Douglas R Worsnop

List of Publications by Year
in descending order

550	76,945	466	1009
papers	citations	130 h-index	236 g-index

563	563	563	16568
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of Organic Aerosols in the Atmosphere. Science, 2009, 326, 1525-1529.	12.6	3,374
2	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenicallyâ€influenced Northern Hemisphere midlatitudes. Geophysical Research Letters, 2007, 34, .	4.0	1,773
3	Chemical and microphysical characterization of ambient aerosols with the aerodyne aerosol mass spectrometer. Mass Spectrometry Reviews, 2007, 26, 185-222.	5.4	1,708
4	O/C and OM/OC Ratios of Primary, Secondary, and Ambient Organic Aerosols with High-Resolution Time-of-Flight Aerosol Mass Spectrometry. Environmental Science & Technology, 2008, 42, 4478-4485.	10.0	1,524
5	Development of an Aerosol Mass Spectrometer for Size and Composition Analysis of Submicron Particles. Aerosol Science and Technology, 2000, 33, 49-70.	3.1	1,503
6	A large source of low-volatility secondary organic aerosol. Nature, 2014, 506, 476-479.	27.8	1,448
7	Interpretation of organic components from Positive Matrix Factorization of aerosol mass spectrometric data. Atmospheric Chemistry and Physics, 2009, 9, 2891-2918.	4.9	1,276
8	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. Nature, 2011, 476, 429-433.	27.8	1,114
9	Secondary organic aerosol formation from anthropogenic air pollution: Rapid and higher than expected. Geophysical Research Letters, 2006, 33, .	4.0	1,027
10	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. Atmospheric Chemistry and Physics, 2010, 10, 4625-4641.	4.9	908
11	Carbon oxidation state as a metric for describing the chemistry of atmospheric organic aerosol. Nature Chemistry, 2011, 3, 133-139.	13.6	890
12	Direct Observations of Atmospheric Aerosol Nucleation. Science, 2013, 339, 943-946.	12.6	876
13	Particle Morphology and Density Characterization by Combined Mobility and Aerodynamic Diameter Measurements. Part 1: Theory. Aerosol Science and Technology, 2004, 38, 1185-1205.	3.1	811
14	Ambient aerosol sampling using the Aerodyne Aerosol Mass Spectrometer. Journal of Geophysical Research, 2003, 108, .	3.3	801
15	Molecular understanding of sulphuric acidâ€“amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.	27.8	774
16	Understanding atmospheric organic aerosols via factor analysis of aerosol mass spectrometry: a review. Analytical and Bioanalytical Chemistry, 2011, 401, 3045-3067.	3.7	764
17	Elemental ratio measurements of organic compounds using aerosol mass spectrometry: characterization, improved calibration, and implications. Atmospheric Chemistry and Physics, 2015, 15, 253-272.	4.9	736
18	A New Time-of-Flight Aerosol Mass Spectrometer (TOF-AMS)â€”Instrument Description and First Field Deployment. Aerosol Science and Technology, 2005, 39, 637-658.	3.1	719

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19	An amorphous solid state of biogenic secondary organic aerosol particles. Nature, 2010, 467, 824-827.	27.8	719
20	A generalised method for the extraction of chemically resolved mass spectra from Aerodyne aerosol mass spectrometer data. Journal of Aerosol Science, 2004, 35, 909-922.	3.8	702
21	Budget of organic carbon in a polluted atmosphere: Results from the New England Air Quality Study in 2002. Journal of Geophysical Research, 2005, 110, .	3.3	689
22	An Aerosol Chemical Speciation Monitor (ACSM) for Routine Monitoring of the Composition and Mass Concentrations of Ambient Aerosol. Aerosol Science and Technology, 2011, 45, 780-794.	3.1	675
23	Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon. Science, 2012, 337, 1078-1081.	12.6	618
24	Deconvolution and Quantification of Hydrocarbon-like and Oxygenated Organic Aerosols Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2005, 39, 4938-4952.	10.0	617
