Rodney J Weber

List of Publications by Year in Descending Order

269 papers	22,105 citations	85 h-index	143 g-index
335 ext. papers	25,334 ext. citations	6.8 avg, IF	6.76 L-index

#	Paper	IF	Citations
269	Emissions, chemistry or bidirectional surface transfer? Gas phase formic acid dynamics in the atmosphere. *Atmospheric Environment*, **2022**, 274, 118995	5.3	2
268	Water soluble reactive phosphate (SRP) in atmospheric particles over East Mediterranean: The importance of dust and biomass burning events.. *Science of the Total Environment*, **2022**, 154263	10.2	
267	Hydrogen chloride (HCl) at ground sites during CalNex 2010 and insight into its thermodynamic properties.. *Journal of Geophysical Research D: Atmospheres*, **2022**, 127, 1-16	4.4	0
266	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. *Bulletin of the American Meteorological Society*, **2021**, 1-53	6.1	6
265	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. *Atmospheric Chemistry and Physics*, **2021**, 21, 15023-15063	6.8	4
264	Evaluation of a New Aerosol Chemical Speciation Monitor (ACSM) System at an Urban Site in Atlanta, GA: The Use of Capture Vaporizer and PM2.5 Inlet. *ACS Earth and Space Chemistry*, **2021**, 5, 2565-2576	3.2	2
263	Aerosol acidity and liquid water content regulate the dry deposition of inorganic reactive nitrogen. *Atmospheric Chemistry and Physics*, **2021**, 21, 6023-6033	6.8	10
262	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. *Environmental Science & Technology*, **2021**, 55, 6688-6699	10.3	5
261	Hydroxymethanesulfonate (HMS) Formation during Summertime Fog in an Arctic Oil Field. *Environmental Science and Technology Letters*, **2021**, 8, 511-518	11	3
260	A method for liquid spectrophotometric measurement of total and water-soluble iron and copper in ambient aerosols. *Atmospheric Measurement Techniques*, **2021**, 14, 4707-4719	4	0
259	Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. *Atmospheric Chemistry and Physics*, **2021**, 21, 11079-11098	6.8	3
258	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). *Bulletin of the American Meteorological Society*, **2021**, 1-51	6.1	10
257	Fine Aerosol Acidity and Water during Summer in the Eastern North Atlantic. *Atmosphere*, **2021**, 12, 1040	2.7	
256	Assessment of online water-soluble brown carbon measuring systems for aircraft sampling. *Atmospheric Measurement Techniques*, **2021**, 14, 6357-6378	4	1
255	Fine Particle Iron in Soils and Road Dust Is Modulated by Coal-Fired Power Plant Sulfur. *Environmental Science & Technology*, **2020**, 54, 7088-7096	10.3	6
254	The Acidity of Atmospheric Particles and Clouds. *Atmospheric Chemistry and Physics*, **2020**, 20, 4809-4888	6.8	165
253	Characterization and comparison of PM_{2.5} oxidative potential assessed by two acellular assays. *Atmospheric Chemistry and Physics*, **2020**, 20, 5197-5210	6.8	17

252	Global Measurements of Brown Carbon and Estimated Direct Radiative Effects. *Geophysical Research Letters*, **2020**, 47, e2020GL088747	4.9	26
251	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability. *Atmospheric Chemistry and Physics*, **2020**, 20, 3249-3258	6.8	39
250	Characterization of water-insoluble oxidative potential of PM2.5 using the dithiothreitol assay. *Atmospheric Environment*, **2020**, 224, 117327	5.3	29
249	Modeling the global radiative effect of brown carbon: a potentially larger heating source in the tropical free troposphere than black carbon. *Atmospheric Chemistry and Physics*, **2020**, 20, 1901-1920	6.8	32
248	Evaluating a multipollutant metric for use in characterizing traffic-related air pollution exposures within near-road environments. *Environmental Research*, **2020**, 184, 109389	7.9	3
247	Chemical characterization of secondary organic aerosol at a rural site in the southeastern US: insights from simultaneous high-resolution time-of-flight aerosol mass spectrometer (HR-ToF-AMS) and FIGAERO chemical ionization mass spectrometer (CIMS) measurements. *Atmospheric Chemistry and Physics*, **2020**, 20, 8421-8440	6.8	16
