

Kim Prather

List of Publications by Citations

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271
papers

20,142
citations

78
h-index

134
g-index

299
ext. papers

23,212
ext. citations

9.1
avg, IF

7.07
L-index

#	Paper	IF	Citations
271	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		1041
270	Postsynthetic ligand and cation exchange in robust metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18082-8	16.4	606
269	The Indian Ocean experiment: widespread air pollution from South and Southeast Asia. <i>Science</i> , 2001 , 291, 1031-6	33.3	599
268	Real-Time Analysis of Individual Atmospheric Aerosol Particles: Design and Performance of a Portable ATOFMS. <i>Analytical Chemistry</i> , 1997 , 69, 4083-4091	7.8	447
267	Reducing transmission of SARS-CoV-2. <i>Science</i> , 2020 , 368, 1422-1424	33.3	441
266	Dust and biological aerosols from the Sahara and Asia influence precipitation in the western U.S. <i>Science</i> , 2013 , 339, 1572-8	33.3	393
265	Direct observations of the atmospheric processing of Asian mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1213-1236	6.8	361
264	Postsynthetic ligand exchange as a route to functionalization of inert metal-organic frameworks. <i>Chemical Science</i> , 2012 , 3, 126-130	9.4	357
263	In situ detection of biological particles in cloud ice-crystals. <i>Nature Geoscience</i> , 2009 , 2, 398-401	18.3	348
262	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, 7550-5	11.5	345
261	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, 11872-7	11.5	342
260	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, 5781-90	11.5	314
259	Direct observation of heterogeneous chemistry in the atmosphere. <i>Science</i> , 1998 , 279, 1184-7	33.3	308
258	Ten scientific reasons in support of airborne transmission of SARS-CoV-2. <i>Lancet, The</i> , 2021 , 397, 1603-1605	16.4	294
257	Classification of Single Particles Analyzed by ATOFMS Using an Artificial Neural Network, ART-2A. <i>Analytical Chemistry</i> , 1999 , 71, 860-865	7.8	273
256	Real-time characterization of individual aerosol particles using time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 1994 , 66, 1403-1407	7.8	259
255	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, 5797-803	11.5	255

254	Sources and properties of Amazonian aerosol particles. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	237
253	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	6.8	223
252	Chemistry and related properties of freshly emitted sea spray aerosol. <i>Chemical Reviews</i> , 2015 , 115, 4383-4399	22.0	220
251	Measurement of ambient aerosols in northern Mexico City by single particle mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 4499-4516	6.8	217
250	Real-Time Measurement of Correlated Size and Composition Profiles of Individual Atmospheric Aerosol Particles. <i>Environmental Science & Technology</i> , 1996 , 30, 2667-2680	10.3	216
249	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, 248-74	11	209
248	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	10.3	190
247	Mass spectrometry of aerosols. <i>Chemical Reviews</i> , 1999 , 99, 3007-36	68.1	188
246	Formation of aerosol particles from reactions of secondary and tertiary alkylamines: characterization by aerosol time-of-flight mass spectrometry. <i>Environmental Science & Technology</i> , 2001 , 35, 3130-8	10.3	186
245	Tandem postsynthetic metal ion and ligand exchange in zeolitic imidazolate frameworks. <i>Inorganic Chemistry</i> , 2013 , 52, 4011-6	5.1	184
244	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	4.4	178
243	Characterization of Asian Dust during ACE-Asia. <i>Global and Planetary Change</i> , 2006 , 52, 23-56	4.2	170
242	Recent advances in our understanding of atmospheric chemistry and climate made possible by on-line aerosol analysis instrumentation. <i>Analytical Chemistry</i> , 2005 , 77, 3861-85	7.8	161
241	Airborne transmission of respiratory viruses. <i>Science</i> , 2021 , 373,	33.3	160
240	Relative sensitivity factors for alkali metal and ammonium cations in single-particle aerosol time-of-flight mass spectra. <i>Analytical Chemistry</i> , 2000 , 72, 416-22	7.8	155
239	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	6.8	151
238	Interpretation of mass spectra from organic compounds in aerosol time-of-flight mass spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 3553-62	7.8	151
237	Mass spectrometry of atmospheric aerosols--recent developments and applications. Part II: On-line mass spectrometry techniques. <i>Mass Spectrometry Reviews</i> , 2012 , 31, 17-48	11	149