25	Hydrocarbon-like and oxygenated organic aerosols in Pittsburgh: insights into sources and processes of organic aerosols. Atmospheric Chemistry and Physics, 2005, 5, 3289-3311.	4.9	572
26	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559.	23.0	548
27	The role of low-volatility organic compounds in initial particle growth in the atmosphere. Nature, 2016, 533, 527-531.	27.8	540
28	Ion-induced nucleation of pure biogenic particles. Nature, 2016, 533, 521-526.	27.8	528
29	Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) â€“ Part 1: Fine particle composition and organic source apportionment. Atmospheric Chemistry and Physics, 2009, 9, 6633-6653.	4.9	525
30	Photoelectron spectroscopy of hydrated electron cluster anions, (H2O)â˜n=2â€“69. Journal of Chemical Physics, 1990, 92, 3980-3982.	3.0	505
31	Changes in organic aerosol composition with aging inferred from aerosol mass spectra. Atmospheric Chemistry and Physics, 2011, 11, 6465-6474.	4.9	493
32	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. Chemical Reviews, 2019, 119, 3472-3509.	47.7	460
33	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. Science, 2014, 344, 717-721.	12.6	456
34	A high-resolution mass spectrometer to measure atmospheric ion composition. Atmospheric Measurement Techniques, 2010, 3, 1039-1053.	3.1	436
35	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. Atmospheric Chemistry and Physics, 2011, 11, 12109-12136.	4.9	421
36	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. Science, 2018, 361, 278-281.	12.6	415

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37	Chase Studies of Particulate Emissions from in-use New York City Vehicles. Aerosol Science and Technology, 2004, 38, 555-573.	3.1	407
38	An Iodide-Adduct High-Resolution Time-of-Flight Chemical-Ionization Mass Spectrometer: Application to Atmospheric Inorganic and Organic Compounds. Environmental Science & Technology, 2014, 48, 6309-6317.	10.0	406
39	Atmospheric sulphuric acid and neutral cluster measurements using CI-APi-TOF. Atmospheric Chemistry and Physics, 2012, 12, 4117-4125.	4.9	393
40	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. Atmospheric Chemistry and Physics, 2011, 11, 3865-3878.	4.9	392
41	Characterization of urban and rural organic particulate in the Lower Fraser Valley using two Aerodyne Aerosol Mass Spectrometers. Atmospheric Environment, 2004, 38, 5745-5758.	4.1	384
42	Quantitative sampling using an Aerodyne aerosol mass spectrometer 1. Techniques of data interpretation and error analysis. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	374
43	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. Atmospheric Chemistry and Physics, 2010, 10, 10561-10605.	4.9	352
44	The contribution of organics to atmospheric nanoparticle growth. Nature Geoscience, 2012, 5, 453-458.	12.9	350
45	New particle formation in the free troposphere: A question of chemistry and timing. Science, 2016, 352, 1109-1112.	12.6	348
46	Characterization of ambient aerosols in Mexico City during the MCMA-2003 campaign with Aerosol Mass Spectrometry: results from the CENICA Supersite. Atmospheric Chemistry and Physics, 2006, 6, 925-946.	4.9	341
47	A Case Study of Urban Particle Acidity and Its Influence on Secondary Organic Aerosol. Environmental Science & Technology, 2007, 41, 3213-3219.	10.0	341
48	Production of extremely low volatile organic compounds from biogenic emissions: Measured yields and atmospheric implications. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7123-7128.	7.1	337
49	Real-Time Methods for Estimating Organic Component Mass Concentrations from Aerosol Mass Spectrometer Data. Environmental Science & Technology, 2011, 45, 910-916.	10.0	336
50	Relating hygroscopicity and composition of organic aerosol particulate matter. Atmospheric Chemistry and Physics, 2011, 11, 1155-1165.	4.9	326
51	Long-term real-time measurements of aerosol particle composition in Beijing, China: seasonal variations, meteorological effects, and source analysis. Atmospheric Chemistry and Physics, 2015, 15, 10149-10165.	4.9	324
