

Jun Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,640
citations

331538

21
h-index

434063

31
g-index

57
all docs

57
docs citations

57
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric New Particle Formation Enhanced by Organic Acids. <i>Science</i> , 2004, 304, 1487-1490.	6.0	716
2	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.	3.3	244
3	Hydrogen-Bonding Interaction in Molecular Complexes and Clusters of Aerosol Nucleation Precursors. <i>Journal of Physical Chemistry A</i> , 2009, 113, 680-689.	1.1	183
4	Heterogeneous Reactions of Methylglyoxal in Acidic Media: Implications for Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2006, 40, 7682-7687.	4.6	175
5	Acid-base chemical reaction model for nucleation rates in the polluted atmospheric boundary layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18713-18718.	3.3	169
6	Size and time-resolved growth rate measurements of 1 to 5 nm freshly formed atmospheric nuclei. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3573-3589.	1.9	138
7	Contributions of different anthropogenic volatile organic compound sources to ozone formation at a receptor site in the Pearl River Delta region and its policy implications. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8801-8816.	1.9	137
8	Observation of neutral sulfuric acid-amine containing clusters in laboratory and ambient measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10823-10836.	1.9	120
9	Chemical ionization mass spectrometric measurements of atmospheric neutral clusters using the cluster-CIMS. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	110
10	First Measurements of Neutral Atmospheric Cluster and 1-2 nm Particle Number Size Distributions During Nucleation Events. <i>Aerosol Science and Technology</i> , 2011, 45, ii-v.	1.5	105
11	Diamine-sulfuric acid reactions are a potent source of new particle formation. <i>Geophysical Research Letters</i> , 2016, 43, 867-873.	1.5	78
12	Dependence of particle nucleation and growth on high-molecular-weight gas-phase products during ozonolysis of α -pinene. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7631-7644.	1.9	66
13	Heterogeneous chemistry of octanal and 2, 4-hexadienal with sulfuric acid. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	63
14	Modeling the impact of chlorine emissions from coal combustion and prescribed waste incineration on tropospheric ozone formation in China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2709-2724.	1.9	56
15	Multiple new-particle growth pathways observed at the US DOE Southern Great Plains field site. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9321-9348.	1.9	35
16	Characterization of submicron particles by time-of-flight aerosol chemical speciation monitor (ToF-ACSM) during wintertime: aerosol composition, sources, and chemical processes in Guangzhou, China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7595-7615.	1.9	33
17	Molecular constraints on particle growth during new particle formation. <i>Geophysical Research Letters</i> , 2014, 41, 6045-6054.	1.5	30
18	Chemical ionization of clusters formed from sulfuric acid and dimethylamine or diamines. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12513-12529.	1.9	30

#	ARTICLE	IF	CITATIONS
19	The size-resolved cloud condensation nuclei (CCN) activity and its prediction based on aerosol hygroscopicity and composition in the Pearl Delta River (PRD) region during wintertime 2014. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16419-16437.	1.9	29
20	Measurement report: Vertical distribution of atmospheric particulate matter within the urban boundary layer in southern China – size-segregated chemical composition and secondary formation through cloud processing and heterogeneous reactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6435-6453.	1.9	29
21	Comparison of Aerosol Hygroscopicity, Volatility, and Chemical Composition between a Suburban Site in the Pearl River Delta Region and a Marine Site in Okinawa. <i>Aerosol and Air Quality Research</i> , 2017, 17, 3194-3208.	0.9	23
22	Effects of continental emissions on cloud condensation nuclei (CCN) activity in the northern South China Sea during summertime 2018. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9153-9167.	1.9	16
23	Source apportionment of marine atmospheric aerosols in northern South China Sea during summertime 2018. <i>Environmental Pollution</i> , 2021, 289, 117948.	3.7	10
24	The important roles of surface tension and growth rate in the contribution of new particle formation (NPF) to cloud condensation nuclei (CCN) number concentration: evidence from field measurements in southern China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8575-8592.	1.9	9
25	Measurement of atmospheric nanoparticles: Bridging the gap between gas-phase molecules and larger particles. <i>Journal of Environmental Sciences</i> , 2023, 123, 183-202.	3.2	7
26	Contribution of New Particle Formation to Cloud Condensation Nuclei Activity and its Controlling Factors in a Mountain Region of Inland China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034302.	1.2	6
27	Ion trajectory simulations of a conical octopole ion guide and its comparison with a parallel one in chemical ionization mass spectrometric applications. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 965-972.	0.7	3
28	Application of a Fluorescent Probe for the Online Measurement of PM-Bound Reactive Oxygen Species in Chamber and Ambient Studies. <i>Sensors</i> , 2019, 19, 4564.	2.1	3
29	Atmospheric HONO formation during and after the Spring Festival holidays in a coastal city of China. <i>Journal of Environmental Sciences</i> , 2023, 127, 251-263.	3.2	3
30	Acid-base chemical reaction model for nucleation rates in the polluted atmospheric boundary layer. , 2013, , .		2
31	Theoretical investigation of a potentially important formation pathway of organosulfate in atmospheric aqueous aerosols. <i>Scientific Reports</i> , 2020, 10, 6299.	1.6	2
32	Measurement report: Distinct size dependence and diurnal variation in organic aerosol hygroscopicity, volatility, and cloud condensation nuclei activity at a rural site in the Pearl River Delta (PRD) region, China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8117-8136.	1.9	2
33	Atmospheric Sulfuric Acid Dimer Formation in a Polluted Environment. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6848.	1.2	0