

# Jose L Jimenez

## List of Publications by Citations

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626

papers

60,809

citations

126

h-index

233

g-index

816

ext. papers

70,367

ext. citations

7.2

avg, IF

7.48

L-index

#	Paper	IF	Citations
626	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5155-5236	6.8	2861
625	Evolution of organic aerosols in the atmosphere. <i>Science</i> , <b>2009</b> , 326, 1525-9	33.3	2767
624	Field-deployable, high-resolution, time-of-flight aerosol mass spectrometer. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 8281-9	7.8	1699
623	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenically-influenced Northern Hemisphere midlatitudes. <i>Geophysical Research Letters</i> , <b>2007</b> , 34, n/a-n/a	4.9	1497
622	Chemical and microphysical characterization of ambient aerosols with the aerodyne aerosol mass spectrometer. <i>Mass Spectrometry Reviews</i> , <b>2007</b> , 26, 185-222	11	1443
621	O/C and OM/OC ratios of primary, secondary, and ambient organic aerosols with high-resolution time-of-flight aerosol mass spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4478-85	10.3	1324
620	Interpretation of organic components from Positive Matrix Factorization of aerosol mass spectrometric data. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 2891-2918	6.8	1016
619	Secondary organic aerosol formation from anthropogenic air pollution: Rapid and higher than expected. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	895
618	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4625-4641	6.8	749
617	Particle Morphology and Density Characterization by Combined Mobility and Aerodynamic Diameter Measurements. Part 1: Theory. <i>Aerosol Science and Technology</i> , <b>2004</b> , 38, 1185-1205	3.4	727
616	Ambient aerosol sampling using the Aerodyne Aerosol Mass Spectrometer. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		694
615	Carbon oxidation state as a metric for describing the chemistry of atmospheric organic aerosol. <i>Nature Chemistry</i> , <b>2011</b> , 3, 133-9	17.6	689
614	A New Time-of-Flight Aerosol Mass Spectrometer (TOF-AMS) Instrument Description and First Field Deployment. <i>Aerosol Science and Technology</i> , <b>2005</b> , 39, 637-658	3.4	638
613	A generalised method for the extraction of chemically resolved mass spectra from Aerodyne aerosol mass spectrometer data. <i>Journal of Aerosol Science</i> , <b>2004</b> , 35, 909-922	4.3	615
612	Marine aerosol formation from biogenic iodine emissions. <i>Nature</i> , <b>2002</b> , 417, 632-6	50.4	611
611	Understanding atmospheric organic aerosols via factor analysis of aerosol mass spectrometry: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 3045-67	4.4	589
610	Evaluation of Composition-Dependent Collection Efficiencies for the Aerodyne Aerosol Mass Spectrometer using Field Data. <i>Aerosol Science and Technology</i> , <b>2012</b> , 46, 258-271	3.4	578

609	Elemental ratio measurements of organic compounds using aerosol mass spectrometry: characterization, improved calibration, and implications. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 253-272	6.8	563
608	Deconvolution and quantification of hydrocarbon-like and oxygenated organic aerosols based on aerosol mass spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 4938-52	10.3	551
607	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , <b>2020</b> , 142, 105832	12.9	525
606	Hydrocarbon-like and oxygenated organic aerosols in Pittsburgh: insights into sources and processes of organic aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 3289-3311	6.8	505
605	Absorption Angstrom Exponent in AERONET and related data as an indicator of aerosol composition. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1155-1169	6.8	463
604	Rainforest aerosols as biogenic nuclei of clouds and precipitation in the Amazon. <i>Science</i> , <b>2010</b> , 329, 1513-1516	13.6	461
603	Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) [Part 1: Fine particle composition and organic source apportionment. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 6633-6653	6.8	440
602	Elemental analysis of organic species with electron ionization high-resolution mass spectrometry. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 8350-8	7.8	435
601	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , <b>2018</b> , 359, 760-764	33.3	421
600	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12049-12064	6.8	418
599	Changes in organic aerosol composition with aging inferred from aerosol mass spectra. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6465-6474	6.8	377
598	A missing sink for gas-phase glyoxal in Mexico City: Formation of secondary organic aerosol. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	376
597	Response of an aerosol mass spectrometer to organonitrates and organosulfates and implications for atmospheric chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6670-5	11.5	366
596	Fast airborne aerosol size and chemistry measurements above Mexico City and Central Mexico during the MILAGRO campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 4027-4048	6.8	361
595	Chase Studies of Particulate Emissions from in-use New York City Vehicles. <i>Aerosol Science and Technology</i> , <b>2004</b> , 38, 555-573	3.4	359
594	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , <b>2017</b> , 55, 509-559	23.1	359
593	Emissions from biomass burning in the Yucatan. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5785-5812	6.8	358
592	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1649-1665	6.8	353