52	Highly time-resolved chemical characterization of atmospheric submicron particles during 2008 Beijing Olympic Games using an Aerodyne High-Resolution Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2010, 10, 8933-8945.	4.9	322
53	Measurement of fragmentation and functionalization pathways in the heterogeneous oxidation of oxidized organic aerosol. Physical Chemistry Chemical Physics, 2009, 11, 8005.	2.8	318
54	Soot Particle Aerosol Mass Spectrometer: Development, Validation, and Initial Application. Aerosol Science and Technology, 2012, 46, 804-817.	3.1	316

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55	Transmission Efficiency of an Aerodynamic Focusing Lens System: Comparison of Model Calculations and Laboratory Measurements for the Aerodyne Aerosol Mass Spectrometer. Aerosol Science and Technology, 2007, 41, 721-733.	3.1	308
56	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. Atmospheric Chemistry and Physics, 2014, 14, 6159-6176.	4.9	308
57	Measurements of Secondary Organic Aerosol from Oxidation of Cycloalkenes, Terpenes, andm-Xylene Using an Aerodyne Aerosol Mass Spectrometer. Environmental Science & Technology, 2005, 39, 5674-5688.	10.0	307
58	Laboratory studies of the chemical composition and cloud condensation nuclei (CCN) activity of secondary organic aerosol (SOA) and oxidized primary organic aerosol (OPOA). Atmospheric Chemistry and Physics, 2011, 11, 8913-8928.	4.9	307
59	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. Environmental Science & Technology, 2013, 47, 6316-6324.	10.0	304
60	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17223-17228.	7.1	300
61	Characterization of aerosol photooxidation flow reactors: heterogeneous oxidation, secondary organic aerosol formation and cloud condensation nuclei activity measurements. Atmospheric Measurement Techniques, 2011, 4, 445-461.	3.1	298
62	Chemically-resolved aerosol volatility measurements from two megacity field studies. Atmospheric Chemistry and Physics, 2009, 9, 7161-7182.	4.9	289
63	Global atmospheric particle formation from CERN CLOUD measurements. Science, 2016, 354, 1119-1124.	12.6	289
64	Primary and secondary aerosols in Beijing in winter: sources, variations and processes. Atmospheric Chemistry and Physics, 2016, 16, 8309-8329.	4.9	288
65	Dynamics and Kinetics at the Gasâ^'Liquid Interface. The Journal of Physical Chemistry, 1996, 100, 13007-13020.	2.9	283
66	Warming-induced increase in aerosol number concentration likely to moderate climate change. Nature Geoscience, 2013, 6, 438-442.	12.9	282
67	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	4.9	278
68	An Inter-Comparison of Instruments Measuring Black Carbon Content of Soot Particles. Aerosol Science and Technology, 2007, 41, 295-314.	3.1	276
69	Loading-dependent elemental composition of Î±-pinene SOA particles. Atmospheric Chemistry and Physics, 2009, 9, 771-782.	4.9	272
70	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. Nature Communications, 2015, 6, 8435.	12.8	266
71	Relationship between Oxidation Level and Optical Properties of Secondary Organic Aerosol. Environmental Science & Technology, 2013, 47, 6349-6357.	10.0	265
72	Insights into the Chemistry of New Particle Formation and Growth Events in Pittsburgh Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2004, 38, 4797-4809.	10.0	259

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73	A Novel Method for Estimating Light-Scattering Properties of Soot Aerosols Using a Modified Single-Particle Soot Photometer. Aerosol Science and Technology, 2007, 41, 125-135.	3.1	258
74	Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. Geophysical Research Letters, 2010, 37, .	4.0	257
75	Oxygenated and water-soluble organic aerosols in Tokyo. Journal of Geophysical Research, 2007, 112, .	3.3	256
