

Weiwei Hu

List of Publications by Year in descending order

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82
papers

5,386
citations

94433

37
h-index

91884

69
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151
all docs

151
docs citations

151
times ranked

4212
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.1	15
2	The impact of chlorine chemistry combined with heterogeneous N ₂ O ₅ reactions on air quality in China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3743-3762.	4.9	2
3	Direct observations indicate photodegradable oxygenated volatile organic compounds (OVOCs) as larger contributors to radicals and ozone production in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4117-4128.	4.9	24
4	The formation and mitigation of nitrate pollution: comparison between urban and suburban environments. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4539-4556.	4.9	27
5	Chemical composition and sources of amines in PM _{2.5} in an urban site of PRD, China. <i>Environmental Research</i> , 2022, 212, 113261.	7.5	3
6	Oxidation Flow Reactor Results in a Chinese Megacity Emphasize the Important Contribution of S/IVOCs to Ambient SOA Formation. <i>Environmental Science & Technology</i> , 2022, 56, 6880-6893.	10.0	21
7	Evolution of light absorption properties during photochemical aging of straw open burning aerosols. <i>Science of the Total Environment</i> , 2022, 838, 156431.	8.0	4
8	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.	4.9	2
9	Budget of nitrous acid (HONO) at an urban site in the fall season of Guangzhou, China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8951-8971.	4.9	12
10	Variations in physicochemical properties of airborne particles during a heavy haze-to-dust episode in Beijing. <i>Science of the Total Environment</i> , 2021, 762, 143081.	8.0	12
11	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3395-3425.	4.9	16
12	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	32
13	Chemical characterization of oxygenated organic compounds in the gas phase and particle phase using iodide CIMS with FIGAERO in urban air. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8455-8478.	4.9	35
14	A review of measurement techniques for aerosol effective density. <i>Science of the Total Environment</i> , 2021, 778, 146248.	8.0	15
15	Measurement report: Emissions of intermediate-volatility organic compounds from vehicles under real-world driving conditions in an urban tunnel. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10005-10013.	4.9	23
16	Contrasting effects of secondary organic aerosol formations on organic aerosol hygroscopicity. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10375-10391.	4.9	10
17	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	4.9	60
18	Real-time Characterization of Aerosol Compositions, Sources, and Aging Processes in Guangzhou During PRIDE-CBA 2018 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035114.	3.3	25

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19	Black Carbon Involved Photochemistry Enhances the Formation of Sulfate in the Ambient Atmosphere: Evidence From In Situ Individual Particle Investigation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035226.	3.3	15
20	Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex). <i>Environmental Science & Technology</i> , 2020, 54, 14923-14935.	10.0	15
21	High Concentrations of Atmospheric Isocyanic Acid (HNCO) Produced from Secondary Sources in China. <i>Environmental Science & Technology</i> , 2020, 54, 11818-11826.	10.0	20
22	Chemical nature and sources of fine particles in urban Beijing: Seasonality and formation mechanisms. <i>Environment International</i> , 2020, 140, 105732.	10.0	26
23	Comprehensive Source Apportionment of Submicron Aerosol in Shijiazhuang, China: Secondary Aerosol Formation and Holiday Effects. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 947-957.	2.7	9
24	Characterization of anthropogenic organic aerosols by TOF-ACSM with the new capture vaporizer. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2457-2472.	3.1	33
25	Ambient Quantification and Size Distributions for Organic Aerosol in Aerosol Mass Spectrometers with the New Capture Vaporizer. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 676-689.	2.7	10
26	Resolving Ambient Organic Aerosol Formation and Aging Pathways with Simultaneous Molecular Composition and Volatility Observations. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 391-402.	2.7	19
27	Natural and Anthropogenically Influenced Isoprene Oxidation in Southeastern United States and Central Amazon. <i>Environmental Science & Technology</i> , 2020, 54, 5980-5991.	10.0	22
28	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13091-13107.	4.9	14
29	Tropospheric aerosol hygroscopicity in China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13877-13903.	4.9	14
30	Measurements of higher alkanes using NO _x -induced chemical ionization in PTR-ToF-MS: important contributions of higher alkanes to secondary organic aerosols in China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14123-14138.	4.9	24
31	Measurement report: Important contributions of oxygenated compounds to emissions and chemistry of volatile organic compounds in urban air. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14769-14785.	4.9	50
32	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.	4.9	33
33	Contrasting sources and processes of particulate species in haze days with low and high relative humidity in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9101-9114.	4.9	34
34	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.	3.1	6
35	A simplified parameterization of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) for global chemistry and climate models: a case study with GEOS-Chem v11-02-rc. <i>Geoscientific Model Development</i> , 2019, 12, 2983-3000.	3.6	22
36	Biogenic emissions and land-atmosphere interactions as drivers of the daytime evolution of secondary organic aerosol in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 701-729.	4.9	11

