

Pengfei Liu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,636
citations

218381

26
h-index

197535

49
g-index

72
all docs

72
docs citations

72
times ranked

3125
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the Nonlinear Effect of Atmospheric Variables on Primary and Oxygenated Organic Aerosol Concentration Using Machine Learning. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1059-1066.	1.2	8
2	Stable Iron Isotopic Signature Reveals Multiple Sources of Magnetic Particulate Matter in the 2021 Beijing Sandstorms. <i>Environmental Science and Technology Letters</i> , 2022, 9, 299-305.	3.9	7
3	Global Emissions of Hydrogen Chloride and Particulate Chloride from Continental Sources. <i>Environmental Science & Technology</i> , 2022, 56, 3894-3904.	4.6	15
4	Effect of Different Combustion Processes on Atmospheric Nitrous Acid Formation Mechanisms: A Winter Comparative Observation in Urban, Suburban and Rural Areas of the North China Plain. <i>Environmental Science & Technology</i> , 2022, 56, 4828-4837.	4.6	6
5	Ammonium Chloride Associated Aerosol Liquid Water Enhances Haze in Delhi, India. <i>Environmental Science & Technology</i> , 2022, 56, 7163-7173.	4.6	21
6	Complex Interplay Between Organic and Secondary Inorganic Aerosols With Ambient Relative Humidity Implicates the Aerosol Liquid Water Content Over India During Wintertime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
7	Aqueous production of secondary organic aerosol from fossil-fuel emissions in winter Beijing haze. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	75
8	Particle-Phase Photoreactions of HULIS and TMI ₂ 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.	4.6	24
9	Improved estimates of preindustrial biomass burning reduce the magnitude of aerosol climate forcing in the Southern Hemisphere. <i>Science Advances</i> , 2021, 7, .	4.7	22
10	Significant contrasts in aerosol acidity between China and the United States. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8341-8356.	1.9	13
11	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093808.	1.5	8
12	Humidity Dependence of the Condensational Growth of α -Pinene Secondary Organic Aerosol Particles. <i>Environmental Science & Technology</i> , 2021, 55, 14360-14369.	4.6	15
13	Fine particle pH and its influencing factors during summer at Mt. Tai: Comparison between mountain and urban sites. <i>Atmospheric Environment</i> , 2021, 261, 118607.	1.9	7
14	Ammonium nitrate promotes sulfate formation through uptake kinetic regime. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13269-13286.	1.9	24
15	A novel clean combustion technology for solid fuels to efficiently reduce gaseous and particulate emissions. <i>Journal of Cleaner Production</i> , 2021, 320, 128864.	4.6	9
16	Global modeling of heterogeneous hydroxymethanesulfonate chemistry. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 457-481.	1.9	17
17	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021, 14, 77-84.	5.4	94
18	Hemispheric black carbon increase after the 13th-century Māori arrival in New Zealand. <i>Nature</i> , 2021, 598, 82-85.	13.7	20

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19	Chemical Characterization and Source Apportionment of Organic Aerosols in the Coastal City of Chennai, India: Impact of Marine Air Masses on Aerosol Chemical Composition and Potential for Secondary Organic Aerosol Formation. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3197-3209.	1.2	12
20	Photochemical Aging of Atmospheric Fine Particles as a Potential Source for Gas-Phase Hydrogen Peroxide. <i>Environmental Science & Technology</i> , 2021, 55, 15063-15071.	4.6	8
21	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM _{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16775-16791.	1.9	18
22	Long-Term Exposure to Low-Level NO ₂ and Mortality among the Elderly Population in the Southeastern United States. <i>Environmental Health Perspectives</i> , 2021, 129, 127009.	2.8	26
23	Long-term effects of PM _{2.5} on neurological disorders in the American Medicare population: a longitudinal cohort study. <i>Lancet Planetary Health</i> , The, 2020, 4, e557-e565.	5.1	151
24	Urban Air Pollution May Enhance COVID-19 Case-Fatality and Mortality Rates in the United States. <i>Innovation(China)</i> , 2020, 1, 100047.	5.2	177
25	Synergistic Uptake by Acidic Sulfate Particles of Gaseous Mixtures of Glyoxal and Pinanediol. <i>Environmental Science & Technology</i> , 2020, 54, 11762-11770.	4.6	5
26	Fast sulfate formation from oxidation of SO ₂ by NO ₂ and HONO observed in Beijing haze. <i>Nature Communications</i> , 2020, 11, 2844.	5.8	161
27	Trends and spatial shifts in lightning fires and smoke concentrations in response to 21st century climate over the national forests and parks of the western United States. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8827-8838.	1.9	32
28	Quantifying the Role of the Relative Humidity-Dependent Physical State of Organic Particulate Matter in the Uptake of Semivolatile Organic Molecules. <i>Environmental Science & Technology</i> , 2019, 53, 13209-13218.	4.6	16
29	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015–2018/2019. <i>Environmental Science and Technology Letters</i> , 2019, 6, 752-760.	3.9	56
30	Influence of Particle Surface Area Concentration on the Production of Organic Particulate Matter in a Continuously Mixed Flow Reactor. <i>Environmental Science & Technology</i> , 2019, 53, 4968-4976.	4.6	4
31	Highly Viscous States Affect the Browning of Atmospheric Organic Particulate Matter. <i>ACS Central Science</i> , 2018, 4, 207-215.	5.3	60
32	Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
33	High H ₂ O Concentrations Observed during Haze Periods during the Winter in Beijing: Importance of H ₂ O Oxidation in Sulfate Formation. <i>Environmental Science and Technology Letters</i> , 2018, 5, 757-763.	3.9	91
34	Resolving the mechanisms of hygroscopic growth and cloud condensation nuclei activity for organic particulate matter. <i>Nature Communications</i> , 2018, 9, 4076.	5.8	84
35	The Reactivity of Toluene-Derived Secondary Organic Material with Ammonia and the Influence of Water Vapor. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7739-7747.	1.1	10
36	Influence of Particle Physical State on the Uptake of Medium-Sized Organic Molecules. <i>Environmental Science & Technology</i> , 2018, 52, 8381-8389.	4.6	11