246	First Continuous Measurement of Gaseous and Particulate Formic Acid in a Suburban Area of East China: Seasonality and Gas-Particle Partitioning. *ACS Earth and Space Chemistry*, **2020**, 4, 157-167	3.2	5
245	Fine particle pH and sensitivity to NH₃ and HNO₃ over summertime South Korea during KORUS-AQ **2020**,		1
244	Near-road Vehicle Emissions Air Quality Monitoring for Exposure Modeling. *Atmospheric Environment*, **2020**, 224, 117318-117318	5.3	9
243	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 1846-1861	4.4	22
242	Effects of Water-soluble Organic Carbon on Aerosol pH **2019**,		1
241	Modeling global radiative effect of brown carbon: A larger heating source in the tropical free troposphere than black carbon **2019**,		2
240	Chemical Composition and Toxicity of Particles Emitted from a Consumer-Level 3D Printer Using Various Materials. *Environmental Science & Technology*, **2019**, 53, 12054-12061	10.3	45
239	Relationship between Atmospheric Aerosol Mineral Surface Area and Iron Solubility. *ACS Earth and Space Chemistry*, **2019**, 3, 2443-2451	3.2	8
238	Oxidative Potential of Particulate Matter and Generation of Reactive Oxygen Species in Epithelial Lining Fluid. *Environmental Science & Technology*, **2019**, 53, 12784-12792	10.3	34
237	Characterization of volatile organic compound emissions from consumer level material extrusion 3D printers. *Building and Environment*, **2019**, 160, 106209	6.5	58
236	Effects of Atmospheric Processing on the Oxidative Potential of Biomass Burning Organic Aerosols. *Environmental Science & Technology*, **2019**, 53, 6747-6756	10.3	30
235	Review of Acellular Assays of Ambient Particulate Matter Oxidative Potential: Methods and Relationships with Composition, Sources, and Health Effects. *Environmental Science & Technology*, **2019**, 53, 4003-4019	10.3	161

234	Atmospheric evolution of molecular-weight-separated brown carbon from biomass burning. *Atmospheric Chemistry and Physics*, **2019**, 19, 7319-7334	6.8	57
233	Effects of water-soluble organic carbon on aerosol pH. *Atmospheric Chemistry and Physics*, **2019**, 19, 14607-14620	6.8	29
232	The Acidity of Atmospheric Particles and Clouds **2019**,		8
231	Heterogeneous N2O5 Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 4345-4372	4.4	69
230	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2038-2043	11.5	117
229	Exploring the observational constraints on the simulation of brown carbon. *Atmospheric Chemistry and Physics*, **2018**, 18, 635-653	6.8	80
228	Understanding nitrate formation in a world with less sulfate **2018**,		2
227	Linked Response of Aerosol Acidity and Ammonia to SO and NO Emissions Reductions in the United States. *Environmental Science & Technology*, **2018**, 52, 9861-9873	10.3	28
226	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8110-8115	11.5	86
225	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7771-7796	4.4	57
224	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. *Atmospheric Chemistry and Physics*, **2018**, 18, 11471-11491	6.8	55
223	Investigating particle emissions and aerosol dynamics from a consumer fused deposition modeling 3D printer with a lognormal moment aerosol model. *Aerosol Science and Technology*, **2018**, 52, 1099-1111	3.4	18
222	High Aerosol Acidity Despite Declining Atmospheric Sulfate Concentrations: Lessons from Observations and Implications for Models. *Springer Proceedings in Complexity*, **2018**, 171-176	0.3	
221	Source Impacts on and Cardiorespiratory Effects of Reactive Oxygen Species Generated by Water-Soluble PM2.5 Across the Eastern United States. *Springer Proceedings in Complexity*, **2018**, 503-508	0.3	1
220	Characterization of Aerosol Composition, Aerosol Acidity and Organic Acid Partitioning at an Agriculture-Intensive Rural Southeastern U.S. Site **2018**,		1