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37	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science & Technology</i> , 2019, 53, 8682-8694.	10.0	111
38	Importance of biogenic volatile organic compounds to acyl peroxy nitrates (APN) production in the southeastern US during SOAS 2013. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1867-1880.	4.9	10
39	Aerosol Phase State and Its Link to Chemical Composition and Liquid Water Content in a Subtropical Coastal Megacity. <i>Environmental Science & Technology</i> , 2019, 53, 5027-5033.	10.0	43
40	Laser Ablation-Aerosol Mass Spectrometry-Chemical Ionization Mass Spectrometry for Ambient Surface Imaging. <i>Analytical Chemistry</i> , 2018, 90, 4046-4053.	6.5	6
41	Evaluation of the New Capture Vaporizer for Aerosol Mass Spectrometers (AMS): Elemental Composition and Source Apportionment of Organic Aerosols (OA). <i>ACS Earth and Space Chemistry</i> , 2018, 2, 410-421.	2.7	24
42	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 467-493.	4.9	63
43	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2038-2043.	7.1	186
44	Laboratory evaluation of species-dependent relative ionization efficiencies in the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2018, 52, 626-641.	3.1	49
45	Model Evaluation of New Techniques for Maintaining High-NO Conditions in Oxidation Flow Reactors for the Study of OH-Initiated Atmospheric Chemistry. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 72-86.	2.7	26
46	Evaluation of the new capture vaporizer for aerosol mass spectrometers: Characterization of organic aerosol mass spectra. <i>Aerosol Science and Technology</i> , 2018, 52, 725-739.	3.1	25
47	Organosulfates in aerosols downwind of an urban region in central Amazon. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1546-1558.	3.5	40
48	Functional Group Composition of Secondary Organic Aerosol Formed from Ozonolysis of α -Pinene Under High VOC and Autoxidation Conditions. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1196-1210.	2.7	58
49	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	53
50	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12185-12206.	4.9	30
51	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	22
52	Evaluation of the new capture vaporizer for aerosol mass spectrometers (AMS) through field studies of inorganic species. <i>Aerosol Science and Technology</i> , 2017, 51, 735-754.	3.1	63
53	Microphysical explanation of the RH-dependent water affinity of biogenic organic aerosol and its importance for climate. <i>Geophysical Research Letters</i> , 2017, 44, 5167-5177.	4.0	74
54	Field intercomparison of the gas/particle partitioning of oxygenated organics during the Southern Oxidant and Aerosol Study (SOAS) in 2013. <i>Aerosol Science and Technology</i> , 2017, 51, 30-56.	3.1	39

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55	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6108-6129.	3.3	184
56	Impact of Thermal Decomposition on Thermal Desorption Instruments: Advantage of Thermogram Analysis for Quantifying Volatility Distributions of Organic Species. <i>Environmental Science & Technology</i> , 2017, 51, 8491-8500.	10.0	117
57	On the implications of aerosol liquid water and phase separation for organic aerosol mass. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 343-369.	4.9	189
58	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6611-6629.	4.9	45
59	Evaluation of the new capture vapourizer for aerosol mass spectrometers (AMS) through laboratory studies of inorganic species. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2897-2921.	3.1	51
60	Evolution of secondary inorganic and organic aerosols during transport: A case study at a regional receptor site. <i>Environmental Pollution</i> , 2016, 218, 794-803.	7.5	18
61	Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. <i>Environmental Science & Technology</i> , 2016, 50, 9952-9962.	10.0	69
62	Chemical composition, sources, and aging process of submicron aerosols in Beijing: Contrast between summer and winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1955-1977.	3.3	259
63	Phase state of ambient aerosol linked with water uptake and chemical aging in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11163-11176.	4.9	64
64	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11563-11580.	4.9	82
65	Characterization of submicron aerosols influenced by biomass burning at a site in the Sichuan Basin, southwestern China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13213-13230.	4.9	46
66	Aqueous-phase mechanism for secondary organic aerosol formation from isoprene: application to the southeast United States and co-benefit of SO ₂ and NO _x emission controls. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1603-1618.	4.9	257
67	Non-OH chemistry in oxidation flow reactors for the study of atmospheric chemistry systematically examined by modeling. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4283-4305.	4.9	117
68	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC ⁴ RS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5969-5991.	4.9	173
69	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7411-7433.	4.9	137
70	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. <i>Environmental Science & Technology</i> , 2016, 50, 2200-2209.	10.0	141
71	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1516-1521.	7.1	269
72	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	4.9	185

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73	Biomass burning dominates brown carbon absorption in the rural southeastern United States. <i>Geophysical Research Letters</i> , 2015, 42, 653-664.	4.0	212
74	Airborne measurements of organosulfates over the continental U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2990-3005.	3.3	96
75	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science & Technology</i> , 2015, 49, 10330-10339.	10.0	172
76	Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4418-4432.	2.5	126
77	The identification of source regions of black carbon at a receptor site off the eastern coast of China. <i>Atmospheric Environment</i> , 2015, 100, 78-84.	4.1	20
78	Research on Secondary Organic Aerosols Basing on Field Measurement. <i>Acta Chimica Sinica</i> , 2014, 72, 145.	1.4	7
79	Insights on organic aerosol aging and the influence of coal combustion at a regional receptor site of central eastern China. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10095-10112.	4.9	145
80	VOC emissions, evolutions and contributions to SOA formation at a receptor site in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8815-8832.	4.9	220
81	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9233-9257.	3.3	231
82	The characteristics and origins of carbonaceous aerosol at a rural site of PRD in summer of 2006. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1811-1822.	4.9	65