236	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, 8062-9	10.3	149
235	Development and characterization of an aerosol time-of-flight mass spectrometer with increased detection efficiency. <i>Analytical Chemistry</i> , 2004 , 76, 712-9	7.8	149
234	Real-time, single-particle measurements of oligomers in aged ambient aerosol particles. <i>Environmental Science & Technology</i> , 2007 , 41, 5439-46	10.3	141
233	Size-dependent changes in sea spray aerosol composition and properties with different seawater conditions. <i>Environmental Science & Technology</i> , 2013 , 47, 5603-12	10.3	139
232	Microbial Control of Sea Spray Aerosol Composition: A Tale of Two Blooms. <i>ACS Central Science</i> , 2015 , 1, 124-31	16.8	132
231	Characterization of aerosols containing Zn, Pb, and Cl from an industrial region of Mexico City. <i>Environmental Science & Technology</i> , 2008 , 42, 7091-7	10.3	128
230	Flight-based chemical characterization of biomass burning aerosols within two prescribed burn smoke plumes. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12549-12565	6.8	120
229	Analysis of atmospheric aerosols. <i>Annual Review of Analytical Chemistry</i> , 2008 , 1, 485-514	12.5	120
228	Determination of single particle mass spectral signatures from light-duty vehicle emissions. <i>Environmental Science & Technology</i> , 2005 , 39, 4569-80	10.3	113
227	Airborne transmission of SARS-CoV-2. <i>Science</i> , 2020 , 370, 303-304	33.3	113
226	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, 3500-6	10.3	111
225	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, 3912-21	10.3	111
224	Real-Time Monitoring of Pyrotechnically Derived Aerosol Particles in the Troposphere. <i>Analytical Chemistry</i> , 1997 , 69, 1808-1814	7.8	110
223	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, 1954-61	10.3	109
222	Analysis of Organic Anionic Surfactants in Fine and Coarse Fractions of Freshly Emitted Sea Spray Aerosol. <i>Environmental Science & Technology</i> , 2016 , 50, 2477-86	10.3	108
221	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, 5105-11	10.3	108
220	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	2.1	106
219	Assessment of the relative importance of atmospheric aging on CCN activity derived from field observations. <i>Atmospheric Environment</i> , 2008 , 42, 3130-3142	5.3	106

218	Seasonal volatility dependence of ambient particle phase amines. <i>Environmental Science & Technology</i> , 2009 , 43, 5276-81	10.3	105
217	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	3.5	102
216	Tools for the Microbiome: Nano and Beyond. <i>ACS Nano</i> , 2016 , 10, 6-37	16.7	99
215	Particle Detection Efficiencies of Aerosol Time of Flight Mass Spectrometers under Ambient Sampling Conditions. <i>Environmental Science & Technology</i> , 2000 , 34, 211-217	10.3	97
214	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	11.5	96
213	Mineral dust is a sink for chlorine in the marine boundary layer. <i>Atmospheric Environment</i> , 2007 , 41, 7166-7179	7.1	96
212	Evolution of Atmospheric Particles along Trajectories Crossing the Los Angeles Basin. <i>Environmental Science & Technology</i> , 2000 , 34, 3058-3068	10.3	96
211	Characterization of carbonaceous aerosols outflow from India and Arabia: Biomass/biofuel burning and fossil fuel combustion. <i>Journal of Geophysical Research</i> , 2003 , 108,		94
210	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	6.8	91
209	MALDI matrices for biomolecular analysis based on functionalized carbon nanomaterials. <i>Analytical Chemistry</i> , 2004 , 76, 6734-42	7.8	90
208	Size and Composition Distribution of Atmospheric Particles in Southern California. <i>Environmental Science & Technology</i> , 1999 , 33, 3506-3515	10.3	90
207	Aircraft measurements of vertical profiles of aerosol mixing states. <i>Journal of Geophysical Research</i> , 2010 , 115,		88
206	Development and characterization of an aircraft aerosol time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2009 , 81, 1792-800	7.8	86
205	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,		86
204	Single particle analysis of suspended soil dust from Southern California. <i>Atmospheric Environment</i> , 2000 , 34, 1811-1820	5.3	86
203	Molecular Diversity of Sea Spray Aerosol Particles: Impact of Ocean Biology on Particle Composition and Hygroscopicity. <i>CheM</i> , 2017 , 2, 655-667	16.2	85
202	Detection of Asian dust in California orographic precipitation. <i>Journal of Geophysical Research</i> , 2011 , 116,		81
201	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	2.1	81