591	A simplified description of the evolution of organic aerosol composition in the atmosphere. <i>Geophysical Research Letters</i> , <b>2010</b> , 37,	4.9	352
590	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12109-12136	6.8	349
589	Characterization of urban and rural organic particulate in the Lower Fraser Valley using two Aerodyne Aerosol Mass Spectrometers. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 5745-5758	5.3	344
588	Quantitative sampling using an Aerodyne aerosol mass spectrometer 1. Techniques of data interpretation and error analysis. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		332
587	Organic aerosols in the Earth's atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7614-8	10.3	322
586	A case study of urban particle acidity and its influence on secondary organic aerosol. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3213-9	10.3	308
585	Characterization of primary organic aerosol emissions from meat cooking, trash burning, and motor vehicles with high-resolution aerosol mass spectrometry and comparison with ambient and chamber observations. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2443-9	10.3	303
584	Characterization of ambient aerosols in Mexico City during the MCMA-2003 campaign with Aerosol Mass Spectrometry: results from the CENICA Supersite. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 925-946	6.8	302
583	An overview of the MILAGRO 2006 Campaign: Mexico City emissions and their transport and transformation. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 8697-8760	6.8	296
582	Ten scientific reasons in support of airborne transmission of SARS-CoV-2. <i>Lancet, The</i> , <b>2021</b> , 397, 1603-1605	10.5	294
581	Modeling organic aerosols in a megacity: potential contribution of semi-volatile and intermediate volatility primary organic compounds to secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5491-5514	6.8	292
580	Cloud condensation nuclei in pristine tropical rainforest air of Amazonia: size-resolved measurements and modeling of atmospheric aerosol composition and CCN activity. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7551-7575	6.8	289
579	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10845-10895	6.8	280
578	Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5257-5280	6.8	279
577	Real-time methods for estimating organic component mass concentrations from aerosol mass spectrometer data. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 910-6	10.3	277
576	Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event. <i>Indoor Air</i> , <b>2021</b> , 31, 314-323	5.4	274
575	High concentrations of biological aerosol particles and ice nuclei during and after rain. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 6151-6164	6.8	268
574	Relating hygroscopicity and composition of organic aerosol particulate matter. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1155-1165	6.8	268

573	Evaluation of the volatility basis-set approach for the simulation of organic aerosol formation in the Mexico City metropolitan area. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 525-546	6.8	266
572	Measurements of secondary organic aerosol from oxidation of cycloalkenes, terpenes, and m-xylene using an Aerodyne aerosol mass spectrometer. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5674-88	10.3	259
571	Air quality in North America's most populous city [overview of the MCMA-2003 campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 2447-2473	6.8	257
570	Chemically-resolved aerosol volatility measurements from two megacity field studies. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7161-7182	6.8	246
569	Apportionment of primary and secondary organic aerosols in southern California during the 2005 study of organic aerosols in riverside (SOAR-1). <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7655-62	10.3	244
568	Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter-spring: implications for radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12453-12473	6.8	236
567	Evaluation of recently-proposed secondary organic aerosol models for a case study in Mexico City. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5681-5709	6.8	236
566	Insights into the chemistry of new particle formation and growth events in Pittsburgh based on aerosol mass spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 4797-809	10.3	233
565	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 6159-6176	6.8	232
564	Loading-dependent elemental composition of Pinene SOA particles. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 771-782	6.8	230
563	Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 1074-1093	10.3	229
562	Analysis of aircraft and satellite measurements from the Intercontinental Chemical Transport Experiment (INTEX-B) to quantify long-range transport of East Asian sulfur to Canada. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2999-3014	6.8	229
561	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1989-2013	6.8	226
560	Oxygenated and water-soluble organic aerosols in Tokyo. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		223
559	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2103-2162	6.8	206
558	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4623-4630	4.9	206
557	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 9233-9257	4.4	201
556	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12673-12696	6.8	199

555	Chemical composition, sources, and aging process of submicron aerosols in Beijing: Contrast between summer and winter. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1955-1977	4.4	197
554	Aqueous-phase mechanism for secondary organic aerosol formation from isoprene: application to the Southeast United States and co-benefit of SO emission controls. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1603-1618	6.8	197
553	Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		196
552	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. <i>Aerosol Science and Technology</i> , <b>2004</b> , 38, 1206-1222	3.4	196
551	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1516-21	11.5	195
550	Time- and size-resolved chemical composition of submicron particles in Pittsburgh: Implications for aerosol sources and processes. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		193
549	Quantitative estimates of the volatility of ambient organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5409-5424	6.8	191
548	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9739-9760	6.8	188
547	Secondary organic aerosol formation and primary organic aerosol oxidation from biomass-burning smoke in a flow reactor during FLAME-3. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11551-11571	6.8	186
546	Modeling organic aerosols in a megacity: comparison of simple and complex representations of the volatility basis set approach. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6639-6662	6.8	184
545	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5823-5838	6.8	184
544	Design, Modeling, Optimization, and Experimental Tests of a Particle Beam Width Probe for the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , <b>2005</b> , 39, 1143-1163	3.4	182
543	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5830-5866	4.4	178
542	Formation of nitrogen-containing oligomers by methylglyoxal and amines in simulated evaporating cloud droplets. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 984-91	10.3	176
541	Secondary organic aerosol-forming reactions of glyoxal with amino acids. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2818-24	10.3	175
540	Biomass burning dominates brown carbon absorption in the rural southeastern United States. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 653-664	4.9	173
539	Chemically-resolved volatility measurements of organic aerosol from different sources. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 5351-7	10.3	172
538	Organic haze on Titan and the early Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18035-42	11.5	171

