V Faye Mcneill

List of Publications by Year in descending order

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67	3,076	29 h-index	53
papers	citations		g-index
89	89	89	3413 citing authors
all docs	docs citations	times ranked	

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

#	Article	IF	Citations
19	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VII – Criegee intermediates. Atmospheric Chemistry and Physics, 2020, 20, 13497-13519.	4.9	55
20	Interaction of Hydrogen Chloride with Ice Surfaces:  The Effects of Grain Size, Surface Roughness, and Surface Disorder. Journal of Physical Chemistry A, 2007, 111, 6274-6284.	2.5	53
21	Organic Peroxides and Sulfur Dioxide in Aerosol: Source of Particulate Sulfate. Environmental Science & Environmental Science	10.0	53
22	Aqueous aerosol SOA formation: impact on aerosol physical properties. Faraday Discussions, 2013, 165, 357.	3.2	49
23	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9849-9861.	3.3	48
24	Effect of Inorganic Salts on the Volatility of Organic Acids. Environmental Science & Emp; Technology, 2014, 48, 13718-13726.	10.0	38
25	Southeast Atmosphere Studies: learning from model-observation syntheses. Atmospheric Chemistry and Physics, 2018, 18, 2615-2651.	4.9	36
26	simpleGAMMA v1.0 – a reduced model of secondary organic aerosol formation in the aqueous aerosol phase (aaSOA). Geoscientific Model Development, 2015, 8, 1821-1829.	3.6	35
27	Insights into the characteristics and sources of primary and secondary organic carbon: High time resolution observation in urban Shanghai. Environmental Pollution, 2018, 233, 1177-1187.	7.5	35
28	Model Analysis of Secondary Organic Aerosol Formation by Glyoxal in Laboratory Studies: The Case for Photoenhanced Chemistry. Environmental Science & Environmental Science & 2014, 48, 11919-11925.	10.0	32
29	Self-limited uptake of α-pinene oxide to acidic aerosol: the effects of liquid–liquid phase separation and implications for the formation of secondary organic aerosol and organosulfates from epoxides. Atmospheric Chemistry and Physics, 2013, 13, 8255-8263.	4.9	31
30	Modeling Photosensitized Secondary Organic Aerosol Formation in Laboratory and Ambient Aerosols. Environmental Science & Envir	10.0	31
31	Evaluated kinetic and photochemical data for atmospheric chemistry: volume VIII – gas-phase reactions of organic species with four, or more, carbon atoms ( ≥  C _{4<td>mµp9gt;).</td><td>30</td>}	mµp9gt;).	30
32	Organic matrix effects on the formation of light-absorbing compounds from \hat{l}_{\pm} -dicarbonyls in aqueous salt solution. Environmental Sciences: Processes and Impacts, 2014, 16, 741-747.	3.5	28
33	Surface tension depression by low-solubility organic material in aqueous aerosol mimics. Atmospheric Environment, 2012, 54, 490-495.	4.1	25
34	Aerosol Brown Carbon from Dark Reactions of Syringol in Aqueous Aerosol Mimics. ACS Earth and Space Chemistry, 2018, 2, 608-617.	2.7	24
35	Modeling Secondary Organic Aerosol Production from Photosensitized Humic-like Substances (HULIS). Environmental Science and Technology Letters, 2018, 5, 255-259.	8.7	24
36	Photoactivated Production of Secondary Organic Species from Isoprene in Aqueous Systems. Journal of Physical Chemistry A, 2016, 120, 9042-9048.	2.5	23

