

Kim Prather

List of Publications by Year in descending order

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265
papers

25,817
citations

4942

84
h-index

8835

145
g-index

299
all docs

299
docs citations

299
times ranked

16656
citing authors

#	ARTICLE	IF	CITATIONS
1	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. <i>Journal of Geophysical Research</i> , 2001, 106, 28371-28398.	3.3	1,199
2	Postsynthetic Ligand and Cation Exchange in Robust Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2012, 134, 18082-18088.	6.6	702
3	Airborne transmission of respiratory viruses. <i>Science</i> , 2021, 373, .	6.0	693
4	The Indian Ocean Experiment: Widespread Air Pollution from South and Southeast Asia. <i>Science</i> , 2001, 291, 1031-1036.	6.0	687
5	Reducing transmission of SARS-CoV-2. <i>Science</i> , 2020, 368, 1422-1424.	6.0	675
6	Ten scientific reasons in support of airborne transmission of SARS-CoV-2. <i>Lancet</i> , The, 2021, 397, 1603-1605.	6.3	657
7	Real-Time Analysis of Individual Atmospheric Aerosol Particles: Design and Performance of a Portable ATOFMS. <i>Analytical Chemistry</i> , 1997, 69, 4083-4091.	3.2	494
8	Dust and Biological Aerosols from the Sahara and Asia Influence Precipitation in the Western U.S.. <i>Science</i> , 2013, 339, 1572-1578.	6.0	482
9	Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5781-5790.	3.3	479
10	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7550-7555.	3.3	439
11	Direct observations of the atmospheric processing of Asian mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1213-1236.	1.9	424
12	In situ detection of biological particles in cloud ice-crystals. <i>Nature Geoscience</i> , 2009, 2, 398-401.	5.4	406
13	Postsynthetic ligand exchange as a route to functionalization of inert metal-organic frameworks. <i>Chemical Science</i> , 2012, 3, 126-130.	3.7	403
14	In-situ measurements of the mixing state and optical properties of soot with implications for radiative forcing estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11872-11877.	3.3	391
15	Direct Observation of Heterogeneous Chemistry in the Atmosphere. <i>Science</i> , 1998, 279, 1184-1187.	6.0	340
16	Classification of Single Particles Analyzed by ATOFMS Using an Artificial Neural Network, ART-2A. <i>Analytical Chemistry</i> , 1999, 71, 860-865.	3.2	326
17	Sea spray aerosol as a unique source of ice nucleating particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5797-5803.	3.3	323
18	Real-time characterization of individual aerosol particles using time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 1403-1407.	3.2	296

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19	Chemistry and Related Properties of Freshly Emitted Sea Spray Aerosol. <i>Chemical Reviews</i> , 2015, 115, 4383-4399.	23.0	289
20	Sources and properties of Amazonian aerosol particles. <i>Reviews of Geophysics</i> , 2010, 48, .	9.0	283
21	Effect of chemical mixing state on the hygroscopicity and cloud nucleation properties of calcium mineral dust particles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3303-3316.	1.9	268
22	Measurement of ambient aerosols in northern Mexico City by single particle mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4499-4516.	1.9	257
23	Real-Time Measurement of Correlated Size and Composition Profiles of Individual Atmospheric Aerosol Particles. <i>Environmental Science & Technology</i> , 1996, 30, 2667-2680.	4.6	243
24	Real-time single particle mass spectrometry: A historical review of a quarter century of the chemical analysis of aerosols. <i>Mass Spectrometry Reviews</i> , 2000, 19, 248-274.	2.8	235
25	Constraining the atmospheric limb of the plastic cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	232
26	Size and Chemical Characterization of Individual Particles Resulting from Biomass Burning of Local Southern California Species. <i>Environmental Science & Technology</i> , 1999, 33, 3068-3076.	4.6	221
27	Airborne transmission of SARS-CoV-2. <i>Science</i> , 2020, 370, 303-304.	6.0	215
28	Formation of Aerosol Particles from Reactions of Secondary and Tertiary Alkylamines:Â Characterization by Aerosol Time-of-Flight Mass Spectrometry. <i>Environmental Science & Technology</i> , 2001, 35, 3130-3138.	4.6	214
29	Tandem Postsynthetic Metal Ion and Ligand Exchange in Zeolitic Imidazolate Frameworks. <i>Inorganic Chemistry</i> , 2013, 52, 4011-4016.	1.9	209
30	Mass Spectrometry of Aerosols. <i>Chemical Reviews</i> , 1999, 99, 3007-3036.	23.0	206
31	Mass spectrometry of atmospheric aerosolsâ€”Recent developments and applications. Part II: Onâ€line mass spectrometry techniques. <i>Mass Spectrometry Reviews</i> , 2012, 31, 17-48.	2.8	204
32	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5830-5866.	1.2	199
33	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , 2021, 372, 689-691.	6.0	192
34	Characterization of Asian Dust during ACE-Asia. <i>Global and Planetary Change</i> , 2006, 52, 23-56.	1.6	190
35	Interpretation of Mass Spectra from Organic Compounds in Aerosol Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 3553-3562.	3.2	183
36	Relative Sensitivity Factors for Alkali Metal and Ammonium Cations in Single-Particle Aerosol Time-of-Flight Mass Spectra. <i>Analytical Chemistry</i> , 2000, 72, 416-422.	3.2	178

