

Zhenfa Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,489
citations

361413

20
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

2032
citing authors

#	ARTICLE	IF	CITATIONS
1	pH is the primary determinant of the bacterial community structure in agricultural soils impacted by polycyclic aromatic hydrocarbon pollution. <i>Scientific Reports</i> , 2017, 7, 40093.	3.3	144
2	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
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	Chemical Characterization of Secondary Organic Aerosol from Oxidation of Isoprene Hydroxyhydroperoxides. <i>Environmental Science & Technology</i> , 2016, 50, 9889-9899.	10.0	105
5	Assessing the impact of anthropogenic pollution on isoprene-derived secondary organic aerosol formation in PM _{2.5} collected from the Birmingham, Alabama, ground site during the 2013 Southern Oxidant and Aerosol Study. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4897-4914.	4.9	105
6	Highly Oxygenated Multifunctional Compounds in α -Pinene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 5932-5940.	10.0	93
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	Identification of Anthraquinone-Degrading Bacteria in Soil Contaminated with Polycyclic Aromatic Hydrocarbons. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3775-3781.	3.1	68
9	Effect of Organic Coatings, Humidity and Aerosol Acidity on Multiphase Chemistry of Isoprene Epoxydiols. <i>Environmental Science & Technology</i> , 2016, 50, 5580-5588.	10.0	68
10	Isoprene-Derived Organosulfates: Vibrational Mode Analysis by Raman Spectroscopy, Acidity-Dependent Spectral Modes, and Observation in Individual Atmospheric Particles. <i>Journal of Physical Chemistry A</i> , 2018, 122, 303-315.	2.5	66
11	Gut Microbiome Toxicity: Connecting the Environment and Gut Microbiome-Associated Diseases. <i>Toxics</i> , 2020, 8, 19.	3.7	66
12	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of Oxidative Stress Response Genes in Human Lung Cells. <i>Environmental Science and Technology Letters</i> , 2016, 3, 250-254.	8.7	60
13	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
14	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
15	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
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	Nontarget Analysis Reveals a Bacterial Metabolite of Pyrene Implicated in the Genotoxicity of Contaminated Soil after Bioremediation. <i>Environmental Science & Technology</i> , 2017, 51, 7091-7100.	10.0	34
18	Chemical Characterization of Isoprene- and Monoterpene-Derived Secondary Organic Aerosol Tracers in Remote Marine Aerosols over a Quarter Century. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 935-946.	2.7	27

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19	Evidence that endogenous formaldehyde produces immunogenic and atherogenic adduct epitopes. <i>Scientific Reports</i> , 2017, 7, 10787.	3.3	23
20	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of MicroRNAs Associated with Inflammatory/Oxidative Stress Response in Lung Cells. <i>Chemical Research in Toxicology</i> , 2020, 33, 381-387.	3.3	22
21	Synthesis of uniformly ¹³ C-labeled polycyclic aromatic hydrocarbons. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5431.	2.8	21
22	Protein Sulfenylation: A Novel Readout of Environmental Oxidant Stress. <i>Chemical Research in Toxicology</i> , 2015, 28, 2411-2418.	3.3	19
23	Seasonal Contribution of Isoprene-Derived Organosulfates to Total Water-Soluble Fine Particulate Organic Sulfur in the United States. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2419-2432.	2.7	16
24	Ethenoguanines Undergo Glycosylation by Nucleoside 2-Deoxyribosyltransferases at Non-Natural Sites. <i>PLoS ONE</i> , 2014, 9, e115082.	2.5	12
25	Trisaminohexyl isocyanurate, a urinary biomarker of HDI isocyanurate exposure. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1076, 117-129.	2.3	11
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	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
28	Per- and polyfluoroalkyl substances (PFASs) in airborne particulate matter (PM2.0) emitted during floor waxing: A pilot study. <i>Atmospheric Environment</i> , 2022, 268, 118845.	4.1	8
29	Live cell imaging of oxidative stress in human airway epithelial cells exposed to isoprene hydroxyhydroperoxide. <i>Redox Biology</i> , 2022, 51, 102281.	9.0	6
30	Toward Elucidating the Human Gut Microbiota-Brain Axis: Molecules, Biochemistry, and Implications for Health and Diseases. <i>Biochemistry</i> , 2022, 61, 2806-2821.	2.5	6
31	Organosulfates from Dark Aqueous Reactions of Isoprene-Derived Epoxydiols Under Cloud and Fog Conditions: Kinetics, Mechanism, and Effect of Reaction Environment on Regioselectivity of Sulfate Addition. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 474-486.	2.7	5
32	An unexpected butadiene diolepoxide-mediated genotoxicity implies alternative mechanism for 1,3-butadiene carcinogenicity. <i>Chemosphere</i> , 2021, 266, 129149.	8.2	5