219	Oxidative Properties of Ambient Particulate Matter - An Assessment of the Relative Contributions from Various Aerosol Components and Their Emission Sources. *ACS Symposium Series*, **2018**, 389-416	0.4	2
218	Insights on Aerosol Oxidative Potential from Measurements of Particle Size Distributions. *ACS Symposium Series*, **2018**, 417-437	0.4	2
217	The underappreciated role of nonvolatile cations in aerosol ammonium-sulfate molar ratios. *Atmospheric Chemistry and Physics*, **2018**, 18, 17307-17323	6.8	39

216	ClNO2 Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,994	4.4	24
215	Understanding nitrate formation in a world with less sulfate. *Atmospheric Chemistry and Physics*, **2018**, 18, 12765-12775	6.8	45
214	Real-time measurements of gas-phase organic acids using SF₆ chemical ionization mass spectrometry. *Atmospheric Measurement Techniques*, **2018**, 11, 5087-5104	4	9
213	A Tribute to Peter McMurry. *Aerosol Science and Technology*, **2018**, 52, 1083-1084	3.4	
212	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,368	4.4	32
211	Estimating Acute Cardiovascular Effects of Ambient PM Metals. *Environmental Health Perspectives*, **2018**, 126, 027007	8.4	30
210	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,897	4.4	16
209	Atmospheric Evolution of Molecular Weight Separated Brown Carbon from Biomass Burning **2018**,		2
208	Effectiveness of ammonia reduction on control of fine particle nitrate. *Atmospheric Chemistry and Physics*, **2018**, 18, 12241-12256	6.8	78
207	Source impact modeling of spatiotemporal trends in PM2.5 oxidative potential across the eastern United States. *Atmospheric Environment*, **2018**, 193, 158-167	5.3	13
206	Source apportionment of organic carbon in Centreville, AL using organosulfates in organic tracer-based positive matrix factorization. *Atmospheric Environment*, **2018**, 186, 74-88	5.3	16
205	Developing Multipollutant Exposure Indicators of Traffic Pollution: The Dorm Room Inhalation to Vehicle Emissions (DRIVE) Study. *Research Report (health Effects Institute)*, **2018**, 3-75	0.9	4
204	Molecular-Size-Separated Brown Carbon Absorption for Biomass-Burning Aerosol at Multiple Field Sites. *Environmental Science & Technology*, **2017**, 51, 3128-3137	10.3	49
203	Highly Acidic Ambient Particles, Soluble Metals, and Oxidative Potential: A Link between Sulfate and Aerosol Toxicity. *Environmental Science & Technology*, **2017**, 51, 2611-2620	10.3	205
202	Brown and black carbon in Beijing aerosol: Implications for the effects of brown coating on light absorption by black carbon. *Science of the Total Environment*, **2017**, 599-600, 1047-1055	10.2	64
201	Changes in Light Absorptivity of Molecular Weight Separated Brown Carbon Due to Photolytic Aging. *Environmental Science & Technology*, **2017**, 51, 8414-8421	10.3	107
200	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. *Nature Geoscience*, **2017**, 10, 486-489	18.3	114
199	Ambient Size Distributions and Lung Deposition of Aerosol Dithiothreitol-Measured Oxidative Potential: Contrast between Soluble and Insoluble Particles. *Environmental Science & Technology*, **2017**, 51, 6802-6811	10.3	63

198	Chemical Characterization of Water-Soluble Organic Aerosol in Contrasting Rural and Urban Environments in the Southeastern United States. *Environmental Science & Technology*, **2017**, 51, 78-88	10.3	58
197	High levels of ammonia do not raise fine particle pH sufficiently to yield nitrogen oxide-dominated sulfate production. *Scientific Reports*, **2017**, 7, 12109	4.9	115
196	A method for measuring total aerosol oxidative potential (OP) with the dithiothreitol (DTT) assay and comparisons between an urban and roadside site of water-soluble and total OP. *Atmospheric Measurement Techniques*, **2017**, 10, 2821-2835	4	36
195	The underappreciated role of nonvolatile cations on aerosol ammonium-sulfate molar ratios **2017**,		9