76	A mass spectrometric study of secondary organic aerosols formed from the photooxidation of anthropogenic and biogenic precursors in a reaction chamber. Atmospheric Chemistry and Physics, 2006, 6, 5279-5293.	4.9	247
77	Mass Accommodation and Chemical Reactions at Gasâ^'Liquid Interfaces. Chemical Reviews, 2006, 106, 1323-1354.	47.7	243
78	Highly time- and size-resolved characterization of submicron aerosol particles in Beijing using an Aerodyne Aerosol Mass Spectrometer. Atmospheric Environment, 2010, 44, 131-140.	4.1	242
79	Chemistry of Atmospheric Nucleation: On the Recent Advances on Precursor Characterization and Atmospheric Cluster Composition in Connection with Atmospheric New Particle Formation. Annual Review of Physical Chemistry, 2014, 65, 21-37.	10.8	242
80	Vapor Pressures of Solid Hydrates of Nitric Acid: Implications for Polar Stratospheric Clouds. Science, 1993, 259, 71-74.	12.6	241
81	The temperature dependence of mass accommodation of sulfur dioxide and hydrogen peroxide on aqueous surfaces. The Journal of Physical Chemistry, 1989, 93, 1159-1172.	2.9	239
82	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO3. Nature, 2016, 537, 532-534.	27.8	237
83	The Formation of Highly Oxidized Multifunctional Products in the Ozonolysis of Cyclohexene. Journal of the American Chemical Society, 2014, 136, 15596-15606.	13.7	236
84	Experimental observation of the negatively charged water dimer and other small (H2O)â^'n clusters. Journal of Chemical Physics, 1984, 81, 3742-3744.	3.0	234
85	Time- and size-resolved chemical composition of submicron particles in Pittsburgh: Implications for aerosol sources and processes. Journal of Geophysical Research, 2005, 110, .	3.3	229
86	Soot Particle Studiesâ€"Instrument Inter-Comparisonâ€"Project Overview. Aerosol Science and Technology, 2010, 44, 592-611.	3.1	228
87	Gas phase formation of extremely oxidized pinene reaction products in chamber and ambient air. Atmospheric Chemistry and Physics, 2012, 12, 5113-5127.	4.9	222
88	Humidity-dependent phase state of SOA particles from biogenic and anthropogenic precursors. Atmospheric Chemistry and Physics, 2012, 12, 7517-7529.	4.9	219
89	Particle Morphology and Density Characterization by Combined Mobility and Aerodynamic Diameter Measurements. Part 2: Application to Combustion-Generated Soot Aerosols as a Function of Fuel Equivalence Ratio. Aerosol Science and Technology, 2004, 38, 1206-1222.	3.1	212
90	The heterogeneous reaction of hydroxyl radicals with sub-micron squalane particles: a model system for understanding the oxidative aging of ambient aerosols. Atmospheric Chemistry and Physics, 2009, 9, 3209-3222.	4.9	211

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91	Reactive Uptake of Cl2(g) and Br2(g) by Aqueous Surfaces as a Function of Br- and I- Ion Concentration: The Effect of Chemical Reaction at the Interface. The Journal of Physical Chemistry, 1995, 99, 8768-8776.	2.9	210
92	Laboratory and Ambient Particle Density Determinations using Light Scattering in Conjunction with Aerosol Mass Spectrometry. Aerosol Science and Technology, 2007, 41, 343-359.	3.1	208
93	Neutral molecular cluster formation of sulfuric acidâ€“dimethylamine observed in real time under atmospheric conditions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15019-15024.	7.1	208
94	The role of VOC oxidation products in continental new particle formation. Atmospheric Chemistry and Physics, 2008, 8, 2657-2665.	4.9	202
95	Development and Characterization of a Fast-Stepping/Scanning Thermodenuder for Chemically-Resolved Aerosol Volatility Measurements. Aerosol Science and Technology, 2008, 42, 395-407.	3.1	201
96	A field-deployable, chemical ionization time-of-flight mass spectrometer. Atmospheric Measurement Techniques, 2011, 4, 1471-1479.	3.1	200
97	Design, Modeling, Optimization, and Experimental Tests of a Particle Beam Width Probe for the Aerodyne Aerosol Mass Spectrometer. Aerosol Science and Technology, 2005, 39, 1143-1163.	3.1	196