537	Sources, distribution, and acidity of sulfate-ammonium aerosol in the Arctic in winter/spring. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 7301-7318	5.3	170
536	Sources, seasonality, and trends of southeast US aerosol: an integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 10411-10433	6.8	168
535	Development and Characterization of a Fast-Stepping/Scanning Thermodenuder for Chemically-Resolved Aerosol Volatility Measurements. <i>Aerosol Science and Technology</i> , <b>2008</b> , 42, 395-407	7.4	167
534	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		166
533	Characterization of an Aerodyne Aerosol Mass Spectrometer (AMS): Intercomparison with Other Aerosol Instruments. <i>Aerosol Science and Technology</i> , <b>2005</b> , 39, 760-770	3.4	166
532	The importance of aerosol mixing state and size-resolved composition on CCN concentration and the variation of the importance with atmospheric aging of aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 7267-7283	6.8	164
531	New particle formation from photooxidation of diiodomethane (CH <sub>2</sub> I <sub>2</sub> ). <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		164
530	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4785-4797	6.8	162
529	Airborne transmission of respiratory viruses. <i>Science</i> , <b>2021</b> , 373,	33.3	160
528	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11807-11833	6.8	159
527	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) [Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5315-5341	6.8	157
526	Secondary organic aerosol formation by self-reactions of methylglyoxal and glyoxal in evaporating droplets. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8184-90	10.3	156
525	Evolution of Asian aerosols during transpacific transport in INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7257-7287	6.8	155
524	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	153
523	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> , <b>2008</b> , 8, 5649-5667	6.8	151
522	Gas-particle partitioning of primary organic aerosol emissions: 3. Biomass burning. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 11,327-11,338	4.4	144
521	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 11415-11438	6.8	143
520	Measurements of heterogeneous ice nuclei in the western United States in springtime and their relation to aerosol characteristics. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		143

519	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 3299-3319	6.8	141
518	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 1281-1309	6.1	140
517	Chemical Smoke Marker Emissions During Flaming and Smoldering Phases of Laboratory Open Burning of Wildland Fuels. <i>Aerosol Science and Technology</i> , <b>2010</b> , 44, i-v	3.4	140
516	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10330-9	10.3	139
515	Seasonal and diurnal variations of submicron organic aerosol in Tokyo observed using the Aerodyne aerosol mass spectrometer. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		139
514	Quantitative sampling using an Aerodyne aerosol mass spectrometer 2. Measurements of fine particulate chemical composition in two U.K. cities. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		139
513	Rethinking the global secondary organic aerosol (SOA) budget: stronger production, faster removal, shorter lifetime. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7917-7941	6.8	137
512	Detection of particle-phase polycyclic aromatic hydrocarbons in Mexico City using an aerosol mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2007</b> , 263, 152-170	1.9	137
511	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1039-1050	6.8	136
510	Quantification of Gas-Wall Partitioning in Teflon Environmental Chambers Using Rapid Bursts of Low-Volatility Oxidized Species Generated in Situ. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 5757-65	10.3	134
509	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12067-12084	6.8	133
508	Correlation of secondary organic aerosol with odd oxygen in Mexico City. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	131
507	Dismantling myths on the airborne transmission of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). <i>Journal of Hospital Infection</i> , <b>2021</b> , 110, 89-96	6.9	130
506	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5969-5991	6.8	129
505	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 6213-6239	6.8	129
504	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 10,355	4.4	129
503	Fine particle pH and gas-particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5703-5719	6.8	128
502	Numerical Characterization of Particle Beam Collimation: Part II Integrated Aerodynamic-Lens/Nozzle System. <i>Aerosol Science and Technology</i> , <b>2004</b> , 38, 619-638	3.4	128



501	Sources and transformations of particle-bound polycyclic aromatic hydrocarbons in Mexico City. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 1733-1745	6.8	127
500	Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 6191-6215	6.8	124
499	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 8585-8605	6.8	123
498	On the implications of aerosol liquid water and phase separation for organic aerosol mass. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 343-369	6.8	122
497	Atmospheric condensed-phase reactions of glyoxal with methylamine. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	121
496	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7735-7744	4.9	119
495	Biomass burning and urban air pollution over the Central Mexican Plateau. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 4929-4944	6.8	119
494	Direct evidence for chlorine-enhanced urban ozone formation in Houston, Texas. <i>Atmospheric Environment</i> , <b>2003</b> , 37, 1393-1400	5.3	119
493	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2038-2043	11.5	117
492	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6108-6129	4.4	116
491	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4553-4564	5.3	116
490	Insights on organic aerosol aging and the influence of coal combustion at a regional receptor site of central eastern China. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10095-10112	6.8	115
489	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. <i>Nature Geoscience</i> , <b>2017</b> , 10, 486-489	18.3	114
488	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5773-5801	6.8	112
487	The 2005 Study of Organic Aerosols at Riverside (SOAR-1): instrumental intercomparisons and fine particle composition. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12387-12420	6.8	111
486	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2200-9	10.3	110
485	Measurements of Mexico City nanoparticle size distributions: Observations of new particle formation and growth. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	110
484	Organosulfates as tracers for secondary organic aerosol (SOA) formation from 2-methyl-3-buten-2-ol (MBO) in the atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9437-43	10.3	109