#	ARTICLE	IF	CITATIONS
37	Cloud Activation Potentials for Atmospheric α -Pinene and β -Caryophyllene Ozonolysis Products. ACS Central Science, 2017, 3, 715-725.	5.3	40
38	Liquid-liquid phase separation in particles containing secondary organic material free of inorganic salts. Atmospheric Chemistry and Physics, 2017, 17, 11261-11271.	1.9	45
39	Lability of secondary organic particulate matter. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12643-12648.	3.3	93
40	The possible contribution of the periodic emissions from farmers' activities in the North China Plain to atmospheric water-soluble ions in Beijing. Atmospheric Chemistry and Physics, 2016, 16, 10097-10109.	1.9	47
41	Observations and implications of liquid-liquid phase separation at high relative humidities in secondary organic material produced by α -pinene ozonolysis without inorganic salts. Atmospheric Chemistry and Physics, 2016, 16, 7969-7979.	1.9	93
42	Relative humidity-dependent viscosity of secondary organic material from toluene photo-oxidation and possible implications for organic particulate matter over megacities. Atmospheric Chemistry and Physics, 2016, 16, 8817-8830.	1.9	95
43	Chronic effects of temperature on mortality in the Southeastern USA using satellite-based exposure metrics. Scientific Reports, 2016, 6, 30161.	1.6	33
44	Sub-micrometre particulate matter is primarily in liquid form over Amazon rainforest. Nature Geoscience, 2016, 9, 34-37.	5.4	99
45	Estimating daily air temperature across the Southeastern United States using high-resolution satellite data: A statistical modeling study. Environmental Research, 2016, 146, 51-58.	3.7	58
46	Ultraviolet and visible complex refractive indices of secondary organic material produced by photooxidation of the aromatic compounds toluene and <i>m</i> -xylene. Atmospheric Chemistry and Physics, 2015, 15, 1435-1446.	1.9	121
47	Relative humidity-dependent viscosities of isoprene-derived secondary organic material and atmospheric implications for isoprene-dominant forests. Atmospheric Chemistry and Physics, 2015, 15, 5145-5159.	1.9	100
48	Changing shapes and implied viscosities of suspended submicron particles. Atmospheric Chemistry and Physics, 2015, 15, 7819-7829.	1.9	106
49	Impacts of temperature and its variability on mortality in New England. Nature Climate Change, 2015, 5, 988-991.	8.1	146
50	Chemical Reactivity and Liquid/Nonliquid States of Secondary Organic Material. Environmental Science & Technology, 2015, 49, 13264-13274.	4.6	74
51	The impact of aerosol hygroscopic growth on the single-scattering albedo and its application on the NO_2 photolysis rate coefficient. Atmospheric Chemistry and Physics, 2014, 14, 12055-12067.	1.9	34
52	Complex Refractive Indices of Thin Films of Secondary Organic Materials by Spectroscopic Ellipsometry from 220 to 1200 nm. Environmental Science & Technology, 2013, 47, 13594-13601.	4.6	85