98	Elemental composition and oxidation of chamber organic aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8827-8845.	4.9	190
99	Mobile Laboratory with Rapid Response Instruments for Real-Time Measurements of Urban and Regional Trace Gas and Particulate Distributions and Emission Source Characteristics. Environmental Science & Technology, 2004, 38, 5694-5703.	10.0	189
100	Chemical Sinks of Organic Aerosol: Kinetics and Products of the Heterogeneous Oxidation of Erythritol and Levoglucosan. Environmental Science & Technology, 2010, 44, 7005-7010.	10.0	187
101	Real-Time Continuous Characterization of Secondary Organic Aerosol Derived from Isoprene Epoxydiols in Downtown Atlanta, Georgia, Using the Aerodyne Aerosol Chemical Speciation Monitor. Environmental Science & Technology, 2013, 47, 5686-5694.	10.0	186
102	Rapid Autoxidation Forms Highly Oxidized RO₂ Radicals in the Atmosphere. Angewandte Chemie - International Edition, 2014, 53, 14596-14600.	13.8	186
103	The ToF-ACSM: a portable aerosol chemical speciation monitor with TOFMS detection. Atmospheric Measurement Techniques, 2013, 6, 3225-3241.	3.1	184
104	Transitions from Functionalization to Fragmentation Reactions of Laboratory Secondary Organic Aerosol (SOA) Generated from the OH Oxidation of Alkane Precursors. Environmental Science & Technology, 2012, 46, 5430-5437.	10.0	181
105	Characterization of an Aerodyne Aerosol Mass Spectrometer (AMS): Intercomparison with Other Aerosol Instruments. Aerosol Science and Technology, 2005, 39, 760-770.	3.1	179
106	Effects of Aqueous-Phase and Photochemical Processing on Secondary Organic Aerosol Formation and Evolution in Beijing, China. Environmental Science & Technology, 2017, 51, 762-770.	10.0	179
107	Effect of oxidant concentration, exposure time, and seed particles on secondary organic aerosol chemical composition and yield. Atmospheric Chemistry and Physics, 2015, 15, 3063-3075.	4.9	177
108	Use of electrochemical sensors for measurement of air pollution: correcting interference response and validating measurements. Atmospheric Measurement Techniques, 2017, 10, 3575-3588.	3.1	177

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109	Particle mass yield in secondary organic aerosol formed by the dark ozonolysis of Î±-pinene. Atmospheric Chemistry and Physics, 2008, 8, 2073-2088.	4.9	175
110	Rapid changes in biomass burning aerosols by atmospheric oxidation. Geophysical Research Letters, 2014, 41, 2644-2651.	4.0	175
111	Gas Phase Reaction of Sulfur Trioxide with Water Vapor. Journal of the American Chemical Society, 1994, 116, 10314-10315.	13.7	174
112	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. Environmental Science & Technology, 2015, 49, 10330-10339.	10.0	172
113	Mass Spectra of Negatively Charged Water and Ammonia Clusters. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1984, 88, 270-272.	0.9	171
114	Composition and temporal behavior of ambient ions in the boreal forest. Atmospheric Chemistry and Physics, 2010, 10, 8513-8530.	4.9	170
115	Temperature dependence of the uptake coefficients of nitric acid, hydrochloric acid and nitrogen oxide (N2O5) by water droplets. The Journal of Physical Chemistry, 1990, 94, 3265-3269.	2.9	169
116	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. Nature, 2020, 581, 184-189.	27.8	169
117	Evaluation of a New Reagent-Ion Source and Focusing Ionâ€“Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. Analytical Chemistry, 2018, 90, 12011-12018.	6.5	168
118	Detection of particle-phase polycyclic aromatic hydrocarbons in Mexico City using an aerosol mass spectrometer. International Journal of Mass Spectrometry, 2007, 263, 152-170.	1.5	167
119	Quantitative sampling using an Aerodyne aerosol mass spectrometer 2. Measurements of fine particulate chemical composition in two U.K. cities. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	166