483	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 6949-6981	6.8	109
482	Design and Operation of a Pressure-Controlled Inlet for Airborne Sampling with an Aerodynamic Aerosol Lens. <i>Aerosol Science and Technology</i> , <b>2008</b> , 42, 465-471	3.4	109
481	Prediction of cloud condensation nucleus number concentration using measurements of aerosol size distributions and composition and light scattering enhancement due to humidity. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		108
480	CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4795-4807	6.8	105
479	Modeling the radical chemistry in an oxidation flow reactor: radical formation and recycling, sensitivities, and the OH exposure estimation equation. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 4418-32	2.8	104
478	Analysis of CCN activity of Arctic aerosol and Canadian biomass burning during summer 2008. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 2735-2756	6.8	103
477	The effect of dry and wet deposition of condensable vapors on secondary organic aerosols concentrations over the continental US. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1-18	6.8	101
476	Reduction in biomass burning aerosol light absorption upon humidification: roles of inorganically-induced hygroscopicity, particle collapse, and photoacoustic heat and mass transfer. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 8949-8966	6.8	101
475	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2943-2970	6.8	98
474	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7411-7433	6.8	97
473	Global transformation and fate of SOA: Implications of low-volatility SOA and gas-phase fragmentation reactions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 4169-4195	4.4	96
472	Major components of atmospheric organic aerosol in southern California as determined by hourly measurements of source marker compounds. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 11577-11603	6.8	96
471	Observational insights into aerosol formation from isoprene. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11403-13	10.3	95
470	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5417-5432	6.8	95
469	Aerosol cloud drop concentration closure in warm cumulus. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a		95
468	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 981-997	6.1	94
467	An Eddy-Covariance System for the Measurement of Surface/Atmosphere Exchange Fluxes of Submicron Aerosol Chemical Species First Application Above an Urban Area. <i>Aerosol Science and Technology</i> , <b>2008</b> , 42, 636-657	3.4	94
466	HO <sub>2</sub> radical chemistry in oxidation flow reactors with low-pressure mercury lamps systematically examined by modeling. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 4863-4890	4	93

465	Characterizing the aging of biomass burning organic aerosol by use of mixing ratios: a meta-analysis of four regions. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 13093-102	10.3	93
464	Modeling anthropogenically controlled secondary organic aerosols in a megacity: a simplified framework for global and climate models. <i>Geoscientific Model Development</i> , <b>2011</b> , 4, 901-917	6.3	93
463	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. <i>Environmental Sciences: Processes and Impacts</i> , <b>2019</b> , 21, 1280-1300	4.3	92
462	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. <i>Scientific Reports</i> , <b>2017</b> , 7, 4926	4.9	92
461	Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2399-2421	6.8	92
460	Non-OH chemistry in oxidation flow reactors for the study of atmospheric chemistry systematically examined by modeling. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4283-4305	6.8	90
459	Organic nitrate aerosol formation via NO <sub>3</sub> + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 13377-13392	6.8	90
458	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		89
457	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 8283-8308	6.8	89
456	Aircraft-based aerosol size and composition measurements during ACE-Asia using an Aerodyne aerosol mass spectrometer. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		88
455	Liquid Water: Ubiquitous Contributor to Aerosol Mass. <i>Environmental Science and Technology Letters</i> , <b>2016</b> , 3, 257-263	11	86
454	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8110-8115	11.5	86
453	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 13325-13337	6.8	86
452	Modeling the multiday evolution and aging of secondary organic aerosol during MILAGRO 2006. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 3496-503	10.3	85
451	Chemical speciation of organic aerosol during the International Consortium for Atmospheric Research on Transport and Transformation 2004: Results from in situ measurements. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		83
450	A Chemical Ionization High-Resolution Time-of-Flight Mass Spectrometer Coupled to a Micro Orifice Volatilization Impactor (MOVI-HRToF-CIMS) for Analysis of Gas and Particle-Phase Organic Species. <i>Aerosol Science and Technology</i> , <b>2012</b> , 46, 1313-1327	3.4	82
449	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2007-2025	6.8	81
448	Exploring the observational constraints on the simulation of brown carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 635-653	6.8	80

447	Investigation of the correlation between odd oxygen and secondary organic aerosol in Mexico City and Houston. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 8947-8968	6.8	80
446	Characterization of a thermodenuder-particle beam mass spectrometer system for the study of organic aerosol volatility and composition. <i>Atmospheric Measurement Techniques</i> , <b>2009</b> , 2, 15-31	4	79
445	Impact of Thermal Decomposition on Thermal Desorption Instruments: Advantage of Thermogram Analysis for Quantifying Volatility Distributions of Organic Species. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 8491-8500	10.3	78
444	A comparison of particle mass spectrometers during the 1999 Atlanta Supersite Project. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		78
443	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 3687-3701	6.8	77
442	Airborne measurements of organosulfates over the continental U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2990-3005	4.4	77
441	Cloud Activating Properties of Aerosol Observed during CELTIC. <i>Journals of the Atmospheric Sciences</i> , <b>2007</b> , 64, 441-459	2.1	77
440	Semicontinuous measurements of gas/particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 1527-1546	6.8	76
439	Effects of gas/wall partitioning in Teflon tubing and instrumentation on time-resolved measurements of gas-phase organic compounds. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 4687-4696	4.6	75
438	A large source of cloud condensation nuclei from new particle formation in the tropics. <i>Nature</i> , <b>2019</b> , 574, 399-403	50.4	75
437	Airborne cloud condensation nuclei measurements during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		75
436	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7841-7858	6.8	74
435	Can 3-D models explain the observed fractions of fossil and non-fossil carbon in and near Mexico City?. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10997-11016	6.8	74
434	Measurements of HNO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> using ion drift-chemical ionization mass spectrometry during the MILAGRO/MCMA-2006 campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 6823-6836	6.8	73
433	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , <b>2021</b> , 372, 689-691	33.3	73
432	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8682-8694	10.3	71
431	Aerosol optical properties in the southeastern United States in summer [Part I]: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4987-5007	6.8	71
430	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7383-7414	4.4	71