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37	Recent Advances in Our Understanding of Atmospheric Chemistry and Climate Made Possible by On-Line Aerosol Analysis Instrumentation. <i>Analytical Chemistry</i> , 2005, 77, 3861-3886.	3.2	175
38	Size-Dependent Changes in Sea Spray Aerosol Composition and Properties with Different Seawater Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 5603-5612.	4.6	175
39	Microbial Control of Sea Spray Aerosol Composition: A Tale of Two Blooms. <i>ACS Central Science</i> , 2015, 1, 124-131.	5.3	172
40	The influence of chemical composition and mixing state of Los Angeles urban aerosol on CCN number and cloud properties. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5649-5667.	1.9	171
41	Investigations of the Diurnal Cycle and Mixing State of Oxalic Acid in Individual Particles in Asian Aerosol Outflow. <i>Environmental Science & Technology</i> , 2007, 41, 8062-8069.	4.6	167
42	Development and Characterization of an Aerosol Time-of-Flight Mass Spectrometer with Increased Detection Efficiency. <i>Analytical Chemistry</i> , 2004, 76, 712-719.	3.2	165
43	Real-Time, Single-Particle Measurements of Oligomers in Aged Ambient Aerosol Particles. <i>Environmental Science & Technology</i> , 2007, 41, 5439-5446.	4.6	162
44	Flight-based chemical characterization of biomass burning aerosols within two prescribed burn smoke plumes. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12549-12565.	1.9	154
45	The role of jet and film drops in controlling the mixing state of submicron sea spray aerosol particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6978-6983.	3.3	147
46	Analysis of Atmospheric Aerosols. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 485-514.	2.8	145
47	Characterization of Aerosols Containing Zn, Pb, and Cl from an Industrial Region of Mexico City. <i>Environmental Science & Technology</i> , 2008, 42, 7091-7097.	4.6	143
48	Analysis of Organic Anionic Surfactants in Fine and Coarse Fractions of Freshly Emitted Sea Spray Aerosol. <i>Environmental Science & Technology</i> , 2016, 50, 2477-2486.	4.6	143
49	Tools for the Microbiome: Nano and Beyond. <i>ACS Nano</i> , 2016, 10, 6-37.	7.3	137
50	Impact of Emissions from the Los Angeles Port Region on San Diego Air Quality during Regional Transport Events. <i>Environmental Science & Technology</i> , 2009, 43, 3500-3506.	4.6	136
51	Relating aerosol absorption due to soot, organic carbon, and dust to emission sources determined from in-situ chemical measurements. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9337-9350.	1.9	136
52	Characterization of the Single Particle Mixing State of Individual Ship Plume Events Measured at the Port of Los Angeles. <i>Environmental Science & Technology</i> , 2010, 44, 1954-1961.	4.6	131
53	Determination of Single Particle Mass Spectral Signatures from Light-Duty Vehicle Emissions. <i>Environmental Science & Technology</i> , 2005, 39, 4569-4580.	4.6	130
54	Single Particle Characterization of Ultrafine and Accumulation Mode Particles from Heavy Duty Diesel Vehicles Using Aerosol Time-of-Flight Mass Spectrometry. <i>Environmental Science & Technology</i> , 2006, 40, 3912-3921.	4.6	129

