

Yue Zhang

List of Publications by Year in descending order

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papers

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331670

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#	ARTICLE	IF	CITATIONS
1	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). <i>Environmental Science and Technology Letters</i> , 2018, 5, 167-174.	8.7	131
2	Water diffusion in atmospherically relevant α -pinene secondary organic material. <i>Chemical Science</i> , 2015, 6, 4876-4883.	7.4	116
3	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
4	Sub-micrometre particulate matter is primarily in liquid form over Amazon rainforest. <i>Nature Geoscience</i> , 2016, 9, 34-37.	12.9	99
5	Observations and implications of liquid-liquid phase separation at high relative humidities in secondary organic material produced by α -pinene ozonolysis without inorganic salts. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7969-7979.	4.9	93
6	Complex Refractive Indices of Thin Films of Secondary Organic Materials by Spectroscopic Ellipsometry from 220 to 1200 nm. <i>Environmental Science & Technology</i> , 2013, 47, 13594-13601.	10.0	85
7	Joint Impacts of Acidity and Viscosity on the Formation of Secondary Organic Aerosol from Isoprene Epoxydiols (IEPOX) in Phase Separated Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2646-2658.	2.7	80
8	Effect of varying experimental conditions on the viscosity of α -pinene derived secondary organic material. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6027-6040.	4.9	79
9	Development of a hydrophilic interaction liquid chromatography (HILIC) method for the chemical characterization of water-soluble isoprene epoxydiol (IEPOX)-derived secondary organic aerosol. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1524-1536.	3.5	66
10	Highly Viscous States Affect the Browning of Atmospheric Organic Particulate Matter. <i>ACS Central Science</i> , 2018, 4, 207-215.	11.3	60
11	A biogenic secondary organic aerosol source of cirrus ice nucleating particles. <i>Nature Communications</i> , 2020, 11, 4834.	12.8	45
12	Heterogeneous Hydroxyl Radical Oxidation of Isoprene-Epoxydiol-Derived Methyltetrol Sulfates: Plausible Formation Mechanisms of Previously Unexplained Organosulfates in Ambient Fine Aerosols. <i>Environmental Science and Technology Letters</i> , 2020, 7, 460-468.	8.7	43
13	Predicting secondary organic aerosol phase state and viscosity and its effect on multiphase chemistry in a regional-scale air quality model. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8201-8225.	4.9	42
14	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. <i>Environmental Science & Technology</i> , 2019, 53, 12366-12378.	10.0	37
15	Organic Coating Reduces Hygroscopic Growth of Phase-Separated Aerosol Particles. <i>Environmental Science & Technology</i> , 2021, 55, 16339-16346.	10.0	37
16	Reactive Uptake of Isoprene Epoxydiols Increases the Viscosity of the Core of Phase-Separated Aerosol Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1402-1414.	2.7	35
17	Laboratory study of the heterogeneous ice nucleation on black-carbon-containing aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12175-12194.	4.9	32
18	Investigating the Heterogeneous Ice Nucleation of Sea Spray Aerosols Using <i>Prochlorococcus</i> as a Model Source of Marine Organic Matter. <i>Environmental Science & Technology</i> , 2019, 53, 1139-1149.	10.0	32

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19	Vibrational Sum Frequency Generation Spectroscopy of Secondary Organic Material Produced by Condensational Growth from $\hat{1}\pm$ -Pinene Ozonolysis. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8427-8436.	2.5	29
20	On Surface Order and Disorder of $\hat{1}\pm$ -Pinene-Derived Secondary Organic Material. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4609-4617.	2.5	27
21	Toxicological Responses of $\hat{1}\pm$ -Pinene-Derived Secondary Organic Aerosol and Its Molecular Tracers in Human Lung Cell Lines. <i>Chemical Research in Toxicology</i> , 2021, 34, 817-832.	3.3	23
22	The effects of morphology, mobility size, and secondary organic aerosol (SOA) material coating on the ice nucleation activity of black carbon in the cirrus regime. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13957-13984.	4.9	23
23	$\hat{1}\pm$ -Pinene-Derived organic coatings on acidic sulfate aerosol impacts secondary organic aerosol formation from isoprene in a box model. <i>Atmospheric Environment</i> , 2019, 213, 456-462.	4.1	21
24	Photoelectrochemical CdSe/TiO ₂ nanotube array microsensors for high-resolution in-situ detection of dopamine. <i>Mikrochimica Acta</i> , 2018, 185, 278.	5.0	18
25	Kinetically controlled glass transition measurement of organic aerosol thin films using broadband dielectric spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3479-3490.	3.1	15
26	Morphology and Viscosity Changes after Reactive Uptake of Isoprene Epoxydiols in Submicrometer Phase Separated Particles with Secondary Organic Aerosol Formed from Different Volatile Organic Compounds. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 871-882.	2.7	11
27	Atmospheric $\hat{1}^2$ -Caryophyllene-Derived Ozonolysis Products at Interfaces. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 158-169.	2.7	10
28	Initial pH Governs Secondary Organic Aerosol Phase State and Morphology after Uptake of Isoprene Epoxydiols (IEPOX). <i>Environmental Science & Technology</i> , 2022, 56, 10596-10607.	10.0	9
29	Synthesis and surface spectroscopy of $\hat{1}\pm$ -pinene isotopologues and their corresponding secondary organic material. <i>Chemical Science</i> , 2019, 10, 8390-8398.	7.4	8
30	Modeling the Size Distribution and Chemical Composition of Secondary Organic Aerosols during the Reactive Uptake of Isoprene-Derived Epoxydiols under Low-Humidity Condition. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3247-3257.	2.7	7
31	Enhanced Ice Nucleation of Simulated Sea Salt Particles with the Addition of Anthropogenic Per- and Polyfluoroalkyl Substances. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2074-2085.	2.7	6
32	Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
33	Production and Measurement of Organic Particulate Matter in the Harvard Environmental Chamber. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3