

Rachel E O'brien

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

839
citations

516710

16
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1404
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1280-1300.	3.5	140
2	Chemical evolution of atmospheric organic carbon over multiple generations of oxidation. <i>Nature Chemistry</i> , 2018, 10, 462-468.	13.6	92
3	Liquid-Liquid Phase Separation in Aerosol Particles: Imaging at the Nanometer Scale. <i>Environmental Science & Technology</i> , 2015, 49, 4995-5002.	10.0	83
4	Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. <i>CheM</i> , 2020, 6, 3203-3218.	11.7	70
5	Molecular characterization of organic aerosol using nanospray desorption/electrospray ionization mass spectrometry: CalNex 2010 field study. <i>Atmospheric Environment</i> , 2013, 68, 265-272.	4.1	61
6	Microspectroscopic imaging and characterization of individually identified ice nucleating particles from a case field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,365.	3.3	61
7	Physical properties of ambient and laboratory-generated secondary organic aerosol. <i>Geophysical Research Letters</i> , 2014, 41, 4347-4353.	4.0	53
8	Chemical imaging of ambient aerosol particles: Observational constraints on mixing state parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9591-9605.	3.3	49
9	Molecular characterization of S- and N-containing organic constituents in ambient aerosols by negative ion mode high-resolution Nanospray Desorption Electrospray Ionization Mass Spectrometry: CalNex 2010 field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,706.	3.3	41
10	Photolytic Aging of Secondary Organic Aerosol: Evidence for a Substantial Photo-Recalcitrant Fraction. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4003-4009.	4.6	31
11	Chemical Characterization of Isoprene- and Monoterpene-Derived Secondary Organic Aerosol Tracers in Remote Marine Aerosols over a Quarter Century. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 935-946.	2.7	27
12	Probing molecular associations of field-collected and laboratory-generated SOA with nano-DESI high-resolution mass spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1042-1051.	3.3	19
13	Infrared Ion Spectroscopy of Environmental Organic Mixtures: Probing the Composition of α -Pinene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2019, 53, 7604-7612.	10.0	19
14	Effects of Photolysis on the Chemical and Optical Properties of Secondary Organic Material Over Extended Time Scales. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1226-1236.	2.7	19
15	Glass surface evolution following gas adsorption and particle deposition from indoor cooking events as probed by microspectroscopic analysis. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1698-1709.	3.5	18
16	Fresh versus Photo-recalcitrant Secondary Organic Aerosol: Effects of Organic Mixtures on Aqueous Photodegradation of 4-Nitrophenol. <i>Environmental Science and Technology Letters</i> , 2020, 7, 248-253.	8.7	18
17	Ultrasonic nebulization for the elemental analysis of microgram-level samples with offline aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1659-1671.	3.1	15
18	Emerging investigator series: chemical and physical properties of organic mixtures on indoor surfaces during HOMEChem. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 559-568.	3.5	12

#	ARTICLE	IF	CITATIONS
19	UV/Vis and IRMPD Spectroscopic Analysis of the Absorption Properties of Methylglyoxal Brown Carbon. ACS Earth and Space Chemistry, 2021, 5, 910-919.	2.7	8
20	Molecular Insights into Dissolved Organic Matter in Natural Dew Water: Bioglime Films on Leaf Surfaces. ACS Earth and Space Chemistry, 2022, 6, 775-787.	2.7	3