194	Associations between Ambient Fine Particulate Oxidative Potential and Cardiorespiratory Emergency Department Visits. *Environmental Health Perspectives*, **2017**, 125, 107008	8.4	57
193	Fine particle pH and gas-particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign **2017**,		1
192	Assessing the impact of anthropogenic pollution on isoprene-derived secondary organic aerosol formation in PM collected from the Birmingham, Alabama, ground site during the 2013 Southern Oxidant and Aerosol Study. *Atmospheric Chemistry and Physics*, **2017**, 16, 4897-4914	6.8	77
191	Characterization of particle emissions from consumer fused deposition modeling 3D printers. *Aerosol Science and Technology*, **2017**, 51, 1275-1286	3.4	70
190	Oxidative potential of PM2.5 during Atlanta rush hour: Measurements of in-vehicle dithiothreitol (DTT) activity. *Atmospheric Environment*, **2017**, 165, 169-178	5.3	31
189	Chemical and cellular oxidant production induced by naphthalene secondary organic aerosol (SOA): effect of redox-active metals and photochemical aging. *Scientific Reports*, **2017**, 7, 15157	4.9	21
188	On the implications of aerosol liquid water and phase separation for organic aerosol mass. *Atmospheric Chemistry and Physics*, **2017**, 17, 343-369	6.8	122
187	Chemical oxidative potential of secondary organic aerosol (SOA) generated from the photooxidation of biogenic and anthropogenic volatile organic compounds. *Atmospheric Chemistry and Physics*, **2017**, 17, 839-853	6.8	97
186	Fine particle pH and gas–particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign. *Atmospheric Chemistry and Physics*, **2017**, 17, 5703-5719	6.8	128
185	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 11,137-11,153	4.4	38
184	Composition and oxidation state of sulfur in atmospheric particulate matter. *Atmospheric Chemistry and Physics*, **2016**, 16, 13389-13398	6.8	12
183	Oxidative potential of ambient water-soluble PM_{2.5} in the southeastern United States: contrasts in sources and health associations between ascorbic acid (AA) and dithiothreitol (DTT) assays. *Atmospheric Chemistry and Physics*, **2016**, 16, 3865-3879	6.8	151
182	Particle water and pH in the eastern Mediterranean: source variability and implications for nutrient availability. *Atmospheric Chemistry and Physics*, **2016**, 16, 4579-4591	6.8	115
181	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7383-7414	4.4	71

180	Real-Time, Online Automated System for Measurement of Water-Soluble Reactive Phosphate Ions in Atmospheric Particles. *Analytical Chemistry*, **2016**, 88, 7163-70	7.8	7
179	High aerosol acidity despite declining atmospheric sulfate concentrations over the past 15 years. *Nature Geoscience*, **2016**, 9, 282-285	18.3	250
178	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1516-21	11.5	195
177	The characteristics of brown carbon aerosol during winter in Beijing. *Atmospheric Environment*, **2016**, 127, 355-364	5.3	140
176	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 10,355	4.4	129
175	Contribution of particulate brown carbon to light absorption in the rural and urban Southeast US. *Atmospheric Environment*, **2016**, 136, 95-104	5.3	19
174	Ambient PM2.5 and Health: Does PM2.5 Oxidative Potential Play a Role?. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 194, 530-1	10.2	17
173	Assessment of the sensitivity of core / shell parameters derived using the single-particle soot photometer to density and refractive index. *Atmospheric Measurement Techniques*, **2015**, 8, 1701-1718	4	67
172	Organic aerosols associated with the generation of reactive oxygen species (ROS) by water-soluble PM2.5. *Environmental Science & Technology*, **2015**, 49, 4646-56	10.3	177
171	Reactive Oxygen Species Generation Linked to Sources of Atmospheric Particulate Matter and Cardiorespiratory Effects. *Environmental Science & Technology*, **2015**, 49, 13605-12	10.3	185