120	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Science Advances, 2018, 4, eaau5363.	10.3	164
121	Characterization of submicron aerosols at a rural site in Pearl River Delta of China using an Aerodyne High-Resolution Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2011, 11, 1865-1877.	4.9	162
122	Correlation of secondary organic aerosol with odd oxygen in Mexico City. Geophysical Research Letters, 2008, 35, .	4.0	161
123	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events. Atmospheric Chemistry and Physics, 2011, 11, 9019-9036.	4.9	160
124	Products and Mechanisms of Ozone Reactions with Oleic Acid for Aerosol Particles Having Coreâ^'Shell Morphologies. Journal of Physical Chemistry A, 2004, 108, 6686-6695.	2.5	156
125	Chemical Smoke Marker Emissions During Flaming and Smoldering Phases of Laboratory Open Burning of Wildland Fuels. Aerosol Science and Technology, 2010, 44, i-v.	3.1	156
126	â€œAPEC Blueâ€• Secondary Aerosol Reductions from Emission Controls in Beijing. Scientific Reports, 2016, 6, 20668.	3.3	155

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127	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From Highâ€Resolution Aerosol Mass Spectrometry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1132-1147.	3.3	155
128	Uptake of sulfur dioxide(G) by aqueous surfaces as a function of pH: the effect of chemical reaction at the interface. The Journal of Physical Chemistry, 1990, 94, 6041-6048.	2.9	154
129	Severe Pollution in China Amplified by Atmospheric Moisture. Scientific Reports, 2017, 7, 15760.	3.3	151
130	Size and composition measurements of background aerosol and new particle growth in a Finnish forest during QUEST 2 using an Aerodyne Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2006, 6, 315-327.	4.9	150
131	Seasonal and diurnal variations of submicron organic aerosol in Tokyo observed using the Aerodyne aerosol mass spectrometer. Journal of Geophysical Research, 2006, 111, .	3.3	149
132	Strong atmospheric new particle formation in winter in urban Shanghai, China. Atmospheric Chemistry and Physics, 2015, 15, 1769-1781.	4.9	147
133	Characterization of submicron particles influenced by mixed biogenic and anthropogenic emissions using high-resolution aerosol mass spectrometry: results from CARES. Atmospheric Chemistry and Physics, 2012, 12, 8131-8156.	4.9	146
134	Enhanced SOA formation from mixed anthropogenic and biogenic emissions during the CARES campaign. Atmospheric Chemistry and Physics, 2013, 13, 2091-2113.	4.9	146
135	A Numerical Characterization of Particle Beam Collimation by an Aerodynamic Lens-Nozzle System: Part I. An Individual Lens or Nozzle. Aerosol Science and Technology, 2002, 36, 617-631.	3.1	145
136	Frequency-dependent optical constants of water ice obtained directly from aerosol extinction spectra. The Journal of Physical Chemistry, 1995, 99, 6317-6326.	2.9	144
137	Pressure and Temperature Dependence of the Gas-Phase Reaction of SO3with H2O and the Heterogeneous Reaction of SO3with H2O/H2SO4Surfaces. Journal of Physical Chemistry A, 1997, 101, 10000-10011.	2.5	144
138	Submicron aerosol composition at Trinidad Head, California, during ITCT 2K2: Its relationship with gas phase volatile organic carbon and assessment of instrument performance. Journal of Geophysical Research, 2004, 109, .	3.3	144
139	Numerical Characterization of Particle Beam Collimation: Part II Integrated Aerodynamic-Lensâ€“Nozzle System. Aerosol Science and Technology, 2004, 38, 619-638.	3.1	143
140	The deposition ice nucleation and immersion freezing potential of amorphous secondary organic aerosol: Pathways for ice and mixedâ€phase cloud formation. Journal of Geophysical Research, 2012, 117, .	3.3	139
141	Adsorptive uptake of water by semisolid secondary organic aerosols. Geophysical Research Letters, 2015, 42, 3063-3068.	4.0	139