200	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	5.3	81
199	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, 14528-31	16.4	80
198	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, 6206-14	3.6	79
197	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7647-7687	6.8	79
196	Using ATOFMS to Determine OC/EC Mass Fractions in Particles. <i>Aerosol Science and Technology</i> , 2006 , 40, 585-594	3.4	79
195	Composition and hygroscopicity of the Los Angeles Aerosol: CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3016-3036	4.4	78
194	A comparison of particle mass spectrometers during the 1999 Atlanta Supersite Project. <i>Journal of Geophysical Research</i> , 2003 , 108,		78
193	Aerosol time-of-flight mass spectrometry during the Atlanta Supersite Experiment: 1. Measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		78
192	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	6.1	77
191	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	6.8	77
190	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	4	77
189	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	4.4	76
188	Mass spectrometry of atmospheric aerosols--recent developments and applications. Part I: Off-line mass spectrometry techniques. <i>Mass Spectrometry Reviews</i> , 2012 , 31, 1-16	11	75
187	On-Line Characterization of Individual Particles from Automobile Emissions. <i>Environmental Science & Technology</i> , 1997 , 31, 3074-3080	10.3	75
186	Simultaneous measurement of the effective density and chemical composition of ambient aerosol particles. <i>Environmental Science & Technology</i> , 2007 , 41, 1303-9	10.3	75
185	Air quality impact and physicochemical aging of biomass burning aerosols during the 2007 San Diego wildfires. <i>Environmental Science & Technology</i> , 2013 , 47, 7633-43	10.3	74
184	Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. <i>Journal of Geophysical Research</i> , 2004 , 109,		74
183	Real-time, single-particle volatility, size, and chemical composition measurements of aged urban aerosols. <i>Environmental Science & Technology</i> , 2009 , 43, 8276-82	10.3	73