170	Fractionating ambient humic-like substances (HULIS) for their reactive oxygen species activity Assessing the importance of quinones and atmospheric aging. *Atmospheric Environment*, **2015**, 120, 351-359	5.3	77
169	Evolution of brown carbon in wildfire plumes. *Geophysical Research Letters*, **2015**, 42, 4623-4630	4.9	206
168	Fine-particle water and pH in the southeastern United States. *Atmospheric Chemistry and Physics*, **2015**, 15, 5211-5228	6.8	312
167	On the link between hygroscopicity, volatility, and oxidation state of ambient and water-soluble aerosols in the southeastern United States. *Atmospheric Chemistry and Physics*, **2015**, 15, 8679-8694	6.8	69
166	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. *Atmospheric Chemistry and Physics*, **2015**, 15, 1975-1993	6.8	45
165	A critical evaluation of proxy methods used to estimate the acidity of atmospheric particles. *Atmospheric Chemistry and Physics*, **2015**, 15, 2775-2790	6.8	203
164	Aerosol characterization over the southeastern United States using high-resolution aerosol mass spectrometry: spatial and seasonal variation of aerosol composition and sources with a focus on organic nitrates. *Atmospheric Chemistry and Physics*, **2015**, 15, 7307-7336	6.8	195
163	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. *Atmospheric Chemistry and Physics*, **2015**, 15, 7841-7858	6.8	74

162	PM_{2.5} water-soluble elements in the southeastern United States: automated analytical method development, spatiotemporal distributions, source apportionment, and implications for heath studies. *Atmospheric Chemistry and Physics*, **2015**, 15, 11667-11682	6.8	70
161	Source apportionment of methane and nitrous oxide in California's San Joaquin Valley at CalNex 2010 via positive matrix factorization. *Atmospheric Chemistry and Physics*, **2015**, 15, 12043-12063	6.8	20
160	Biomass burning dominates brown carbon absorption in the rural southeastern United States. *Geophysical Research Letters*, **2015**, 42, 653-664	4.9	173
159	A semi-automated system for quantifying the oxidative potential of ambient particles in aqueous extracts using the dithiothreitol (DTT) assay: results from the Southeastern Center for Air Pollution and Epidemiology (SCAPE). *Atmospheric Measurement Techniques*, **2015**, 8, 471-482	4	94
158	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 37-42	11.5	393
157	Characterization of selenium in ambient aerosols and primary emission sources. *Environmental Science & Technology*, **2014**, 48, 8988-94	10.3	13
156	Diurnal cycle of fossil and nonfossil carbon using radiocarbon analyses during CalNex. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 6818-6835	4.4	70
155	Sources of primary and secondary organic aerosol and their diurnal variations. *Journal of Hazardous Materials*, **2014**, 264, 536-44	12.8	18
154	The characteristics of Beijing aerosol during two distinct episodes: impacts of biomass burning and fireworks. *Environmental Pollution*, **2014**, 185, 149-57	9.3	65
153	A yearlong study of water-soluble organic carbon in Beijing I: Sources and its primary vs. secondary nature. *Atmospheric Environment*, **2014**, 92, 514-521	5.3	92
152	Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 3600-3614	4.4	46
151	Brown carbon in the continental troposphere. *Geophysical Research Letters*, **2014**, 41, 2191-2195	4.9	92
150	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). *Atmospheric Chemistry and Physics*, **2014**, 14, 12181-12194	6.8	99
149	Trends in particle-phase liquid water during the Southern Oxidant and Aerosol Study. *Atmospheric Chemistry and Physics*, **2014**, 14, 10911-10930	6.8	62
148	Reactive oxygen species associated with water-soluble PM_{2.5} in the southeastern United States: spatiotemporal trends and source apportionment. *Atmospheric Chemistry and Physics*, **2014**, 14, 12915-12930	6.8	166
