

Roy L Mauldin

List of Publications by Year in descending order

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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	Direct Observations of Atmospheric Aerosol Nucleation. <i>Science</i> , 2013, 339, 943-946.	12.6	876
2	The Role of Sulfuric Acid in Atmospheric Nucleation. <i>Science</i> , 2010, 327, 1243-1246.	12.6	694
3	A new atmospherically relevant oxidant of sulphur dioxide. <i>Nature</i> , 2012, 488, 193-196.	27.8	465
4	Atmospheric sulphuric acid and neutral cluster measurements using CI-API-TOF. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4117-4125.	4.9	393
5	Sulfuric acid and OH concentrations in a boreal forest site. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7435-7448.	4.9	348
6	New Particle Formation in the Remote Troposphere: A Comparison of Observations at Various Sites. <i>Geophysical Research Letters</i> , 1999, 26, 307-310.	4.0	240
7	A criterion for new particle formation in the sulfur-rich Atlanta atmosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	187
8	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science & Technology</i> , 2015, 49, 10330-10339.	10.0	172
9	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. <i>Nature</i> , 2020, 581, 184-189.	27.8	169
10	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	10.3	164
11	Rapid cycling of reactive nitrogen in the marine boundary layer. <i>Nature</i> , 2016, 532, 489-491.	27.8	159
12	High levels of molecular chlorine in the Arctic atmosphere. <i>Nature Geoscience</i> , 2014, 7, 91-94.	12.9	105
13	Measurements of OH, H ₂ SO ₄ , and MSA at the South Pole during ISCAT. <i>Geophysical Research Letters</i> , 2001, 28, 3629-3632.	4.0	101
14	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021, 371, 589-595.	12.6	94
15	Competing atmospheric reactions of CH ₂ OO with SO ₂ and water vapour. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19130.	2.8	93
16	Gas-Phase Ozonolysis of Selected Olefins: The Yield of Stabilized Criegee Intermediate and the Reactivity toward SO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2892-2896.	4.6	88
17	Connection of Sulfuric Acid to Atmospheric Nucleation in Boreal Forest. <i>Environmental Science & Technology</i> , 2009, 43, 4715-4721.	10.0	84
18	New particle formation in the Front Range of the Colorado Rocky Mountains. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1577-1590.	4.9	83

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19	Ambient observations of dimers from terpene oxidation in the gas phase: Implications for new particle formation and growth. <i>Geophysical Research Letters</i> , 2017, 44, 2958-2966.	4.0	71
20	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. <i>Environmental Science & Technology</i> , 2020, 54, 7911-7921.	10.0	66
21	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6345-6367.	4.9	62
22	An investigation of South Pole HOx chemistry: Comparison of model results with ISCAT observations. <i>Geophysical Research Letters</i> , 2001, 28, 3633-3636.	4.0	61
23	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. <i>Science Advances</i> , 2020, 6, eaay4945.	10.3	61
24	New insights on OH: Measurements around and in clouds. <i>Geophysical Research Letters</i> , 1997, 24, 3033-3036.	4.0	60
25	Ambient Measurements of Highly Oxidized Gas-Phase Molecules during the Southern Oxidant and Aerosol Study (SOAS) 2013. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 653-672.	2.7	56
26	The driving factors of new particle formation and growth in the polluted boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14275-14291.	4.9	38
27	Mercury Emission Ratios from Coal-Fired Power Plants in the Southeastern United States during NOMADSS. <i>Environmental Science & Technology</i> , 2015, 49, 10389-10397.	10.0	36
28	Airborne observations of DMSO, DMS, and OH at marine tropical latitudes. <i>Geophysical Research Letters</i> , 2001, 28, 2201-2204.	4.0	34
29	Molecular Composition and Volatility of Nucleated Particles from Î±-Pinene Oxidation between -50 Å°C and +25 Å°C. <i>Environmental Science & Technology</i> , 2019, 53, 12357-12365.	10.0	32
30	Synergistic HNO ₃ -H ₂ SO ₄ -NH ₃ upper tropospheric particle formation. <i>Nature</i> , 2022, 605, 483-489.	27.8	26
31	A complete dynamical ozone budget measured in the tropical marine boundary layer during PASE. <i>Journal of Atmospheric Chemistry</i> , 2011, 68, 55-70.	3.2	21
32	Pacific Atmospheric Sulfur Experiment (PASE): dynamics and chemistry of the south Pacific tropical trade wind regime. <i>Journal of Atmospheric Chemistry</i> , 2011, 68, 5-25.	3.2	13
33	Sources and characteristics of summertime organic aerosol in the Colorado Front Range: perspective from measurements and WRF-Chem modeling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8293-8312.	4.9	13
34	Chemical composition of nanoparticles from Î±-pinene nucleation and the influence of isoprene and relative humidity at low temperature. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17099-17114.	4.9	12
35	Indirect Measurements of the Composition of Ultrafine Particles in the Arctic Late-Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035428.	3.3	2