429	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10219-10241	6.8	71
428	Primary and secondary contributions to aerosol light scattering and absorption in Mexico City during the MILAGRO 2006 campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 3721-3730	6.8	71
427	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17769-17800	6.8	71
426	Inorganic Salt Interference on CO in Aerodyne AMS and ACSM Organic Aerosol Composition Studies. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 10494-10503	10.3	70
425	Diurnal cycle of fossil and nonfossil carbon using radiocarbon analyses during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6818-6835	4.4	70
424	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6195-6212	6.8	70
423	Remote Sensing of NO and NO <sub>2</sub> Emissions from Heavy-Duty Diesel Trucks Using Tunable Diode Lasers. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 2380-2387	10.3	70
422	Heterogeneous N <sub>2</sub> O <sub>5</sub> Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4345-4372	4.4	69
421	Kinetics of submicron oleic acid aerosols with ozone: A novel aerosol mass spectrometric technique. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 71-1-71-4	4.9	69
420	Towards an online-coupled chemistry-climate model: evaluation of trace gases and aerosols in COSMO-ART. <i>Geoscientific Model Development</i> , <b>2011</b> , 4, 1077-1102	6.3	68
419	Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 2383-2397	6.8	67
418	Semivolatile POA and parameterized total combustion SOA in CMAQv5.2: impacts on source strength and partitioning. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11107-11133	6.8	67
417	Aerosol optical properties relevant to regional remote sensing of CCN activity and links to their organic mass fraction: airborne observations over Central Mexico and the US West Coast during MILAGRO/INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 6727-6742	6.8	67
416	A tunable diode laser system for the remote sensing of on-road vehicle emissions. <i>Applied Physics B: Lasers and Optics</i> , <b>1998</b> , 67, 433-441	1.9	67
415	Impact of palmitic acid coating on the water uptake and loss of ammonium sulfate particles. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 1951-1961	6.8	67
414	Understanding sources of organic aerosol during CalNex-2010 using the CMAQ-VBS. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4081-4100	6.8	66
413	Trends in sulfate and organic aerosol mass in the Southeast U.S.: Impact on aerosol optical depth and radiative forcing. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 7701-7709	4.9	66
412	Droplet activation properties of organic aerosols observed at an urban site during CalNex-LA. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2903-2917	4.4	65

411	Elemental composition of organic aerosol: The gap between ambient and laboratory measurements. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4182-4189	4.9	63
410	Detailed chemical characterization of unresolved complex mixtures in atmospheric organics: Insights into emission sources, atmospheric processing, and secondary organic aerosol formation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6783-6796	4.4	63
409	Secondary organic aerosol formation from semi- and intermediate-volatility organic compounds and glyoxal: Relevance of O/C as a tracer for aqueous multiphase chemistry. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 978-982	4.9	63
408	Contribution of human-related sources to indoor volatile organic compounds in a university classroom. <i>Indoor Air</i> , <b>2016</b> , 26, 925-938	5.4	63
407	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 4505-4510	11.5	61
406	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11563-11580	6.8	60
405	Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		60
404	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 7561-7582	6.8	60
403	Exhaled CO <sub>2</sub> as a COVID-19 Infection Risk Proxy for Different Indoor Environments and Activities. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 392-397	11	59
402	Aging Effects on Biomass Burning Aerosol Mass and Composition: A Critical Review of Field and Laboratory Studies. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10007-10022	10.3	58
401	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 7771-7796	4.4	57
400	Observations of total RONO <sub>2</sub> over the boreal forest: NO <sub>x</sub> sinks and HNO <sub>3</sub> sources. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 4543-4562	6.8	57
399	Heterogeneous formation of nitryl chloride and its role as a nocturnal NO <sub>x</sub> reservoir species during CalNex-LA 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 10,638	4.4	57
398	Microphysical explanation of the RH-dependent water affinity of biogenic organic aerosol and its importance for climate. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5167-5177	4.9	56
397	Real-time aerosol mass spectrometry with millisecond resolution. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 303, 15-26	1.9	56
396	Technical Note: Use of a beam width probe in an Aerosol Mass Spectrometer to monitor particle collection efficiency in the field. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 549-556	6.8	56
395	Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 9952-62	10.3	54
394	Revealing important nocturnal and day-to-day variations in fire smoke emissions through a multiplatform inversion. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 3609-3618	4.9	54

393	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees, 1570 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 2935-2951	6.8	54
392	Spatially and seasonally resolved estimate of the ratio of organic mass to organic carbon. <i>Atmospheric Environment</i> , <b>2014</b> , 87, 34-40	5.3	53
391	Mass-spectrometric identification of primary biological particle markers and application to pristine submicron aerosol measurements in Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 11415-11429	6.8	53
390	Airborne characterization of subsaturated aerosol hygroscopicity and dry refractive index from the surface to 6.5 km during the SEAC4RS campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4188-4210	4.4	52
389	Size-resolved aerosol composition and its link to hygroscopicity at a forested site in Colorado. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 2657-2667	6.8	52
388	Gas-Phase Carboxylic Acids in a University Classroom: Abundance, Variability, and Sources. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 5454-5463	10.3	51
387	The potential role of methanesulfonic acid (MSA) in aerosol formation and growth and the associated radiative forcings. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3137-3160	6.8	51
386	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 6345-6367	6.8	51
385	Methods to extract molecular and bulk chemical information from series of complex mass spectra with limited mass resolution. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 389, 26-38	1.9	50
384	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 547-567	6.1	50
383	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 1. Bulk water-soluble organic carbon. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		50
382	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 4323-4351	7.1	50
381	Evaluation of the new capture vaporizer for aerosol mass spectrometers (AMS) through field studies of inorganic species. <i>Aerosol Science and Technology</i> , <b>2017</b> , 51, 735-754	3.4	49
380	Comprehensive characterization of atmospheric organic carbon at a forested site. <i>Nature Geoscience</i> , <b>2017</b> , 10, 748-753	18.3	49
379	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 467-493	6.8	49
378	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10013-10060	6.8	49
377	Organic photolysis reactions in tropospheric aerosols: effect on secondary organic aerosol formation and lifetime. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 9253-9269	6.8	49
376	The characterisation of pollution aerosol in a changing photochemical environment. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 5573-5588	6.8	49