147	Intercomparison of an Aerosol Chemical Speciation Monitor (ACSM) with ambient fine aerosol measurements in downtown Atlanta, Georgia. *Atmospheric Measurement Techniques*, **2014**, 7, 1929-1941	4	55
146	A semi-automated system for quantifying the oxidative potential of ambient particles in aqueous extracts using the dithiothreitol (DTT) assay: results from the Southeastern Center for Air Pollution and Epidemiology (SCAPE) **2014**,		14
145	A yearlong study of water-soluble organic carbon in Beijing II: Light absorption properties. *Atmospheric Environment*, **2014**, 89, 235-241	5.3	120

144	Particulate and gas sampling of prescribed fires in South Georgia, USA. *Atmospheric Environment*, **2013**, 81, 125-135	5.3	17
143	Estimating the toxicity of ambient fine aerosols using freshwater rotifer Brachionus calyciflorus (Rotifera: Monogononta). *Environmental Pollution*, **2013**, 182, 379-84	9.3	24
142	Sources, composition and absorption Ångström exponent of light-absorbing organic components in aerosol extracts from the Los Angeles Basin. *Environmental Science & Technology*, **2013**, 47, 3685-93	10.3	264
141	Revising the use of potassium (K) in the source apportionment of PM2.5. *Atmospheric Pollution Research*, **2013**, 4, 14-21	4.5	83
140	Development and testing of an online method to measure ambient fine particulate reactive oxygen species (ROS) based on the 2',7'-dichlorofluorescin (DCFH) assay. *Atmospheric Measurement Techniques*, **2013**, 6, 1647-1658	4	36
139	Analysis of CCN activity of Arctic aerosol and Canadian biomass burning during summer 2008. *Atmospheric Chemistry and Physics*, **2013**, 13, 2735-2756	6.8	103
138	Size-resolved measurements of brown carbon in water and methanol extracts and estimates of their contribution to ambient fine-particle light absorption. *Atmospheric Chemistry and Physics*, **2013**, 13, 12389-12404	6.8	191
137	Biomass burning contribution to Beijing aerosol. *Atmospheric Chemistry and Physics*, **2013**, 13, 7765-7781	6.8	273
136	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 9233-9257	4.4	201
135	Heterogeneous formation of nitryl chloride and its role as a nocturnal NOx reservoir species during CalNex-LA 2010. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 10,638	4.4	57
134	Aerosol optical properties at Pasadena, CA during CalNex 2010. *Atmospheric Environment*, **2012**, 55, 190-200	3.9	45
133	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 1. Bulk water-soluble organic carbon. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		50
132	Contribution of water-soluble and insoluble components and their hydrophobic/hydrophilic subfractions to the reactive oxygen species-generating potential of fine ambient aerosols. *Environmental Science & Technology*, **2012**, 46, 11384-92	10.3	205
131	Iron solubility related to particle sulfur content in source emission and ambient fine particles. *Environmental Science & Technology*, **2012**, 46, 6637-44	10.3	82
130	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	163
129	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 2. Gas and particle phase formic acid. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		45
128	Images reveal that atmospheric particles can undergo liquid-liquid phase separations. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 13188-93	11.5	166
127	Observations of glyoxal and formaldehyde as metrics for the anthropogenic impact on rural photochemistry. *Atmospheric Chemistry and Physics*, **2012**, 12, 9529-9543	6.8	58

126	Mixing state and compositional effects on CCN activity and droplet growth kinetics of size-resolved CCN in an urban environment. *Atmospheric Chemistry and Physics*, **2012**, 12, 10239-10255	6.8	43
125	Spatial and seasonal variations of fine particle water-soluble organic carbon (WSOC) over the southeastern United States: implications for secondary organic aerosol formation. *Atmospheric Chemistry and Physics*, **2012**, 12, 6593-6607	6.8	67
