

Matthew M Coggon

List of Publications by Year in descending order

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62
papers

4,057
citations

87888

38
h-index

123424

61
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70
docs citations

70
times ranked

3467
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science & Technology</i> , 2022, 56, 7564-7577.	10.0	15
2	Identifying Volatile Chemical Product Tracer Compounds in U.S. Cities. <i>Environmental Science & Technology</i> , 2021, 55, 188-199.	10.0	60
3	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1545-1559.	3.1	20
4	Observations Confirm that Volatile Chemical Products Are a Major Source of Petrochemical Emissions in U.S. Cities. <i>Environmental Science & Technology</i> , 2021, 55, 4332-4343.	10.0	57
5	Volatile organic compound emissions from solvent- and water-borne coatings “ compositional differences and tracer compound identifications. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6005-6022.	4.9	24
6	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. <i>Environmental Science & Technology</i> , 2021, 55, 10280-10290.	10.0	31
7	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	4.9	60
8	Volatile chemical product emissions enhance ozone and modulate urban chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	103
9	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035203.	3.3	16
10	Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ and cloud condensation nuclei production in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
11	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	4.9	34
12	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021, 55, 15646-15657.	10.0	11
13	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	10.3	45
14	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18319-18331.	4.9	24
15	Urban Oxidation Flow Reactor Measurements Reveal Significant Secondary Organic Aerosol Contributions from Volatile Emissions of Emerging Importance. <i>Environmental Science & Technology</i> , 2020, 54, 714-725.	10.0	44
16	Biomass-burning-derived particles from a wide variety of fuels “ Part 2: Effects of photochemical aging on particle optical and chemical properties. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8511-8532.	4.9	41
17	Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 8568-8579.	10.0	72
18	The nitrogen budget of laboratory-simulated western US wildfires during the FIREX 2016 Fire Lab study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8807-8826.	4.9	45

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19	Marine Boundary Layer Clouds Associated with Coastally Trapped Disturbances: Observations and Model Simulations. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2963-2993.	1.7	4
20	Secondary organic aerosol formation from the laboratory oxidation of biomass burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12797-12809.	4.9	67
21	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science & Technology</i> , 2019, 53, 2529-2538.	10.0	68
22	OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14875-14899.	4.9	92
23	Effects of Biomass Burning on Stratocumulus Droplet Characteristics, Drizzle Rate, and Composition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12301-12318.	3.3	18
24	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D ₅) from the Application of Personal Care Products in Two North American Cities. <i>Environmental Science & Technology</i> , 2018, 52, 5610-5618.	10.0	72
25	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3299-3319.	4.9	233
26	A multi-year data set on aerosol-cloud-precipitation-meteorology interactions for marine stratocumulus clouds. <i>Scientific Data</i> , 2018, 5, 180026.	5.3	29
27	Primary emissions of glyoxal and methylglyoxal from laboratory measurements of open biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15451-15470.	4.9	28
28	Biomass Burning Plumes in the Vicinity of the California Coast: Airborne Characterization of Physicochemical Properties, Heating Rates, and Spatiotemporal Features. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,560.	3.3	25
29	High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9263-9281.	4.9	102
30	Calculation of the sensitivity of proton-transfer-reaction mass spectrometry (PTR-MS) for organic trace gases using molecular properties. <i>International Journal of Mass Spectrometry</i> , 2017, 421, 71-94.	1.5	101
31	Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. <i>Chemical Reviews</i> , 2017, 117, 13187-13229.	47.7	282
32	Emissions of volatile organic compounds (VOCs) from concentrated animal feeding operations (CAFOs): chemical compositions and separation of sources. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4945-4956.	4.9	53
33	Formation of highly oxygenated low-volatility products from cresol oxidation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3453-3474.	4.9	89
34	The Caltech Photooxidation Flow Tube reactor: design, fluid dynamics and characterization. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 839-867.	3.1	39
35	Evaluation of NO ⁺ and O ⁺ reagent ion chemistry for online measurements of atmospheric volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2909-2925.	3.1	48
36	Contrasting cloud composition between coupled and decoupled marine boundary layer clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,679.	3.3	21