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55	A Marine Aerosol Reference Tank system as a breaking wave analogue for the production of foam and sea-spray aerosols. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1085-1094.	1.2	129
56	Seasonal Volatility Dependence of Ambient Particle Phase Amines. <i>Environmental Science & Technology</i> , 2009, 43, 5276-5281.	4.6	127
57	Improvements to an Empirical Parameterization of Heterogeneous Ice Nucleation and Its Comparison with Observations. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 378-409.	0.6	127
58	Assessment of the relative importance of atmospheric aging on CCN activity derived from field observations. <i>Atmospheric Environment</i> , 2008, 42, 3130-3142.	1.9	125
59	Measurements of Isoprene-Derived Organosulfates in Ambient Aerosols by Aerosol Time-of-Flight Mass Spectrometry - Part 1: Single Particle Atmospheric Observations in Atlanta. <i>Environmental Science & Technology</i> , 2011, 45, 5105-5111.	4.6	121
60	Microplastics and nanoplastics in the marine-atmosphere environment. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 393-405.	12.2	121
61	Real-Time Monitoring of Pyrotechnically Derived Aerosol Particles in the Troposphere. <i>Analytical Chemistry</i> , 1997, 69, 1808-1814.	3.2	119
62	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021, 12, 3832.	5.8	119
63	Mineral dust is a sink for chlorine in the marine boundary layer. <i>Atmospheric Environment</i> , 2007, 41, 7166-7179.	1.9	113
64	Molecular Diversity of Sea Spray Aerosol Particles: Impact of Ocean Biology on Particle Composition and Hygroscopicity. <i>CheM</i> , 2017, 2, 655-667.	5.8	111
65	Coupling two-step laser desorption/ionization with aerosol time-of-flight mass spectrometry for the analysis of individual organic particles. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1068-1073.	1.2	110
66	Particle Detection Efficiencies of Aerosol Time of Flight Mass Spectrometers under Ambient Sampling Conditions. <i>Environmental Science & Technology</i> , 2000, 34, 211-217.	4.6	109
67	Characterization of carbonaceous aerosols outflow from India and Arabia: Biomass/biofuel burning and fossil fuel combustion. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	109
68	Raman microspectroscopy and vibrational sum frequency generation spectroscopy as probes of the bulk and surface compositions of size-resolved sea spray aerosol particles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6206.	1.3	103
69	Taxon-specific aerosolization of bacteria and viruses in an experimental ocean-atmosphere mesocosm. <i>Nature Communications</i> , 2018, 9, 2017.	5.8	103
70	Development and Characterization of an Aircraft Aerosol Time-of-Flight Mass Spectrometer. <i>Analytical Chemistry</i> , 2009, 81, 1792-1800.	3.2	102
71	Evolution of Atmospheric Particles along Trajectories Crossing the Los Angeles Basin. <i>Environmental Science & Technology</i> , 2000, 34, 3058-3068.	4.6	101
72	Aerosol impacts on California winter clouds and precipitation during CalWater 2011: local pollution versus long-range transported dust. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 81-101.	1.9	101

