

V Faye Mcneill

List of Publications by Year in descending order

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67
papers

3,076
citations

172457

29
h-index

168389

53
g-index

89
all docs

89
docs citations

89
times ranked

3413
citing authors

#	ARTICLE	IF	CITATIONS
1	The acidity of atmospheric particles and clouds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4809-4888.	4.9	327
2	Aqueous Organic Chemistry in the Atmosphere: Sources and Chemical Processing of Organic Aerosols. <i>Environmental Science & Technology</i> , 2015, 49, 1237-1244.	10.0	323
3	Aqueous-Phase Secondary Organic Aerosol and Organosulfate Formation in Atmospheric Aerosols: A Modeling Study. <i>Environmental Science & Technology</i> , 2012, 46, 8075-8081.	10.0	205
4	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , 2019, 10, 1046.	12.8	131
5	The Oxidation of Oleate in Submicron Aqueous Salt Aerosols: Evidence of a Surface Process. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1073-1083.	2.5	124
6	Glyoxal-Methylglyoxal Cross-Reactions in Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2010, 44, 6174-6182.	10.0	104
7	Surfactants from the gas phase may promote cloud droplet formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2723-2728.	7.1	102
8	Photochemical Aging of Light-Absorbing Secondary Organic Aerosol Material. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2987-2996.	2.5	95
9	Hydrogen chloride-induced surface disordering on ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9422-9427.	7.1	88
10	Simulating Aqueous-Phase Isoprene-Epoxydiol (IEPOX) Secondary Organic Aerosol Production During the 2013 Southern Oxidant and Aerosol Study (SOAS). <i>Environmental Science & Technology</i> , 2017, 51, 5026-5034.	10.0	86
11	Atmospheric Aerosols: Clouds, Chemistry, and Climate. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 427-444.	6.8	76
12	Fast Mixing Condensation Nucleus Counter: Application to Rapid Scanning Differential Mobility Analyzer Measurements. <i>Aerosol Science and Technology</i> , 2002, 36, 678-689.	3.1	75
13	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science & Technology</i> , 2017, 51, 2519-2528.	10.0	75
14	Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. <i>CheM</i> , 2020, 6, 3203-3218.	11.7	70
15	Ammonium Addition (and Aerosol pH) Has a Dramatic Impact on the Volatility and Yield of Glyoxal Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 255-262.	10.0	66
16	Surface-Active Organics in Atmospheric Aerosols. <i>Topics in Current Chemistry</i> , 2013, 339, 201-259.	4.0	64
17	Ozone Oxidation of Surface-Adsorbed Polycyclic Aromatic Hydrocarbons: Role of PAH-Surface Interaction. <i>Journal of the American Chemical Society</i> , 2010, 132, 15968-15975.	13.7	62
18	Acidity and the multiphase chemistry of atmospheric aqueous particles and clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13483-13536.	4.9	59

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37	Observation of Organic Molecules at the Aerosol Surface. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2294-2297.	4.6	21
38	Volatility of methylglyoxal cloud SOA formed through OH radical oxidation and droplet evaporation. <i>Atmospheric Environment</i> , 2016, 130, 145-152.	4.1	21
39	Room-level ventilation in schools and universities. <i>Atmospheric Environment: X</i> , 2022, 13, 100152.	1.4	21
40	Addressing the Global Air Pollution Crisis: Chemistry's Role. <i>Trends in Chemistry</i> , 2019, 1, 5-8.	8.5	18
41	Technical note: Updated parameterization of the reactive uptake of glyoxal and methylglyoxal by atmospheric aerosols and cloud droplets. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9823-9830.	4.9	17
42	Impact of Aerosol-Cloud Cycling on Aqueous Secondary Organic Aerosol Formation. <i>Atmosphere</i> , 2019, 10, 666.	2.3	17
43	Competitive Adsorption at the Air-Water Interface: A Second Harmonic Generation Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9701-9705.	3.1	16
44	Effect of Salt on the Adsorption Affinity of an Aromatic Carbonyl Molecule to the Air-Aqueous Interface: Insight for Aqueous Environmental Interfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18258-18262.	3.1	14
45	Nitric acid-induced surface disordering on ice. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10989.	2.8	12
46	High Pressure Inside Nanometer-Sized Particles Influences the Rate and Products of Chemical Reactions. <i>Environmental Science & Technology</i> , 2021, 55, 7786-7793.	10.0	12
47	Constraining the Impact of Bacteria on the Aqueous Atmospheric Chemistry of Small Organic Compounds. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1485-1491.	2.7	11
48	Opinion: The germicidal effect of ambient air (open-air factor) revisited. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13011-13018.	4.9	11
49	Airborne Transmission of SARS-CoV-2: Evidence and Implications for Engineering Controls. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022, 13, 123-140.	6.8	11
50	Modeling the surface tension of complex, reactive organic-inorganic mixtures. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10721-10732.	4.9	10
51	Impact of Environmental Conditions on Secondary Organic Aerosol Production from Photosensitized Humic Acid. <i>Environmental Science & Technology</i> , 2020, 54, 5385-5390.	10.0	10
52	COVID-19 and the Air We Breathe. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 674-675.	2.7	9
53	Box Model Intercomparison of Cloud Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	7
54	Heterogeneous Chemistry of CaCO ₃ Aerosols with HNO ₃ and HCl. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3886-3895.	2.5	6

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55	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	3.2	6
56	Surface Disordering and Film Formation on Ice Induced by Formaldehyde and Acetaldehyde. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29108-29116.	3.1	5
57	Organosulfates from Dark Aqueous Reactions of Isoprene-Derived Epoxydiols Under Cloud and Fog Conditions: Kinetics, Mechanism, and Effect of Reaction Environment on Regioselectivity of Sulfate Addition. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 474-486.	2.7	5
58	Virtual Issue in Atmospheric Chemistry Research. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5697-5699.	2.5	3
59	Heterogeneous Reactivity of HCl on CaCO ₃ Aerosols at Stratospheric Temperature. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1896-1901.	2.7	3
60	A Tribute to Mario Molina. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4277-4278.	2.5	2
61	IUPAC in the (real) clouds. <i>Chemistry International</i> , 2018, 40, 10-13.	0.3	1
62	Mario Molina, 1943â€“2020. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10921-10922.	2.5	1
63	Kinetics of alkaline hydrolysis of synthetic organic esters. <i>International Journal of Chemical Kinetics</i> , 2022, 54, 218-222.	1.6	1
64	Virtual Issue in Atmospheric Chemistry Research. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 958-960.	2.7	0
65	Virtual Special Issue: New Advances in Organic Aerosol Chemistry. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 491-494.	2.7	0
66	Particulate Matter Air Pollution in Kolkata, India: Trends and application of Low Cost Sensors. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
67	Mario Molina Memorial Special Issue. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1640-1643.	2.7	0