375	Nitrogen incorporation in CH <sub>4</sub> -N <sub>2</sub> photochemical aerosol produced by far ultraviolet irradiation. <i>Astrobiology</i> , <b>2012</b> , 12, 315-26	3-7	48
374	Acid-catalyzed reactions of hexanal on sulfuric acid particles: Identification of reaction products. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 6863-6878	5-3	48
373	Demonstration of a VUV Lamp Photoionization Source for Improved Organic Speciation in an Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , <b>2007</b> , 41, 828-839	3-4	48
372	Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 4794-4802	10-3	47
371	Phase state of ambient aerosol linked with water uptake and chemical aging in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11163-11176	6.8	47
370	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11779-11801	6.8	47
369	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model (Part 2: Assessing the influence of vapor wall losses. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3041-3059	6.8	46
368	Secondary organic aerosol formation from in situ OH, O <sub>3</sub> , and NO <sub>3</sub> ; oxidation of ambient forest air in an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5331-5354	6.8	46
367	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC <sup>4</sup> RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7085-7102	6.8	46
366	Impact of trash burning on air quality in Mexico City. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4950-7	10-3	46
365	Aerosol optical properties at Pasadena, CA during CalNex 2010. <i>Atmospheric Environment</i> , <b>2012</b> , 55, 190-200	3-9	45
364	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1975-1993	6.8	45
363	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 2. Gas and particle phase formic acid. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		45
362	Collection Efficiency of the Aerosol Mass Spectrometer for Chamber-Generated Secondary Organic Aerosols. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 294-309	3-4	45
361	OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 14875-14899	6.8	45
360	Measurements of delays of gas-phase compounds in a wide variety of tubing materials due to gas-wall interactions. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 3453-3461	4	44
359	Aerosol transport and wet scavenging in deep convective clouds: A case study and model evaluation using a multiple passive tracer analysis approach. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 8448-8468	4-4	44
358	Molecular marker characterization of the organic composition of submicron aerosols from Mediterranean urban and rural environments under contrasting meteorological conditions. <i>Atmospheric Environment</i> , <b>2012</b> , 61, 482-489	5-3	44



357	An evaluation of global organic aerosol schemes using airborne observations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2637-2665	6.8	44
356	The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 1857-1877	6.1	43
355	The First Combined Thermal Desorption Aerosol Gas Chromatograph/Aerosol Mass Spectrometer (TAG-AMS). <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 358-370	3.4	43
354	In situ concentration of semi-volatile aerosol using water-condensation technology. <i>Journal of Aerosol Science</i> , <b>2005</b> , 36, 866-880	4.3	42
353	Chemical characteristics of North American surface layer outflow: Insights from Chebogue Point, Nova Scotia. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		42
352	Ion mobility spectrometry-mass spectrometry (IMS/MS) for on- and offline analysis of atmospheric gas and aerosol species. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 3245-3262	4	42
351	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 6611-6629	6.8	40
350	Evaluation of the new capture vapourizer for aerosol mass spectrometers (AMS) through laboratory studies of inorganic species. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2897-2921	4	39
349	Anthropogenic influences on the physical state of submicron particulate matter over a tropical forest. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1759-1773	6.8	39
348	Statistical precision of the intensities retrieved from constrained fitting of overlapping peaks in high-resolution mass spectra. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 2333-2345	4	39
347	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8883-8897	6.8	39
346	Characterization of organic aerosol across the global remote troposphere: a comparison of ATom measurements and global chemistry models. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4607-4635	6.8	38
345	Aerosol size distributions during the Atmospheric Tomography Mission (ATom): methods, uncertainties, and data products. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 3081-3099	4	38
344	Secondary Organic Aerosol Formation via 2-Methyl-3-buten-2-ol Photooxidation: Evidence of Acid-Catalyzed Reactive Uptake of Epoxides. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 242-247	1.1	38
343	Inconsistency of ammonium sulfate aerosol ratios with thermodynamic models in the eastern US: a possible role of organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5107-5118	6.8	38
342	Characterization of particle cloud droplet activity and composition in the free troposphere and the boundary layer during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6627-6644	6.8	38
341	Emission, oxidation, and secondary organic aerosol formation of volatile organic compounds as observed at Chebogue Point, Nova Scotia. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		38
340	Ambient Measurements of Highly Oxidized Gas-Phase Molecules during the Southern Oxidant and Aerosol Study (SOAS) 2013. <i>ACS Earth and Space Chemistry</i> , <b>2018</b> , 2, 653-672	3.2	37