182	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , 2021 , 372, 689-691	33.3	73
181	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, 1566-72	10.3	71
180	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	4	70
179	Timescale for hygroscopic conversion of calcite mineral particles through heterogeneous reaction with nitric acid. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 7826-37	3.6	70
178	Continuous measurements of size-resolved particle chemistry during INDOEX-Intensive Field Phase 99. <i>Journal of Geophysical Research</i> , 2001 , 106, 28607-28627		70
177	Measurements of isoprene-derived organosulfates in ambient aerosols by aerosol time-of-flight mass spectrometry-part 2: temporal variability and formation mechanisms. <i>Environmental Science & Technology</i> , 2011 , 45, 8648-55	10.3	69
176	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	2.1	68
175	Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. <i>Environmental Science & Technology</i> , 2016 , 50, 11511-11520	10.3	68
174	Postsynthetic modification at orthogonal reactive sites on mixed, bifunctional metal-organic frameworks. <i>Chemical Communications</i> , 2011 , 47, 7629-31	5.8	67
173	Comparison of two methods for obtaining quantitative mass concentrations from aerosol time-of-flight mass spectrometry measurements. <i>Analytical Chemistry</i> , 2006 , 78, 6169-78	7.8	66
172	Hydroxymethanesulfonate as a tracer for fog processing of individual aerosol particles. <i>Atmospheric Environment</i> , 2003 , 37, 1033-1043	5.3	64
171	Single Particle Characterization of Automobile and Diesel Truck Emissions in the Caldecott Tunnel. <i>Aerosol Science and Technology</i> , 2000 , 32, 152-163	3.4	63
170	Determination of single particle mass spectral signatures from heavy-duty diesel vehicle emissions for PM _{2.5} source apportionment. <i>Atmospheric Environment</i> , 2007 , 41, 3841-3852	5.3	62
169	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, 230-4	7.8	62
168	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,	11.5	62
167	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	5.3	61
166	Closure between aerosol particles and cloud condensation nuclei at Kaashidhoo Climate Observatory. <i>Journal of Geophysical Research</i> , 2001 , 106, 28711-28718		61
165	Taxon-specific aerosolization of bacteria and viruses in an experimental ocean-atmosphere mesocosm. <i>Nature Communications</i> , 2018 , 9, 2017	17.4	61

164	Sea Spray Aerosol: The Chemical Link between the Oceans, Atmosphere, and Climate. <i>Accounts of Chemical Research</i> , 2017 , 50, 599-604	24.3	60
163	Aerosol time-of-flight mass spectrometry data analysis: a benchmark of clustering algorithms. <i>Analytica Chimica Acta</i> , 2007 , 585, 38-54	6.6	60
162	A field-based approach for determining ATOFMS instrument sensitivities to ammonium and nitrate. <i>Environmental Science & Technology</i> , 2002 , 36, 4868-79	10.3	60
161	Seasonal comparisons of single-particle chemical mixing state in Riverside, CA. <i>Atmospheric Environment</i> , 2012 , 59, 587-596	5.3	58
160	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	5.3	58
159	Direct SO_2 reactivity measurements at a polluted coastal site. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2959-2968	6.8	56
158	Chemically segregated optical and microphysical properties of ambient aerosols measured in a single-particle mass spectrometer. <i>Journal of Geophysical Research</i> , 2008 , 113,		56
157	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, 2493-5004	6.4	55
156	Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. <i>ACS Central Science</i> , 2016 , 2, 40-47	16.8	55
155	Unique ocean-derived particles serve as a proxy for changes in ocean chemistry. <i>Journal of Geophysical Research</i> , 2011 , 116,		54
154	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, 1618-27	10.3	53
153	Aerosol time-of-flight mass spectrometry during the Atlanta Supersite Experiment: 2. Scaling procedures. <i>Journal of Geophysical Research</i> , 2003 , 108,		53
152	Measurements of aerosol chemistry during new particle formation events at a remote rural mountain site. <i>Environmental Science & Technology</i> , 2011 , 45, 8208-16	10.3	52
151	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	5.3	52
150	Detection and phylogenetic analysis of coastal bioaerosols using culture dependent and independent techniques. <i>Biogeosciences</i> , 2011 , 8, 301-309	4.6	51
149	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	6.8	51
148	Effects of meteorological conditions on aerosol composition and mixing state in Bakersfield, CA. <i>Environmental Science & Technology</i> , 2002 , 36, 2345-53	10.3	51
147	Real-Time Measurement Capabilities Using Aerosol Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 1994 , 66, 3540-3542	7.8	51