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73	Comparison of oil and fuel particle chemical signatures with particle emissions from heavy and light duty vehicles. <i>Atmospheric Environment</i> , 2006, 40, 5224-5235.	1.9	99
74	MALDI Matrices for Biomolecular Analysis Based on Functionalized Carbon Nanomaterials. <i>Analytical Chemistry</i> , 2004, 76, 6734-6742.	3.2	96
75	Ice Initiation by Aerosol Particles: Measured and Predicted Ice Nuclei Concentrations versus Measured Ice Crystal Concentrations in an Orographic Wave Cloud. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2417-2436.	0.6	96
76	Aircraft measurements of vertical profiles of aerosol mixing states. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	96
77	Air Quality Impact and Physicochemical Aging of Biomass Burning Aerosols during the 2007 San Diego Wildfires. <i>Environmental Science & Technology</i> , 2013, 47, 7633-7643.	4.6	96
78	Direct aerosol chemical composition measurements to evaluate the physicochemical differences between controlled sea spray aerosol generation schemes. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3667-3683.	1.2	95
79	Marine boundary layer dust and pollutant transport associated with the passage of a frontal system over eastern Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	94
80	Detection of Asian dust in California orographic precipitation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	94
81	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7647-7687.	1.9	94
82	Size and Composition Distribution of Atmospheric Particles in Southern California. <i>Environmental Science & Technology</i> , 1999, 33, 3506-3515.	4.6	93
83	Single particle analysis of suspended soil dust from Southern California. <i>Atmospheric Environment</i> , 2000, 34, 1811-1820.	1.9	93
84	A Dynamic Link between Ice Nucleating Particles Released in Nascent Sea Spray Aerosol and Oceanic Biological Activity during Two Mesocosm Experiments. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 151-166.	0.6	93
85	A comparison of particle mass spectrometers during the 1999 Atlanta Supersite Project. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	90
86	Simultaneous Measurement of the Effective Density and Chemical Composition of Ambient Aerosol Particles. <i>Environmental Science & Technology</i> , 2007, 41, 1303-1309.	4.6	90
87	Mass spectrometry of atmospheric aerosols—Recent developments and applications. Part I: Offline mass spectrometry techniques. <i>Mass Spectrometry Reviews</i> , 2012, 31, 1-16.	2.8	90
88	Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. <i>Environmental Science & Technology</i> , 2016, 50, 11511-11520.	4.6	90
89	Inside versus Outside: Ion Redistribution in Nitric Acid Reacted Sea Spray Aerosol Particles as Determined by Single Particle Analysis. <i>Journal of the American Chemical Society</i> , 2013, 135, 14528-14531.	6.6	89
90	Using ATOFMS to Determine OC/EC Mass Fractions in Particles. <i>Aerosol Science and Technology</i> , 2006, 40, 585-594.	1.5	88

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91	CalWater Field Studies Designed to Quantify the Roles of Atmospheric Rivers and Aerosols in Modulating U.S. West Coast Precipitation in a Changing Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1209-1228.	1.7	87
92	Aerosol time-of-flight mass spectrometry during the Atlanta Supersite Experiment: 1. Measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	85
93	Comparison of Two Methods for Obtaining Quantitative Mass Concentrations from Aerosol Time-of-Flight Mass Spectrometry Measurements. <i>Analytical Chemistry</i> , 2006, 78, 6169-6178.	3.2	84
94	Impact of marine biogeochemistry on the chemical mixing state and cloud forming ability of nascent sea spray aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8553-8565.	1.2	84
95	Sea Spray Aerosol: The Chemical Link between the Oceans, Atmosphere, and Climate. <i>Accounts of Chemical Research</i> , 2017, 50, 599-604.	7.6	84
96	Real-Time, Single-Particle Volatility, Size, and Chemical Composition Measurements of Aged Urban Aerosols. <i>Environmental Science & Technology</i> , 2009, 43, 8276-8282.	4.6	83
97	Real-Time Detection and Mixing State of Methanesulfonate in Single Particles at an Inland Urban Location during a Phytoplankton Bloom. <i>Environmental Science & Technology</i> , 2010, 44, 1566-1572.	4.6	83
98	On-Line Characterization of Individual Particles from Automobile Emissions. <i>Environmental Science & Technology</i> , 1997, 31, 3074-3080.	4.6	82
99	Timescale for hygroscopic conversion of calcite mineral particles through heterogeneous reaction with nitric acid. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7826.	1.3	82
100	Continuous measurements of size-resolved particle chemistry during INDOEX-Intensive Field Phase 99. <i>Journal of Geophysical Research</i> , 2001, 106, 28607-28627.	3.3	80
101	Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	80
102	Measurements of Isoprene-Derived Organosulfates in Ambient Aerosols by Aerosol Time-of-Flight Mass Spectrometryâ€”Part 2: Temporal Variability and Formation Mechanisms. <i>Environmental Science & Technology</i> , 2011, 45, 8648-8655.	4.6	79
103	Composition and hygroscopicity of the Los Angeles Aerosol: CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3016-3036.	1.2	79
104	Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. <i>ACS Central Science</i> , 2016, 2, 40-47.	5.3	74
105	Acidity across the interface from the ocean surface to sea spray aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	73
106	Hydroxymethanesulfonate as a tracer for fog processing of individual aerosol particles. <i>Atmospheric Environment</i> , 2003, 37, 1033-1043.	1.9	72
107	Determination of single particle mass spectral signatures from heavy-duty diesel vehicle emissions for PM2.5 source apportionment. <i>Atmospheric Environment</i> , 2007, 41, 3841-3852.	1.9	71
108	Postsynthetic modification at orthogonal reactive sites on mixed, bifunctional metalâ€”organic frameworks. <i>Chemical Communications</i> , 2011, 47, 7629.	2.2	71