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37	Observation of Organic Molecules at the Aerosol Surface. Journal of Physical Chemistry Letters, 2016, 7, 2294-2297.	4.6	21
38	Volatility of methylglyoxal cloud SOA formed through OH radical oxidation and droplet evaporation. Atmospheric Environment, 2016, 130, 145-152.	4.1	21
39	Room-level ventilation in schools and universities. Atmospheric Environment: X, 2022, 13, 100152.	1.4	21
40	Addressing the Global Air Pollution Crisis: Chemistry's Role. Trends in Chemistry, 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. Atmospheric Chemistry and Physics, 2018, 18, 9823-9830.	4.9	17
42	Impact of Aerosol-Cloud Cycling on Aqueous Secondary Organic Aerosol Formation. Atmosphere, 2019, 10, 666.	2.3	17
43	Competitive Adsorption at the Air–Water Interface: A Second Harmonic Generation Study. Journal of Physical Chemistry C, 2011, 115, 9701-9705.	3.1	16
44	Effect of Salt on the Adsorption Affinity of an Aromatic Carbonyl Molecule to the Airâ-'Aqueous Interface: Insight for Aqueous Environmental Interfaces. Journal of Physical Chemistry C, 2010, 114, 18258-18262.	3.1	14
45	Nitric acid-induced surface disordering on ice. Physical Chemistry Chemical Physics, 2013, 15, 10989.	2.8	12
46	High Pressure Inside Nanometer-Sized Particles Influences the Rate and Products of Chemical Reactions. Environmental Science &	10.0	12
47	Constraining the Impact of Bacteria on the Aqueous Atmospheric Chemistry of Small Organic Compounds. ACS Earth and Space Chemistry, 2019, 3, 1485-1491.	2.7	11
48	Opinion: The germicidal effect of ambient air (open-air factor) revisited. Atmospheric Chemistry and Physics, 2021, 21, 13011-13018.	4.9	11
49	Airborne Transmission of SARS-CoV-2: Evidence and Implications for Engineering Controls. Annual Review of Chemical and Biomolecular Engineering, 2022, 13, 123-140.	6.8	11
50	Modeling the surface tension of complex, reactive organic–inorganic mixtures. Atmospheric Chemistry and Physics, 2013, 13, 10721-10732.	4.9	10
51	Impact of Environmental Conditions on Secondary Organic Aerosol Production from Photosensitized Humic Acid. Environmental Science & Environmental Scie	10.0	10
52	COVID-19 and the Air We Breathe. ACS Earth and Space Chemistry, 2020, 4, 674-675.	2.7	9
53	Box Model Intercomparison of Cloud Chemistry. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	7
54	Heterogeneous Chemistry of CaCO ₃ Aerosols with HNO ₃ and HCl. Journal of Physical Chemistry A, 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. Elementa, 2019, 7, .	3.2	6
56	Surface Disordering and Film Formation on Ice Induced by Formaldehyde and Acetaldehyde. Journal of Physical Chemistry C, 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. ACS Earth and Space Chemistry, 2021, 5, 474-486.	2.7	5
58	Virtual Issue in Atmospheric Chemistry Research. Journal of Physical Chemistry A, 2020, 124, 5697-5699.	2.5	3
59	Heterogeneous Reactivity of HCl on CaCO ₃ Aerosols at Stratospheric Temperature. ACS Earth and Space Chemistry, 2021, 5, 1896-1901.	2.7	3
60	A Tribute to Mario Molina. Journal of Physical Chemistry A, 2015, 119, 4277-4278.	2.5	2
61	IUPAC in the (real) clouds. Chemistry International, 2018, 40, 10-13.	0.3	1
62	Mario Molina, 1943–2020. Journal of Physical Chemistry A, 2020, 124, 10921-10922.	2.5	1
63	Kinetics of alkaline hydrolysis of synthetic organic esters. International Journal of Chemical Kinetics, 2022, 54, 218-222.	1.6	1
64	Virtual Issue in Atmospheric Chemistry Research. ACS Earth and Space Chemistry, 2020, 4, 958-960.	2.7	0
65	Virtual Special Issue: New Advances in Organic Aerosol Chemistry. ACS Earth and Space Chemistry, 2020, 4, 491-494.	2.7	0
66	Particulate Matter Air Pollution in Kolkata, India: Trends and application of Low Cost Sensors. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
67	Mario Molina Memorial Special Issue. ACS Earth and Space Chemistry, 2022, 6, 1640-1643.	2.7	0