

Hongyu Guo

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

5,653
citations

136740

32
h-index

174990

52
g-index

100
all docs

100
docs citations

100
times ranked

4522
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 37-42.	3.3	496
2	Fine-particle water and pH in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 5211-5228.	1.9	413
3	High aerosol acidity despite declining atmospheric sulfate concentrations over the past 15 years. Nature Geoscience, 2016, 9, 282-285.	5.4	327
4	Highly Acidic Ambient Particles, Soluble Metals, and Oxidative Potential: A Link between Sulfate and Aerosol Toxicity. Environmental Science & Technology, 2017, 51, 2611-2620.	4.6	323
5	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	3.3	269
6	Size-resolved measurements of brown carbon in water and methanol extracts and estimates of their contribution to ambient fine-particle light absorption. Atmospheric Chemistry and Physics, 2013, 13, 12389-12404.	1.9	268
7	Aerosol characterization over the southeastern United States using high-resolution aerosol mass spectrometry: spatial and seasonal variation of aerosol composition and sources with a focus on organic nitrates. Atmospheric Chemistry and Physics, 2015, 15, 7307-7336.	1.9	259
8	Reactive oxygen species associated with water-soluble PM _{2.5} in the southeastern United States: spatiotemporal trends and source apportionment. Atmospheric Chemistry and Physics, 2014, 14, 12915-12930.	1.9	224
9	Biomass burning dominates brown carbon absorption in the rural southeastern United States. Geophysical Research Letters, 2015, 42, 653-664.	1.5	212
10	On the implications of aerosol liquid water and phase separation for organic aerosol mass. Atmospheric Chemistry and Physics, 2017, 17, 343-369.	1.9	189
11	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2038-2043.	3.3	186
12	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,355.	1.2	176
13	Fine particle pH and gas-particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign. Atmospheric Chemistry and Physics, 2017, 17, 5703-5719.	1.9	168
14	High levels of ammonia do not raise fine particle pH sufficiently to yield nitrogen oxide-dominated sulfate production. Scientific Reports, 2017, 7, 12109.	1.6	144
15	Nitrate-driven urban haze pollution during summertime over the North China Plain. Atmospheric Chemistry and Physics, 2018, 18, 5293-5306.	1.9	143
16	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). Atmospheric Chemistry and Physics, 2014, 14, 12181-12194.	1.9	121
17	Effectiveness of ammonia reduction on control of fine particle nitrate. Atmospheric Chemistry and Physics, 2018, 18, 12241-12256.	1.9	120
18	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8110-8115.	3.3	118

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19	Assessing the impact of anthropogenic pollution on isoprene-derived secondary organic aerosol formation in PM _{2.5} collected from the Birmingham, Alabama, ground site during the 2013 Southern Oxidant and Aerosol Study. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4897-4914.	1.9	105
20	Heterogeneous N ₂ O ₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4345-4372.	1.2	103
21	On the link between hygroscopicity, volatility, and oxidation state of ambient and water-soluble aerosols in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8679-8694.	1.9	98
22	PM _{2.5} ; water-soluble elements in the southeastern United States: automated analytical method development, spatiotemporal distributions, source apportionment, and implications for health studies. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11667-11682.	1.9	91
23	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11471-11491.	1.9	88
24	Chemical Characterization of Water-Soluble Organic Aerosol in Contrasting Rural and Urban Environments in the Southeastern United States. <i>Environmental Science & Technology</i> , 2017, 51, 78-88.	4.6	77
25	Trends in particle-phase liquid water during the Southern Oxidant and Aerosol Study. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10911-10930.	1.9	75
26	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7771-7796.	1.2	71
27	Quantitative detection of iodine in the stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1860-1866.	3.3	61
28	The underappreciated role of nonvolatile cations in aerosol ammonium-sulfate molar ratios. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17307-17323.	1.9	53
29	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,137.	1.2	50
30	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,368.	1.2	49
31	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	4.7	45
32	The importance of size ranges in aerosol instrument intercomparisons: a case study for the Atmospheric Tomography Mission. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3631-3655.	1.2	34
33	CINO ₂ Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,994.	1.2	31
34	Importance of gas-particle partitioning of ammonia in haze formation in the rural agricultural environment. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7259-7269.	1.9	31
35	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1846-1861.	1.2	30
36	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. <i>Environmental Science & Technology</i> , 2021, 55, 6688-6699.	4.6	30

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37	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. <i>Geophysical Research Letters</i> , 2019, 46, 14826-14835.	1.5	28
38	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4517-4542.	1.2	28
39	Source apportionment of organic carbon in Centreville, AL using organosulfates in organic tracer-based positive matrix factorization. <i>Atmospheric Environment</i> , 2018, 186, 74-88.	1.9	24
40	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,897.	1.2	21
41	Characteristics and evolution of brown carbon in western United States wildfires. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8009-8036.	1.9	21
42	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1545-1559.	1.2	20
43	Quantification of cooking organic aerosol in the indoor environment using aerodyne aerosol mass spectrometers. <i>Aerosol Science and Technology</i> , 2021, 55, 1099-1114.	1.5	20
44	Redistribution of PM _{2.5} -associated nitrate and ammonium during outdoor-to-indoor transport. <i>Indoor Air</i> , 2019, 29, 460-468.	2.0	19
45	Real-time measurements of gas-phase organic acids using SF ₆ -tagged chemical ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5087-5104.	1.2	16
46	Evaluation of a New Aerosol Chemical Speciation Monitor (ACSM) System at an Urban Site in Atlanta, GA: The Use of Capture Vaporizer and PM _{2.5} Inlet. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2565-2576.	1.2	16
47	A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 459-483.	1.2	15
48	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science & Technology</i> , 2022, 56, 7564-7577.	4.6	15
49	Significant contrasts in aerosol acidity between China and the United States. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8341-8356.	1.9	13
50	Fine Ash-Bearing Particles as a Major Aerosol Component in Biomass Burning Smoke. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	13
51	Reconciling Assumptions in Bottom-Up and Top-Down Approaches for Estimating Aerosol Emission Rates From Wildland Fires Using Observations From FIREX-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	1.2	10
52	Interferences with aerosol acidity quantification due to gas-phase ammonia uptake onto acidic sulfate filter samples. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6193-6213.	1.2	6
53	High Aerosol Acidity Despite Declining Atmospheric Sulfate Concentrations: Lessons from Observations and Implications for Models. <i>Springer Proceedings in Complexity</i> , 2018, , 171-176.	0.2	0