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109	Seasonal comparisons of single-particle chemical mixing state in Riverside, CA. <i>Atmospheric Environment</i> , 2012, 59, 587-596.	1.9	71
110	Using mass spectral source signatures to apportion exhaust particles from gasoline and diesel powered vehicles in a freeway study using UF-ATOFMS. <i>Atmospheric Environment</i> , 2008, 42, 568-581.	1.9	70
111	Single Particle Characterization of Automobile and Diesel Truck Emissions in the Caldecott Tunnel. <i>Aerosol Science and Technology</i> , 2000, 32, 152-163.	1.5	69
112	Aerosol time-of-flight mass spectrometry data analysis: A benchmark of clustering algorithms. <i>Analytica Chimica Acta</i> , 2007, 585, 38-54.	2.6	69
113	Closure between aerosol particles and cloud condensation nuclei at Kaashidhoo Climate Observatory. <i>Journal of Geophysical Research</i> , 2001, 106, 28711-28718.	3.3	68
114	Chemically segregated optical and microphysical properties of ambient aerosols measured in a single-particle mass spectrometer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	68
115	A Mesocosm Double Feature: Insights into the Chemical Makeup of Marine Ice Nucleating Particles. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 2405-2423.	0.6	67
116	Aerodynamic Particle Sizing versus Light Scattering Intensity Measurement as Methods for Real-Time Particle Sizing Coupled with Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 1996, 68, 230-234.	3.2	66
117	A Field-Based Approach for Determining ATOFMS Instrument Sensitivities to Ammonium and Nitrate. <i>Environmental Science & Technology</i> , 2002, 36, 4868-4879.	4.6	66
118	Heterogeneous Reactivity of Nitric Acid with Nascent Sea Spray Aerosol: Large Differences Observed between and within Individual Particles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2493-2500.	2.1	66
119	Ambient single particle analysis in Riverside, California by aerosol time-of-flight mass spectrometry during the SCOS97-NARSTO. <i>Atmospheric Environment</i> , 2003, 37, 239-258.	1.9	64
120	Direct NO_2 reactivity measurements at a polluted coastal site. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2959-2968.	1.9	64
121	The Impact of Aerosol Particle Mixing State on the Hygroscopicity of Sea Spray Aerosol. <i>ACS Central Science</i> , 2015, 1, 132-141.	5.3	64
122	Aerosol time-of-flight mass spectrometry during the Atlanta Supersite Experiment: 2. Scaling procedures. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	63
123	Unique ocean-derived particles serve as a proxy for changes in ocean chemistry. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	62
124	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8860-8870.	1.1	62
125	Comparison of the mixing state of long-range transported Asian and African mineral dust. <i>Atmospheric Environment</i> , 2015, 115, 19-25.	1.9	62
126	Ice in Clouds Experiment—Layer Clouds. Part II: Testing Characteristics of Heterogeneous Ice Formation in Lee Wave Clouds. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1066-1079.	0.6	61

