

Melissa M Galloway

List of Publications by Year in descending order

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papers

782
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1040056

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times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Brown Carbon Formation by Aqueous-Phase Carbonyl Compound Reactions with Amines and Ammonium Sulfate. <i>Environmental Science & Technology</i> , 2014, 48, 985-993.	10.0	210
2	Glyoxal in Aqueous Ammonium Sulfate Solutions: Products, Kinetics and Hydration Effects. <i>Environmental Science & Technology</i> , 2011, 45, 6336-6342.	10.0	209
3	Secondary Organic Aerosol Formation during Evaporation of Droplets Containing Atmospheric Aldehydes, Amines, and Ammonium Sulfate. <i>Environmental Science & Technology</i> , 2014, 48, 14417-14425.	10.0	84
4	Maillard Chemistry in Clouds and Aqueous Aerosol As a Source of Atmospheric Humic-Like Substances. <i>Environmental Science & Technology</i> , 2016, 50, 7443-7452.	10.0	54
5	Glycolaldehyde Monomer and Oligomer Equilibria in Aqueous Solution: Comparing Computational Chemistry and NMR Data. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2997-3008.	2.5	49
6	Heterocyclic Product Formation in Aqueous Brown Carbon Systems. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2472-2481.	2.7	38
7	Formaldehyde and Acetaldehyde Increase Aqueous-Phase Production of Imidazoles in Methylglyoxal/Amine Mixtures: Quantifying a Secondary Organic Aerosol Formation Mechanism. <i>Environmental Science and Technology Letters</i> , 2017, 4, 234-239.	8.7	37
8	pH Dependence of the Imidazole-2-carboxaldehyde Hydration Equilibrium: Implications for Atmospheric Light Absorbance. <i>Environmental Science and Technology Letters</i> , 2017, 4, 551-555.	8.7	33
9	Free Energy Map for the Co-Oligomerization of Formaldehyde and Ammonia. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2122-2131.	2.5	22
10	<i>In Situ</i> Surface Tension Measurements of Hanging Droplet Methylglyoxal/Ammonium Sulfate Aerosol Mimics under Photooxidative Conditions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1208-1215.	2.7	9
11	Brown Carbon Formation Potential of the Biacetyl/Ammonium Sulfate Reaction System. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1104-1113.	2.7	9
12	Radical-Initiated Brown Carbon Formation in Sunlit Carbonyl/Amine/Ammonium Sulfate Mixtures and Aqueous Aerosol Particles. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 228-238.	2.7	8
13	Separation and detection of aqueous atmospheric aerosol mimics using supercritical fluid chromatography/mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3841-3851.	3.1	7
14	Similarities in STXM-NEXAFS Spectra of Atmospheric Particles and Secondary Organic Aerosol Generated from Glyoxal, α -Pinene, Isoprene, 1,2,4-Trimethylbenzene, and d-Limonene. <i>Aerosol Science and Technology</i> , 2013, 47, 543-555.	3.1	6
15	Competing Photochemical Effects in Aqueous Carbonyl/Ammonium Brown Carbon Systems. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1902-1915.	2.7	6