHARP field campaign. Atmospheric Environment, 2014, 94, 231-240.	1.9	35
31	Laboratory Investigation on the Role of Organics in Atmospheric Nanoparticle Growth. Journal of Physical Chemistry A, 2011, 115, 8940-8947.	1.1	34
32	Formation and growth of sub-3Ânm particles in megacities: impact of background aerosols. Faraday Discussions, 2021, 226, 348-363.	1.6	34
33	Acidâ€"Base Clusters during Atmospheric New Particle Formation in Urban Beijing. Environmental Science & Technology, 2021, 55, 10994-11005.	4.6	34
34	Measurements of submicron aerosols at the Californiaâ€"Mexico border during the Calâ€"Mex 2010 field campaign. Atmospheric Environment, 2014, 88, 308-319.	1.9	32
35	Observational Evidence for the Involvement of Dicarboxylic Acids in Particle Nucleation. Environmental Science and Technology Letters, 2020, 7, 388-394.	3.9	30
36	Quantitative Analysis of Hydroperoxyl Radical Using Flow Injection Analysis with Chemiluminescence Detection. Analytical Chemistry, 2003, 75, 4696-4700.	3.2	29

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37	Mixing state and light absorption enhancement of black carbon aerosols in summertime Nanjing, China. Atmospheric Environment, 2020, 222, 117141.	1.9	29
38	Impact of COVID-19 lockdown on ambient levels and sources of volatile organic compounds (VOCs) in Nanjing, China. Science of the Total Environment, 2021, 757, 143823.	3.9	29
39	Carbenium ion-mediated oligomerization of methylglyoxal for secondary organic aerosol formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13294-13299.	3.3	28
40	Responses of gaseous sulfuric acid and particulate sulfate to reduced SO2 concentration: A perspective from long-term measurements in Beijing. Science of the Total Environment, 2020, 721, 137700.	3.9	28
41	Light absorption properties and potential sources of particulate brown carbon in the Pearl River Delta region of China. Atmospheric Chemistry and Physics, 2019, 19, 11669-11685.	1.9	27
42	Volatile organic compounds in Tijuana during the Cal-Mex 2010 campaign: Measurements and source apportionment. Atmospheric Environment, 2013, 70, 521-531.	1.9	25
43	Measurements of nitrous acid (HONO) in urban area of Shanghai, China. Environmental Science and Pollution Research, 2016, 23, 5818-5829.	2.7	25
44	Uptake of Waterâ€soluble Gasâ€phase Oxidation Products Drives Organic Particulate Pollution in Beijing. Geophysical Research Letters, 2021, 48, e2020GL091351.	1.5	24
45	Measurements of formaldehyde at the U.S.â€"Mexico border during the Cal-Mex 2010 air quality study. Atmospheric Environment, 2013, 70, 513-520.	1.9	22
46	Development of a new corona discharge based ion source for high resolution time-of-flight chemical ionization mass spectrometer to measure gaseous H 2 SO 4 and aerosol sulfate. Atmospheric Environment, 2015, 119, 167-173.	1.9	22
47	Sizeâ€resolved measurements of mixing state and cloudâ€nucleating ability of aerosols in Nanjing, China. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9430-9450.	1.2	22
48	Contribution of nitrous acid to the atmospheric oxidation capacity in an industrial zone in the Yangtze River Delta region of China. Atmospheric Chemistry and Physics, 2020, 20, 5457-5475.	1.9	21
49	Data inversion methods to determine sub-3â€‰nm aerosol size distributions using the particle size magnifier. Atmospheric Measurement Techniques, 2018, 11, 4477-4491.	1.2	20
50	An indicator for sulfuric acidâ€"amine nucleation in atmospheric environments. Aerosol Science and Technology, 2021, 55, 1059-1069.	1.5	19
51	Emissions of Ammonia and Other Nitrogen-Containing Volatile Organic Compounds from Motor Vehicles under Low-Speed Driving Conditions. Environmental Science & Technology, 2022, 56, 5440-5447.	4.6	19
52	An intensive study on aerosol optical properties and affecting factors in Nanjing, China. Journal of Environmental Sciences, 2016, 40, 35-43.	3.2	18
53	Significant restructuring and light absorption enhancement of black carbon particles by ammonium nitrate coating. Environmental Pollution, 2020, 262, 114172.	3.7	18
54	Estimating the influence of transport on aerosol size distributions during new particle formation events. Atmospheric Chemistry and Physics, 2018, 18, 16587-16599.	1.9	17

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55	Overnight atmospheric transport and chemical processing of photochemically aged Houston urban and petrochemical industrial plume. Journal of Geophysical Research, 2010, 115, .	3.3	14
56	Budget of nitrous acid and its impacts on atmospheric oxidative capacity at an urban site in the central Yangtze River Delta region of China. Atmospheric Environment, 2020, 238, 117725.	1.9	13
57	CCN activity of secondary aerosols from terpene ozonolysis under atmospheric relevant conditions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4654-4669.	1.2	12
58	On-line measurement of fluorescent aerosols near an industrial zone in the Yangtze River Delta region using a wideband integrated bioaerosol spectrometer. Science of the Total Environment, 2019, 656, 447-457.	3.9	12
59	Mechanism of the atmospheric chemical transformation of acetylacetone and its implications in night-time second organic aerosol formation. Science of the Total Environment, 2020, 720, 137610.	3.9	9
60	Modeling spatial variation of gaseous air pollutants and particulate matters in a Metropolitan area using mobile monitoring data. Environmental Research, 2022, 210, 112858.	3.7	9
61	Effect of organic coatings derived from the OH-initiated oxidation of amines on soot morphology and cloud activation. Atmospheric Research, 2020, 239, 104905.	1.8	8
62	Influence of organic aerosol molecular composition on particle absorptive properties in autumn Beijing. Atmospheric Chemistry and Physics, 2022, 22, 1251-1269.	1.9	8
63	Optical properties and chemical apportionment of summertime PM2.5 in the suburb of Nanjing. Journal of Atmospheric Chemistry, 2016, 73, 119-135.	1.4	7
64	Measurement of atmospheric nanoparticles: Bridging the gap between gas-phase molecules and larger particles. Journal of Environmental Sciences, 2023, 123, 183-202.	3.2	7
65	Seasonality of nitrous acid near an industry zone in the Yangtze River Delta region of China: Formation mechanisms and contribution to the atmospheric oxidation capacity. Atmospheric Environment, 2021, 254, 118420.	1.9	4
66	Concentrations of total arsenic and arsenic species in PM2.5 in Nanjing, China: spatial variations and influences of local emission sources. Air Quality, Atmosphere and Health, 2021, 14, 271-281.	1.5	3
67	Evolution in physiochemical and cloud condensation nuclei activation properties of crop residue burning particles during photochemical aging. Journal of Environmental Sciences, 2019, 77, 43-53.	3.2	2
68	Radiatively driven NH3 release from agricultural field during wintertime slack season. Atmospheric Environment, 2021, 247, 118228.	1.9	2