124	Characterization of iron speciation in urban and rural single particles using XANES spectroscopy and micro X-ray fluorescence measurements: investigating the relationship between speciation and fractional iron solubility. *Atmospheric Chemistry and Physics*, **2012**, 12, 745-756	6.8	71
123	Secondary organic aerosol formation from methacrolein photooxidation: roles of NOx level, relative humidity and aerosol acidity. *Environmental Chemistry*, **2012**, 9, 247	3.2	51
122	Airborne cloud condensation nuclei measurements during the 2006 Texas Air Quality Study. *Journal of Geophysical Research*, **2011**, 116,		75
121	Light-absorbing soluble organic aerosol in Los Angeles and Atlanta: A contrast in secondary organic aerosol. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	162
120	Water-soluble organic aerosol in the Los Angeles Basin and outflow regions: Airborne and ground measurements during the 2010 CalNex field campaign. *Journal of Geophysical Research*, **2011**, 116,		45
119	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. *Atmospheric Chemistry and Physics*, **2011**, 11, 12049-12064	6.8	418
118	The 2005 Study of Organic Aerosols at Riverside (SOAR-1): instrumental intercomparisons and fine particle composition. *Atmospheric Chemistry and Physics*, **2011**, 11, 12387-12420	6.8	111
117	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model. *Atmospheric Chemistry and Physics*, **2011**, 11, 12673-12696	6.8	199
116	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. *Atmospheric Chemistry and Physics*, **2011**, 11, 13325-13337	6.8	86
115	Mass absorption efficiency of elemental carbon and water-soluble organic carbon in Beijing, China. *Atmospheric Chemistry and Physics*, **2011**, 11, 11497-11510	6.8	212
114	Filterable water-soluble organic nitrogen in fine particles over the southeastern USA during summer. *Atmospheric Environment*, **2011**, 45, 6040-6047	5.3	40
113	Secondary organic aerosol formation in cloud droplets and aqueous particles (aqSOA): a review of laboratory, field and model studies. *Atmospheric Chemistry and Physics*, **2011**, 11, 11069-11102	6.8	855
112	A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid. *Atmospheric Measurement Techniques*, **2011**, 4, 2093-2103	4	65
111	Characterization of soluble iron in urban aerosols using near-real time data. *Journal of Geophysical Research*, **2010**, 115,		34
110	Synthesis of satellite (MODIS), aircraft (ICARTT), and surface (IMPROVE, EPA-AQS, AERONET) aerosol observations over eastern North America to improve MODIS aerosol retrievals and constrain surface aerosol concentrations and sources. *Journal of Geophysical Research*, **2010**, 115,		126
109	Investigation of cloud condensation nuclei properties and droplet growth kinetics of the water-soluble aerosol fraction in Mexico City. *Journal of Geophysical Research*, **2010**, 115,		75

108	Water-Soluble Organic Aerosol material and the light-absorption characteristics of aqueous extracts measured over the Southeastern United States. *Atmospheric Chemistry and Physics*, **2010**, 10, 5965-5977	6.8	349
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29	Biomass burning impact on PM_{2.5} over the southeastern US during 2007: integrating chemically speciated FRM filter measurements, MODIS fire counts and PMF analysis		5
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27	Comparison of the chemical evolution and characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign		2
26	Secondary organic aerosol formation in cloud droplets and aqueous particles (aqSOA): a review of laboratory, field and model studies		12
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24	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model		6
23	Mixing state and compositional effects on CCN activity and droplet growth kinetics of size-resolved CCN in an urban environment		5
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