339	Gas and aerosol carbon in California: comparison of measurements and model predictions in Pasadena and Bakersfield. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5243-5258	6.8	37
338	Photoelectron spectroscopy of CdSe nanocrystals in the gas phase: a direct measure of the evanescent electron wave function of quantum dots. <i>Nano Letters</i> , <b>2013</b> , 13, 2924-30	11.5	37
337	Reduction in haze formation rate on prebiotic Earth in the presence of hydrogen. <i>Astrobiology</i> , <b>2009</b> , 9, 447-53	3.7	37
336	A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 2091-2115	6.8	37
335	Determination of particulate lead using aerosol mass spectrometry: MILAGRO/MCMA-2006 observations. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5371-5389	6.8	37
334	Laboratory evaluation of species-dependent relative ionization efficiencies in the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , <b>2018</b> , 52, 626-641	3.4	36
333	Estimating the contribution of organic acids to northern hemispheric continental organic aerosol. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6084-6090	4.9	36
332	Laboratory studies on secondary organic aerosol formation from crude oil vapors. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 12566-74	10.3	36
331	Quantitative detection of iodine in the stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1860-1866	11.5	35
330	Evaluation of European air quality modelled by CAMx including the volatility basis set scheme. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 10313-10332	6.8	35
329	Eddy covariance measurements with high-resolution time-of-flight aerosol mass spectrometry: a new approach to chemically resolved aerosol fluxes. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 1275-1289	4.1	34
328	Three-dimensional factorization of size-resolved organic aerosol mass spectra from Mexico City. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 195-224	4	34
327	Characterization of On-Road Vehicle NO Emissions by a TILDAS Remote Sensor. <i>Journal of the Air and Waste Management Association</i> , <b>1999</b> , 49, 463-470	2.4	34
326	Functional Group Composition of Secondary Organic Aerosol Formed from Ozonolysis of $\alpha$ -Pinene Under High VOC and Autoxidation Conditions. <i>ACS Earth and Space Chemistry</i> , <b>2018</b> , 2, 1196-1210	3.2	34
325	Aerosol optical properties in the southeastern United States in summer [Part I]: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5009-5019	6.8	33
324	Comment on "The effects of molecular weight and thermal decomposition on the sensitivity of a thermal desorption aerosol mass spectrometer" <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, i-xv	3.4	33
323	Effects of sources and meteorology on particulate matter in the Western Mediterranean Basin: An overview of the DAURE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 4978-5010	4.4	33
322	Spectral absorption of biomass burning aerosol determined from retrieved single scattering albedo during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 10505-10518	6.8	33

321	Comparative analysis of urban atmospheric aerosol by particle-induced X-ray emission (PIXE), proton elastic scattering analysis (PESA), and aerosol mass spectrometry (AMS). <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 6619-24	10.3	33
320	NO <sub>x</sub> Lifetime and NO <sub>y</sub> Partitioning During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 9813-9827	4.4	32
319	Observation and control of shock waves in individual nanoplasmas. <i>Physical Review Letters</i> , <b>2014</b> , 112, 115004	7.4	32
318	Direct Measurements of Gas/Particle Partitioning and Mass Accommodation Coefficients in Environmental Chambers. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11867-11875	10.3	32
317	Interpretation of organic components from positive matrix factorization of aerosol mass spectrometric data		32
316	Organosulfates in aerosols downwind of an urban region in central Amazon. <i>Environmental Sciences: Processes and Impacts</i> , <b>2018</b> , 20, 1546-1558	4.3	32
315	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,368	4.4	32
314	Field intercomparison of the gas/particle partitioning of oxygenated organics during the Southern Oxidant and Aerosol Study (SOAS) in 2013. <i>Aerosol Science and Technology</i> , <b>2017</b> , 51, 30-56	3.4	31
313	How emissions uncertainty influences the distribution and radiative impacts of smoke from fires in North America. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2073-2097	6.8	31
312	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2615-2651	6.8	31
311	Modeling of the chemistry in oxidation flow reactors with high initial NO. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11991-12010	6.8	31
310	Real-time atmospheric chemistry field instrumentation. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7879-84	7.8	31
309	Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. <i>Chem</i> , <b>2020</b> , 6, 3203-3218	16.2	31
308	Response of the Aerodyne Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds: Applications in Field and Laboratory Measurements. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 5176-5186	10.3	30
307	Secondary organic aerosol (SOA) yields from NO <sub>3</sub> radical + isoprene based on nighttime aircraft power plant plume transects. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 11663-11682	6.8	30
306	Chemical evolution of organic aerosol in Los Angeles during the CalNex 2010 study. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10125-10141	6.8	30
305	Submicron particles at Thompson Farm during ICARTT measured using aerosol mass spectrometry. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		30
304	Cross road and mobile tunable infrared laser measurements of nitrous oxide emissions from motor vehicles. <i>Chemosphere</i> , <b>2000</b> , 2, 397-412		30