142	A chemical cocktail during the COVID-19 outbreak in Beijing, China: Insights from six-year aerosol particle composition measurements during the Chinese New Year holiday. Science of the Total Environment, 2020, 742, 140739.	8.0	138
143	Mass and Thermal Accommodation Coefficients of H2O(g) on Liquid Water as a Function of Temperature. Journal of Physical Chemistry A, 2001, 105, 10627-10634.	2.5	136
144	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). Environmental Science and Technology Letters, 2018, 5, 167-174.	8.7	131

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145	The 2005 Study of Organic Aerosols at Riverside (SOAR-1): instrumental intercomparisons and fine particle composition. Atmospheric Chemistry and Physics, 2011, 11, 12387-12420.	4.9	129
146	Uptake of gas-phase alcohol and organic acid molecules by water surfaces. The Journal of Physical Chemistry, 1991, 95, 6329-6336.	2.9	128
147	Phase partitioning and volatility of secondary organic aerosol components formed from Î±-pinene ozonolysis and OH oxidation: the importance of accretion products and other low volatility compounds. Atmospheric Chemistry and Physics, 2015, 15, 7765-7776.	4.9	126
148	Real-Time Characterization of Aerosol Particle Composition above the Urban Canopy in Beijing: Insights into the Interactions between the Atmospheric Boundary Layer and Aerosol Chemistry. Environmental Science & Technology, 2015, 49, 11340-11347.	10.0	124
149	Heterogeneous uptake of ClONO2and N2O5by sulfuric acid solutions. Journal of Geophysical Research, 1997, 102, 3583-3601.	3.3	120
150	A chemical kinetic model for reactive transformations of aerosol particles. Geophysical Research Letters, 2002, 29, 57-1-57-4.	4.0	119
151	Size-resolved aerosol chemistry on Whistler Mountain, Canada with a high-resolution aerosol mass spectrometer during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 3095-3111.	4.9	119
152	Evaluating the performance of five different chemical ionization techniques for detecting gaseous oxygenated organic species. Atmospheric Measurement Techniques, 2019, 12, 2403-2421.	3.1	119
153	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	118
154	Source characterization of highly oxidized multifunctional compounds in a boreal forest environment using positive matrix factorization. Atmospheric Chemistry and Physics, 2016, 16, 12715-12731.	4.9	118
155	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9122-9127.	7.1	118
156	Aerosol composition, oxidation properties, and sources in Beijing: results from the 2014 Asia-Pacific Economic Cooperation summit study. Atmospheric Chemistry and Physics, 2015, 15, 13681-13698.	4.9	117
157	Impact of Thermal Decomposition on Thermal Desorption Instruments: Advantage of Thermogram Analysis for Quantifying Volatility Distributions of Organic Species. Environmental Science & Technology, 2017, 51, 8491-8500.	10.0	117
158	The effect of acidâ€“base clustering and ions on the growth of atmospheric nano-particles. Nature Communications, 2016, 7, 11594.	12.8	116
159	Negatively charged water clusters: mass spectra of (H2O)n- and (D2O)n-. The Journal of Physical Chemistry, 1984, 88, 3903-3904.	2.9	115
160	Characterization of particulate matter emissions from on-road gasoline and diesel vehicles using a soot particle aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2014, 14, 7585-7599.	4.9	115
161	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. Atmospheric Chemistry and Physics, 2009, 9, 3425-3442.	4.9	114
162	Major components of atmospheric organic aerosol in southern California as determined by hourly measurements of source marker compounds. Atmospheric Chemistry and Physics, 2010, 10, 11577-11603.	4.9	114

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163	Detecting high contributions of primary organic matter to marine aerosol: A case study. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	113
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