

Haofei Zhang

List of Publications by Year in descending order

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41
papers

2,253
citations

304743

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276875

41
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docs citations

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times ranked

2497
citing authors

#	ARTICLE	IF	CITATIONS
1	Isoprene Epoxydiols as Precursors to Secondary Organic Aerosol Formation: Acid-Catalyzed Reactive Uptake Studies with Authentic Compounds. <i>Environmental Science & Technology</i> , 2012, 46, 250-258.	10.0	363
2	Epoxide as a precursor to secondary organic aerosol formation from isoprene photooxidation in the presence of nitrogen oxides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6718-6723.	7.1	266
3	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
4	Light-Absorbing Oligomer Formation in Secondary Organic Aerosol from Reactive Uptake of Isoprene Epoxydiols. <i>Environmental Science & Technology</i> , 2014, 48, 12012-12021.	10.0	143
5	Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9437-9446.	10.0	128
6	Secondary organic aerosol formation from xylenes and mixtures of toluene and xylenes in an atmospheric urban hydrocarbon mixture: Water and particle seed effects (II). <i>Atmospheric Environment</i> , 2011, 45, 3882-3890.	4.1	108
7	Secondary organic aerosol formation from toluene in an atmospheric hydrocarbon mixture: Water and particle seed effects. <i>Atmospheric Environment</i> , 2011, 45, 2324-2334.	4.1	96
8	The reactive oxidant potential of different types of aged atmospheric particles: An outdoor chamber study. <i>Atmospheric Environment</i> , 2011, 45, 3848-3855.	4.1	90
9	Role of Water and Phase in the Heterogeneous Oxidation of Solid and Aqueous Succinic Acid Aerosol by Hydroxyl Radicals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28978-28992.	3.1	70
10	Ion mobility spectrometry-mass spectrometry (IMS-MS) for on- and offline analysis of atmospheric gas and aerosol species. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3245-3262.	3.1	64
11	Brown Carbon Formation from Nighttime Chemistry of Unsaturated Heterocyclic Volatile Organic Compounds. <i>Environmental Science and Technology Letters</i> , 2019, 6, 184-190.	8.7	60
12	Secondary organic aerosol formation from methacrolein photooxidation: roles of NO _x level, relative humidity and aerosol acidity. <i>Environmental Chemistry</i> , 2012, 9, 247.	1.5	58
13	Characterizing Semivolatile Organic Compounds of Biocrude from Hydrothermal Liquefaction of Biomass. <i>Energy & Fuels</i> , 2017, 31, 4122-4134.	5.1	51
14	Formation of secondary organic aerosol from nitrate radical oxidation of phenolic VOCs: Implications for nitration mechanisms and brown carbon formation. <i>Atmospheric Environment</i> , 2021, 244, 117910.	4.1	50
15	Secondary Organic Aerosol Formation via 2-Methyl-3-buten-2-ol Photooxidation: Evidence of Acid-Catalyzed Reactive Uptake of Epoxides. <i>Environmental Science and Technology Letters</i> , 2014, 1, 242-247.	8.7	42
16	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
17	Comprehensive Chemical Characterization of Hydrocarbons in NIST Standard Reference Material 2779 Gulf of Mexico Crude Oil. <i>Environmental Science & Technology</i> , 2015, 49, 13130-13138.	10.0	39
18	Chemical and Toxicological Characterization of Vaping Emission Products from Commonly Used Vape Juice Diluents. <i>Chemical Research in Toxicology</i> , 2020, 33, 2157-2163.	3.3	28

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19	Sensitive detection of α,ω -alkanes using a mixed ionization mode proton-transfer-reaction mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5315-5329.	3.1	26
20	Interfacial Dimerization by Organic Radical Reactions during Heterogeneous Oxidative Aging of Oxygenated Organic Aerosols. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10782-10792.	2.5	26
21	Diverse Reactions in Highly Functionalized Organic Aerosols during Thermal Desorption. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 283-296.	2.7	24
22	OH-Initiated Heterogeneous Oxidation of Cholestane: A Model System for Understanding the Photochemical Aging of Cyclic Alkane Aerosols. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12449-12458.	2.5	23
23	Fundamental Time Scales Governing Organic Aerosol Multiphase Partitioning and Oxidative Aging. <i>Environmental Science & Technology</i> , 2015, 49, 9768-9777.	10.0	23
24	Modeling comprehensive chemical composition of weathered oil following a marine spill to predict ozone and potential secondary aerosol formation and constrain transport pathways. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7300-7315.	2.6	22
25	Compositional Evolution of Secondary Organic Aerosol as Temperature and Relative Humidity Cycle in Atmospherically Relevant Ranges. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2549-2558.	2.7	21
26	Heterogeneous Ozonolysis of Endocyclic Unsaturated Organic Aerosol Proxies: Implications for Criegee Intermediate Dynamics and Later-Generation Reactions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 344-356.	2.7	21
27	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
28	Isomeric Product Detection in the Heterogeneous Reaction of Hydroxyl Radicals with Aerosol Composed of Branched and Linear Unsaturated Organic Molecules. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11555-11571.	2.5	18
29	Isolating β -Pinene Ozonolysis Pathways Reveals New Insights into Peroxy Radical Chemistry and Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2021, 55, 6700-6709.	10.0	18
30	A new gas-phase condensed mechanism of isoprene-NO _x photooxidation. <i>Atmospheric Environment</i> , 2011, 45, 4507-4521.	4.1	15
31	Molecular characterization of alkyl nitrates in atmospheric aerosols by ion mobility mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5535-5545.	3.1	15
32	Time-Dependent Density Functional Theory Investigation of the UV-Vis Spectra of Organonitrogen Chromophores in Brown Carbon. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 311-320.	2.7	15
33	Site-Specific Mechanisms in OH-Initiated Organic Aerosol Heterogeneous Oxidation Revealed by Isomer-Resolved Molecular Characterization. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 783-794.	2.7	12
34	Role of functional groups in reaction kinetics of dithiothreitol with secondary organic aerosols. <i>Environmental Pollution</i> , 2020, 263, 114402.	7.5	11
35	Solvent effects on chemical composition and optical properties of extracted secondary brown carbon constituents. <i>Aerosol Science and Technology</i> , 2022, 56, 917-930.	3.1	11
36	SO ₂ oxidation and nucleation studies at near-atmospheric conditions in outdoor smog chamber. <i>Environmental Chemistry</i> , 2013, 10, 210.	1.5	10

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37	Secondary Ion Chemistry Mediated by Ozone and Acidic Organic Molecules in Iodide-Adduct Chemical Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 8595-8602.	6.5	10
38	Modeling secondary organic aerosol formation from xylene and aromatic mixtures using a dynamic partitioning approach incorporating particle aqueous-phase chemistry (II). <i>Atmospheric Environment</i> , 2012, 56, 250-260.	4.1	8
39	Modelling of secondary organic aerosol formation from isoprene photooxidation chamber studies using different approaches. <i>Environmental Chemistry</i> , 2013, 10, 194.	1.5	7
40	The influence of isoprene peroxy radical isomerization mechanisms on ozone simulation with the presence of NO _x . <i>Journal of Atmospheric Chemistry</i> , 2012, 69, 67-81.	3.2	5
41	Chemical Structure Regulates the Formation of Secondary Organic Aerosol and Brown Carbon in Nitrate Radical Oxidation of Pyrroles and Methylpyrroles. <i>Environmental Science & Technology</i> , 2022, 56, 7761-7770.	10.0	4