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37	A note on the effects of inorganic seed aerosol on the oxidation state of secondary organic aerosolâ€” <i>Pinene ozonolysis</i> . <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,476.	3.3	14
38	Emissions of nitrogenâ€”containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. <i>Geophysical Research Letters</i> , 2016, 43, 9903-9912.	4.0	79
39	Real-Time Studies of Iron Oxalate-Mediated Oxidation of Glycolaldehyde as a Model for Photochemical Aging of Aqueous Tropospheric Aerosols. <i>Environmental Science & Technology</i> , 2016, 50, 12241-12249.	10.0	42
40	Stratocumulus Cloud Clearings and Notable Thermodynamic and Aerosol Contrasts across the Clearâ€”Cloudy Interface. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1083-1099.	1.7	24
41	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	2.8	179
42	Vapor wall deposition in Teflon chambers. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4197-4214.	4.9	125
43	Secondary Organic Aerosol Composition from C ₁₂ Alkanes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4281-4297.	2.5	53
44	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
45	Isoprene NO ₃ Oxidation Products from the RO ₂ + HO ₂ Pathway. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10158-10171.	2.5	86
46	Impact of emissions from shipping, land, and the ocean on stratocumulus cloud water elemental composition during the 2011 E-PEACE field campaign. <i>Atmospheric Environment</i> , 2014, 89, 570-580.	4.1	48
47	Sources of nitrate in stratocumulus cloud water: Airborne measurements during the 2011 E-PEACE and 2013 NiCE studies. <i>Atmospheric Environment</i> , 2014, 97, 166-173.	4.1	52
48	Observations of continental biogenic impacts on marine aerosol and clouds off the coast of California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6724-6748.	3.3	33
49	Secondary organic aerosol yields of 12-carbon alkanes. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1423-1439.	4.9	100
50	Role of ozone in SOA formation from alkane photooxidation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1733-1753.	4.9	43
51	Organic aerosol formation from the reactive uptake of isoprene epoxydiols (IEPOX) onto non-acidified inorganic seeds. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3497-3510.	4.9	201
52	Reactive Uptake and Photo-Fenton Oxidation of Glycolaldehyde in Aerosol Liquid Water. <i>Environmental Science & Technology</i> , 2013, 47, 4307-4316.	10.0	47
53	On the Mixing and Evaporation of Secondary Organic Aerosol Components. <i>Environmental Science & Technology</i> , 2013, 47, 6173-6180.	10.0	46
54	Observations of Sharp Oxalate Reductions in Stratocumulus Clouds at Variable Altitudes: Organic Acid and Metal Measurements During the 2011 E-PEACE Campaign. <i>Environmental Science & Technology</i> , 2013, 47, 7747-7756.	10.0	84

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55	Correction to Reactive Uptake and Photo-Fenton Oxidation of Glycolaldehyde in Aerosol Liquid Water. <i>Environmental Science & Technology</i> , 2013, 47, 10093-10093.	10.0	3
56	Secondary Organic Aerosol Coating Formation and Evaporation: Chamber Studies Using Black Carbon Seed Aerosol and the Single-Particle Soot Photometer. <i>Aerosol Science and Technology</i> , 2013, 47, 326-347.	3.1	42
57	Eastern Pacific Emitted Aerosol Cloud Experiment. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 709-729.	3.3	89
58	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8019-8043.	4.9	181
59	Hygroscopic properties of smoke-generated organic aerosol particles emitted in the marine atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9819-9835.	4.9	30
60	Characterisation and airborne deployment of a new counterflow virtual impactor inlet. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1259-1269.	3.1	68
61	Ship impacts on the marine atmosphere: insights into the contribution of shipping emissions to the properties of marine aerosol and clouds. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8439-8458.	4.9	75
62	Bioavailability of jarosite for stimulating acid mine drainage attenuation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 78, 65-76.	3.9	23