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127	Real-Time Measurement Capabilities Using Aerosol Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 3540-3542.	3.2	60
128	Measurements of Aerosol Chemistry during New Particle Formation Events at a Remote Rural Mountain Site. <i>Environmental Science & Technology</i> , 2011, 45, 8208-8216.	4.6	60
129	Detection and phylogenetic analysis of coastal bioaerosols using culture dependent and independent techniques. <i>Biogeosciences</i> , 2011, 8, 301-309.	1.3	60
130	On the Role of Particle Inorganic Mixing State in the Reactive Uptake of N_2O_5 to Ambient Aerosol Particles. <i>Environmental Science & Technology</i> , 2014, 48, 1618-1627.	4.6	58
131	Transition Metal Associations with Primary Biological Particles in Sea Spray Aerosol Generated in a Wave Channel. <i>Environmental Science & Technology</i> , 2014, 48, 1324-1333.	4.6	58
132	Effects of Meteorological Conditions on Aerosol Composition and Mixing State in Bakersfield, CA. <i>Environmental Science & Technology</i> , 2002, 36, 2345-2353.	4.6	57
133	The mixing state of carbonaceous aerosol particles in northern and southern California measured during CARES and CalNex 2010. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10989-11002.	1.9	57
134	Real-time measurements of the chemical composition of size-resolved particles during a Santa Ana wind episode, California USA. <i>Atmospheric Environment</i> , 2001, 35, 3229-3240.	1.9	55
135	Observation of playa salts as nuclei in orographic wave clouds. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	55
136	Airborne Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): What We Know. <i>Clinical Infectious Diseases</i> , 2021, 73, 1924-1926.	2.9	55
137	Relationships of Biomass-Burning Aerosols to Ice in Orographic Wave Clouds. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2437-2450.	0.6	54
138	Source Apportionment of Fine Particulate Matter by Clustering Single-Particle Data: Tests of Receptor Model Accuracy. <i>Environmental Science & Technology</i> , 2001, 35, 2060-2072.	4.6	52
139	Impact of biomass emissions on particle chemistry during the California Regional Particulate Air Quality Study. <i>International Journal of Mass Spectrometry</i> , 2006, 258, 142-150.	0.7	52
140	Phytoplankton blooms weakly influence the cloud forming ability of sea spray aerosol. <i>Geophysical Research Letters</i> , 2016, 43, 9975-9983.	1.5	52
141	Variations in the Size and Chemical Composition of Nitrate-Containing Particles in Riverside, CA. <i>Aerosol Science and Technology</i> , 2000, 33, 71-86.	1.5	51
142	Improvements in ion signal reproducibility obtained using a homogeneous laser beam for on-line laser desorption/ionization of single particles. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1525-1533.	0.7	51
143	Effect of organic compounds on cloud condensation nuclei (CCN) activity of sea spray aerosol produced by bubble bursting. <i>Atmospheric Environment</i> , 2011, 45, 7462-7469.	1.9	50
144	Size-Resolved Sea Spray Aerosol Particles Studied by Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6589-6601.	1.1	50

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145	Trace gas and particulate emissions from the 2003 southern California wildfires. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	49
146	In Situ Chemical Characterization of Aged Biomass-Burning Aerosols Impacting Cold Wave Clouds. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2451-2468.	0.6	48
147	Extending ATOFMS Measurements To Include Refractive Index and Density. <i>Analytical Chemistry</i> , 2005, 77, 6535-6541.	3.2	46
148	School reopening without robust COVID-19 mitigation risks accelerating the pandemic. <i>Lancet</i> , The, 2021, 397, 1177-1178.	6.3	46
149	Quantification of ATOFMS Data by Multivariate Methods. <i>Analytical Chemistry</i> , 2001, 73, 3535-3541.	3.2	45
150	Size-resolved chemical composition of aerosol particles during a monsoonal transition period over the Indian Ocean. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	45
151	Recent Advances and Some Remaining Challenges in Analytical Chemistry of the Atmosphere. <i>Analytical Chemistry</i> , 2003, 75, 2929-2940.	3.2	44
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