Roy L Mauldin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6496436/publications.pdf

Version: 2024-02-01

35 papers	5,179 citations	172457 29 h-index	361022 35 g-index
35 all docs	35 docs citations	35 times ranked	4018 citing authors

#	Article	IF	Citations
1	Synergistic HNO3â€“H2SO4â€“NH3 upper tropospheric particle formation. Nature, 2022, 605, 483-489.	27.8	26
2	Role of iodine oxoacids in atmospheric aerosol nucleation. Science, 2021, 371, 589-595.	12.6	94
3	The driving factors of new particle formation and growth in the polluted boundary layer. Atmospheric Chemistry and Physics, 2021, 21, 14275-14291.	4.9	38
4	Indirect Measurements of the Composition of Ultrafine Particles in the Arctic Lateâ€Winter. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035428.	3.3	2
5	Chemical composition of nanoparticles from <i>Î±</i>-pinene nucleation and the influence of isoprene and relative humidity at low temperature. Atmospheric Chemistry and Physics, 2021, 21, 17099-17114.	4.9	12
6	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. Nature, 2020, 581, 184-189.	27.8	169
7	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. Science Advances, 2020, 6, eaay4945.	10.3	61
8	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. Environmental Science & Technology, 2020, 54, 7911-7921.	10.0	66
9	Molecular Composition and Volatility of Nucleated Particles from Î±-Pinene Oxidation between â˜’50 Â°C and +25 Â°C. Environmental Science & Technology, 2019, 53, 12357-12365.	10.0	32
10	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Science Advances, 2018, 4, eaau5363.	10.3	164
11	Sources and characteristics of summertime organic aerosol in the Colorado Front Range: perspective from measurements and WRF-Chem modeling. Atmospheric Chemistry and Physics, 2018, 18, 8293-8312.	4.9	13
12	Ambient Measurements of Highly Oxidized Gas-Phase Molecules during the Southern Oxidant and Aerosol Study (SOAS) 2013. ACS Earth and Space Chemistry, 2018, 2, 653-672.	2.7	56
13	Ambient observations of dimers from terpene oxidation in the gas phase: Implications for new particle formation and growth. Geophysical Research Letters, 2017, 44, 2958-2966.	4.0	71
14	Rapid cycling of reactive nitrogen in the marine boundary layer. Nature, 2016, 532, 489-491.	27.8	159
15	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. Environmental Science & Technology, 2015, 49, 10330-10339.	10.0	172
16	Mercury Emission Ratios from Coal-Fired Power Plants in the Southeastern United States during NOMADSS. Environmental Science & Technology, 2015, 49, 10389-10397.	10.0	36
17	High levels of molecular chlorine in the Arctic atmosphere. Nature Geoscience, 2014, 7, 91-94.	12.9	105
18	Competing atmospheric reactions of CH₂OO with SO₂and water vapour. Physical Chemistry Chemical Physics, 2014, 16, 19130.	2.8	93

#	Article	IF	Citations
19	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. Atmospheric Chemistry and Physics, 2014, 14, 6345-6367.	4.9	62
20	Direct Observations of Atmospheric Aerosol Nucleation. Science, 2013, 339, 943-946.	12.6	876
21	Atmospheric sulphuric acid and neutral cluster measurements using CI-APi-TOF. Atmospheric Chemistry and Physics, 2012, 12, 4117-4125.	4.9	393
22	A new atmospherically relevant oxidant of sulphur dioxide. Nature, 2012, 488, 193-196.	27.8	465
23	Gas-Phase Ozonolysis of Selected Olefins: The Yield of Stabilized Criegee Intermediate and the Reactivity toward SO₂. Journal of Physical Chemistry Letters, 2012, 3, 2892-2896.	4.6	88
24	A complete dynamical ozone budget measured in the tropical marine boundary layer during PASE. Journal of Atmospheric Chemistry, 2011, 68, 55-70.	3.2	21
25	Pacific Atmospheric Sulfur Experiment (PASE): dynamics and chemistry of the south Pacific tropical trade wind regime. Journal of Atmospheric Chemistry, 2011, 68, 5-25.	3.2	13
26	The Role of Sulfuric Acid in Atmospheric Nucleation. Science, 2010, 327, 1243-1246.	12.6	694
27	Connection of Sulfuric Acid to Atmospheric Nucleation in Boreal Forest. Environmental Science & Technology, 2009, 43, 4715-4721.	10.0	84
28	Sulfuric acid and OH concentrations in a boreal forest site. Atmospheric Chemistry and Physics, 2009, 9, 7435-7448.	4.9	348
29	New particle formation in the Front Range of the Colorado Rocky Mountains. Atmospheric Chemistry and Physics, 2008, 8, 1577-1590.	4.9	83
30	A criterion for new particle formation in the sulfur-rich Atlanta atmosphere. Journal of Geophysical Research, 2005, 110, .	3.3	187
31	Airborne observations of DMSO, DMS, and OH at marine tropical latitudes. Geophysical Research Letters, 2001, 28, 2201-2204.	4.0	34
32	An investigation of South Pole HOxchemistry: Comparison of model results with ISCAT observations. Geophysical Research Letters, 2001, 28, 3633-3636.	4.0	61
33	Measurements of OH, H2SO4, and MSA at the South Pole during ISCAT. Geophysical Research Letters, 2001, 28, 3629-3632.	4.0	101
34	New Particle Formation in the Remote Troposphere: A Comparison of Observations at Various Sites. Geophysical Research Letters, 1999, 26, 307-310.	4.0	240
35	New insights on OH: Measurements around and in clouds. Geophysical Research Letters, 1997, 24, 3033-3036.	4.0	60