146	Observation of playa salts as nuclei in orographic wave clouds. <i>Journal of Geophysical Research</i> , 2010 , 115,		50
145	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, 1525-33	2.2	49
144	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 8860-70	2.8	48
143	Transition metal associations with primary biological particles in sea spray aerosol generated in a wave channel. <i>Environmental Science & Technology</i> , 2014 , 48, 1324-33	10.3	48
142	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	2.1	48
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	3.4	48
140	Relationships of Biomass-Burning Aerosols to Ice in Orographic Wave Clouds. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 2437-2450	2.1	46
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	1.9	46
138	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	2.1	46
137	Source apportionment of fine particulate matter by clustering single-particle data: tests of receptor model accuracy. <i>Environmental Science & Technology</i> , 2001 , 35, 2060-72	10.3	45
136	Recent Advances and Some Remaining Challenges in Analytical Chemistry of the Atmosphere. <i>Analytical Chemistry</i> , 2003 , 75, 2929-2940	7.8	43
135	In Situ Chemical Characterization of Aged Biomass-Burning Aerosols Impacting Cold Wave Clouds. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 2451-2468	2.1	42
134	Extending ATOFMS measurements to include refractive index and density. <i>Analytical Chemistry</i> , 2005 , 77, 6535-41	7.8	42
133	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	5.3	41
132	Trace gas and particulate emissions from the 2003 southern California wildfires. <i>Journal of Geophysical Research</i> , 2007 , 112,		41
131	Phytoplankton blooms weakly influence the cloud forming ability of sea spray aerosol. <i>Geophysical Research Letters</i> , 2016 , 43, 9975-9983	4.9	40
130	Comparison of the mixing state of long-range transported Asian and African mineral dust. <i>Atmospheric Environment</i> , 2015 , 115, 19-25	5.3	39
129	Impact of Particle Generation Method on the Apparent Hygroscopicity of Insoluble Mineral Particles. <i>Aerosol Science and Technology</i> , 2010 , 44, 830-846	3.4	39

128	Size-resolved chemical composition of aerosol particles during a monsoonal transition period over the Indian Ocean. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
127	Quantification of ATOFMS data by multivariate methods. <i>Analytical Chemistry</i> , 2001 , 73, 3535-41	7.8	39
126	Size-resolved sea spray aerosol particles studied by vibrational sum frequency generation. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 6589-601	2.8	38
125	The Impact of Aerosol Particle Mixing State on the Hygroscopicity of Sea Spray Aerosol. <i>ACS Central Science</i> , 2015 , 1, 132-41	16.8	37
124	Gold Nanoparticles as a Matrix for Visible-Wavelength Single-Particle Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Small Biomolecules. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4083-4090	3.8	37
123	Source apportionment of 1 h semi-continuous data during the 2005 Study of Organic Aerosols in Riverside (SOAR) using positive matrix factorization. <i>Atmospheric Environment</i> , 2008 , 42, 2706-2719	5.3	36
122	Evaluation of aerosol mixing state classes in the GISS modelE-MATRIX climate model using single-particle mass spectrometry measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9834-9844	4.4	34
121	Impact of interannual variations in sources of insoluble aerosol species on orographic precipitation over California's central Sierra Nevada. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6535-6548	6.8	31
120	Aerosol characterization using mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 1994 , 13, 218-224.	4.6	30
119	Ice nucleation by particles containing long-chain fatty acids of relevance to freezing by sea spray aerosols. <i>Environmental Sciences: Processes and Impacts</i> , 2018 , 20, 1559-1569	4.3	30
118	The impact of shipping, agricultural, and urban emissions on single particle chemistry observed aboard the R/V Atlantis during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5003-5017	4.1	29
117	Chemical properties of insoluble precipitation residue particles. <i>Journal of Aerosol Science</i> , 2014 , 76, 13-27	4.3	28
116	The Impacts of California's San Francisco Bay Area Gap on Precipitation Observed in the Sierra Nevada during HMT and CalWater. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1048-1069	3.7	27
115	Role of Organic Coatings in Regulating N ₂ O ₅ Reactive Uptake to Sea Spray Aerosol. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11683-92	2.8	27
114	Airborne Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): What We Know. <i>Clinical Infectious Diseases</i> , 2021 , 73, 1924-1926	11.6	27
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