

# Haofei Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,253  
citations

304743

22  
h-index

276875

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2497  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Chemical Structure Regulates the Formation of Secondary Organic Aerosol and Brown Carbon in Nitrate Radical Oxidation of Pyrroles and Methylpyrroles. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7761-7770. | 10.0 | 4         |
| 2  | 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        |
| 3  | 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        |
| 4  | Isolating $\beta$ -Pinene Ozonolysis Pathways Reveals New Insights into Peroxy Radical Chemistry and Secondary Organic Aerosol Formation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6700-6709.             | 10.0 | 18        |
| 5  | 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        |
| 6  | Diverse Reactions in Highly Functionalized Organic Aerosols during Thermal Desorption. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 283-296.  | 2.7  | 24        |
| 7  | 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        |
| 8  | 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        |
| 9  | 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        |
| 10 | 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        |
| 11 | Role of functional groups in reaction kinetics of dithiothreitol with secondary organic aerosols. <i>Environmental Pollution</i> , 2020, 263, 114402.  | 7.5  | 11        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | 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        |
| 17 | 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        |
| 18 | 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       |

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|----|---|------|-----------|
| 19 | Characterizing Semivolatile Organic Compounds of Biocrude from Hydrothermal Liquefaction of Biomass. <i>Energy &amp; Fuels</i> , 2017, 31, 4122-4134.   | 5.1  | 51        |
| 20 | Sensitive detection of <i>n</i> -alkanes using a mixed ionization mode proton-transfer-reaction mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5315-5329.  | 3.1  | 26        |
| 21 | 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        |
| 22 | 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        |
| 23 | Fundamental Time Scales Governing Organic Aerosol Multiphase Partitioning and Oxidative Aging. <i>Environmental Science &amp; Technology</i> , 2015, 49, 9768-9777.   | 10.0 | 23        |
| 24 | Comprehensive Chemical Characterization of Hydrocarbons in NIST Standard Reference Material 2779 Gulf of Mexico Crude Oil. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13130-13138.   | 10.0 | 39        |
| 25 | 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        |
| 26 | 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        |
| 27 | Light-Absorbing Oligomer Formation in Secondary Organic Aerosol from Reactive Uptake of Isoprene Epoxydiols. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12012-12021.   | 10.0 | 143       |
| 28 | 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        |
| 29 | 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        |
| 30 | SO <sub>2</sub> oxidation and nucleation studies at near-atmospheric conditions in outdoor smog chamber. <i>Environmental Chemistry</i> , 2013, 10, 210.  | 1.5  | 10        |
| 31 | 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       |
| 32 | Modelling of secondary organic aerosol formation from isoprene photooxidation chamber studies using different approaches. <i>Environmental Chemistry</i> , 2013, 10, 194.   | 1.5  | 7         |
| 33 | Secondary organic aerosol formation from methacrolein photooxidation: roles of NO <sub>x</sub> level, relative humidity and aerosol acidity. <i>Environmental Chemistry</i> , 2012, 9, 247.   | 1.5  | 58        |
| 34 | Isoprene Epoxydiols as Precursors to Secondary Organic Aerosol Formation: Acid-Catalyzed Reactive Uptake Studies with Authentic Compounds. <i>Environmental Science &amp; Technology</i> , 2012, 46, 250-258.   | 10.0 | 363       |
| 35 | Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9437-9446.  | 10.0 | 128       |
| 36 | The influence of isoprene peroxy radical isomerization mechanisms on ozone simulation with the presence of NO <sub>x</sub> . <i>Journal of Atmospheric Chemistry</i> , 2012, 69, 67-81.   | 3.2  | 5         |

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|----|---|-----|-----------|
| 37 | Modeling secondary organic aerosol formation from xylene and aromatic mixtures using a dynamic partitioning approach incorporating particle aqueous-phase chemistry (II). Atmospheric Environment, 2012, 56, 250-260. | 4.1 | 8         |
| 38 | Secondary organic aerosol formation from toluene in an atmospheric hydrocarbon mixture: Water and particle seed effects. Atmospheric Environment, 2011, 45, 2324-2334.  | 4.1 | 96        |
| 39 | Secondary organic aerosol formation from xylenes and mixtures of toluene and xylenes in an atmospheric urban hydrocarbon mixture: Water and particle seed effects (II). Atmospheric Environment, 2011, 45, 3882-3890. | 4.1 | 108       |
| 40 | The reactive oxidant potential of different types of aged atmospheric particles: An outdoor chamber study. Atmospheric Environment, 2011, 45, 3848-3855.  | 4.1 | 90        |
| 41 | A new gas-phase condensed mechanism of isoprene-NO <sub>x</sub> photooxidation. Atmospheric Environment, 2011, 45, 4507-4521.   | 4.1 | 15        |