

Siddharth Iyer

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,203
citations

516710

16
h-index

752698

20
g-index

27
all docs

27
docs citations

27
times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	7.1	269
2	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. Environmental Science & Technology, 2016, 50, 2200-2209.	10.0	141
3	Constraining the sensitivity of iodide adduct chemical ionization mass spectrometry to multifunctional organic molecules using the collision limit and thermodynamic stability of iodide ion adducts. Atmospheric Measurement Techniques, 2016, 9, 1505-1512.	3.1	132
4	Efficient Isoprene Secondary Organic Aerosol Formation from a Non-IEPOX Pathway. Environmental Science & Technology, 2016, 50, 9872-9880.	10.0	100
5	Role of iodine oxoacids in atmospheric aerosol nucleation. Science, 2021, 371, 589-595.	12.6	94
6	Modeling the Detection of Organic and Inorganic Compounds Using Iodide-Based Chemical Ionization. Journal of Physical Chemistry A, 2016, 120, 576-587.	2.5	93
7	The role of highly oxygenated molecules (HOMs) in determining the composition of ambient ions in the boreal forest. Atmospheric Chemistry and Physics, 2017, 17, 13819-13831.	4.9	66
8	Molecular mechanism for rapid autoxidation in α -pinene ozonolysis. Nature Communications, 2021, 12, 878.	12.8	47
9	Computational Comparison of Different Reagent Ions in the Chemical Ionization of Oxidized Multifunctional Compounds. Journal of Physical Chemistry A, 2018, 122, 269-279.	2.5	43
10	Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7670-7686.	3.3	39
11	Computational and Experimental Investigation of the Detection of HO ₂ Radical and the Products of Its Reaction with Cyclohexene Ozonolysis Derived RO ₂ Radicals by an Iodide-Based Chemical Ionization Mass Spectrometer. Journal of Physical Chemistry A, 2017, 121, 6778-6789.	2.5	31
12	Ion Mobility-Mass Spectrometry of Iodine Pentoxide Iodic Acid Hybrid Cluster Anions in Dry and Humidified Atmospheres. Journal of Physical Chemistry Letters, 2019, 10, 1935-1941.	4.6	26
13	Direct field evidence of autocatalytic iodine release from atmospheric aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
14	Multi-scheme chemical ionization inlet (MION) for fast switching of reagent ion chemistry in atmospheric pressure chemical ionization mass spectrometry (CIMS) applications. Atmospheric Measurement Techniques, 2019, 12, 6635-6646.	3.1	24
15	Computational Investigation of RO ₂ + HO ₂ and RO ₂ + RO ₂ Reactions of Monoterpene Derived First-Generation Peroxy Radicals Leading to Radical Recycling. Journal of Physical Chemistry A, 2018, 122, 9542-9552.	2.5	19
16	Determination of the collision rate coefficient between charged iodic acid clusters and iodic acid using the appearance time method. Aerosol Science and Technology, 2021, 55, 231-242.	3.1	18
17	Measurement of iodine species and sulfuric acid using bromide chemical ionization mass spectrometers. Atmospheric Measurement Techniques, 2021, 14, 4187-4202.	3.1	13
18	Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts. Journal of Physical Chemistry Letters, 2019, 10, 2051-2057.	4.6	11

#	ARTICLE	IF	CITATIONS
19	Pathways to Highly Oxidized Products in the $\hat{\text{I}}^{\text{3}}$ -Carene + OH System. Environmental Science & Technology, 2022, 56, 2213-2224.	10.0	8
20	Investigation of several proxies to estimate sulfuric acid concentration under volcanic plume conditions. Atmospheric Chemistry and Physics, 2021, 21, 4541-4560.	4.9	3