303	A new method to quantify mineral dust and other aerosol species from aircraft platforms using single-particle mass spectrometry. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 6209-6239	4	30
302	Photochemical model evaluation of 2013 California wild fire air quality impacts using surface, aircraft, and satellite data. <i>Science of the Total Environment</i> , <b>2018</b> , 637-638, 1137-1149	10.2	30
301	Direct measurements of semi-volatile organic compound dynamics show near-unity mass accommodation coefficients for diverse aerosols. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	29
300	Mixing times of organic molecules within secondary organic aerosol particles: a global planetary boundary layer perspective. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 13037-13048	6.8	29
299	Evaluating the impact of new observational constraints on P-S/IVOC emissions, multi-generation oxidation, and chamber wall losses on SOA modeling for Los Angeles, CA. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 9237-9259	6.8	29
298	Implementation of a Markov Chain Monte Carlo method to inorganic aerosol modeling of observations from the MCMA-2003 campaign [Part II]: Model application to the CENICA, Pedregal and Santa Ana sites. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 4889-4904	6.8	29
297	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10433-10457	6.8	29
296	Atmospheric Acetaldehyde: Importance of Air-Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5601-5613	4.9	28
295	Investigation of factors controlling PM variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , <b>2020</b> , 8,	3.6	28
294	Chemical and physical processes controlling the distribution of aerosols in the Lower Fraser Valley, Canada, during the Pacific 2001 field campaign. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 5759-5774	5.3	27
293	Chemical composition of Titan's haze: Are PAHs present?. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a.	4.9	27
292	An overview of the MILAGRO 2006 campaign: Mexico City emissions and their transport and transformation		27
291	Solvents effects on charge transfer from quantum dots. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3759-62	16.4	26
290	Putting a balance on the aerosolization debate around SARS-CoV-2. <i>Journal of Hospital Infection</i> , <b>2020</b> , 105, 569-570	6.9	26
289	Effects of gas-wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 3137-3149	4	26
288	Mapping nanoscale absorption of femtosecond laser pulses using plasma explosion imaging. <i>ACS Nano</i> , <b>2014</b> , 8, 8810-8	16.7	26
287	Radical chemistry in oxidation flow reactors for atmospheric chemistry research. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 2570-2616	58.5	26
286	Speciated measurements of semivolatile and intermediate volatility organic compounds (S/IVOCs) in a pine forest during BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1187-1205	6.8	25

285	Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 7670	4.4	25
284	The formation of sulfate and elemental sulfur aerosols under varying laboratory conditions: implications for early earth. <i>Astrobiology</i> , <b>2010</b> , 10, 773-81	3.7	25
283	Technical Note: Description and Use of the New Jump Mass Spectrum Mode of Operation for the Aerodyne Quadrupole Aerosol Mass Spectrometers (Q-AMS). <i>Aerosol Science and Technology</i> , <b>2007</b> , 41, 865-872	3.4	24
282	The formation, properties and impact of secondary organic aerosol: current and emerging issues		24
281	ClNO <sub>2</sub> Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,994	4.4	24
280	Model Evaluation of New Techniques for Maintaining High-NO Conditions in Oxidation Flow Reactors for the Study of OH-Initiated Atmospheric Chemistry. <i>ACS Earth and Space Chemistry</i> , <b>2018</b> , 2, 72-86	3.2	23
279	Feasibility of the Detection of Trace Elements in Particulate Matter Using Online High-Resolution Aerosol Mass Spectrometry. <i>Aerosol Science and Technology</i> , <b>2012</b> , 46, 1187-1200	3.4	23
278	Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event		23
277	Follow the Carbon: Isotopic Labeling Studies of Early Earth Aerosol. <i>Astrobiology</i> , <b>2016</b> , 16, 822-830	3.7	23
276	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 1846-1861	4.4	22
275	KinSim: A Research-Grade, User-Friendly, Visual Kinetics Simulator for Chemical-Kinetics and Environmental-Chemistry Teaching. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 806-811	2.4	22
274	Aircraft-measured indirect cloud effects from biomass burning smoke in the Arctic and subarctic. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 715-738	6.8	22
273	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12185-12206	6.8	22
272	Chemically Resolved Particle Fluxes Over Tropical and Temperate Forests. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 818-830	3.4	22
271	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 8991-9019	6.8	22
270	Materials Properties and Solvated Electron Dynamics of Isolated Nanoparticles and Nanodroplets Probed with Ultrafast Extreme Ultraviolet Beams. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 609-15	6.4	21
269	Wintertime Aerosol Chemistry in Sub-Arctic Urban Air. <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 313-323	3.4	21
268	An airborne assessment of atmospheric particulate emissions from the processing of Athabasca oil sands. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 5073-5087	6.8	21

267	Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3173-3194	6.8	21
266	Combined effects of surface conditions, boundary layer dynamics and chemistry on diurnal SOA evolution. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6827-6843	6.8	21
265	Evolution of Asian aerosols during transpacific transport in INTEX-B		21
264	How did we get here: what are droplets and aerosols and how far do they go? A historical perspective on the transmission of respiratory infectious diseases.. <i>Interface Focus</i> , <b>2021</b> , 11, 20210049	3.9	21
263	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11225-11237	4.4	21
262	Observational Constraints on the Oxidation of NO <sub>x</sub> in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1468-78	2.8	20
261	Budgets of Organic Carbon Composition and Oxidation in Indoor Air. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 13053-13063	10.3	20
260	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and lab studies		20
259	Anthropogenic control over wintertime oxidation of atmospheric pollutants. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 14826-14835	4.9	20
258	Organic peroxy radical chemistry in oxidation flow reactors and environmental chambers and their atmospheric relevance. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 813-834	6.8	19
257	Simulating reactive nitrogen, carbon monoxide, and ozone in California during ARCTAS-CARB 2008 with high wildfire activity. <i>Atmospheric Environment</i> , <b>2016</b> , 128, 28-44	5.3	19
256	Contributions of biomass-burning, urban, and biogenic emissions to the concentrations and light-absorbing properties of particulate matter in central Amazonia during the dry season. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 7973-8001	6.8	19
255	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget		19
254	Chemically-resolved aerosol volatility measurements from two megacity field studies		19
253	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model [Part 3: Assessing the influence of semi-volatile and intermediate-volatility organic compounds and NO <sub>x</sub> ]. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 4561-4594	6.8	18
252	Viscosities, diffusion coefficients, and mixing times of intrinsic fluorescent organic molecules in brown limonene secondary organic aerosol and tests of the Stokes-Einstein equation. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 1491-1503	6.8	18
251	Ambient observations of sub-1.0 hygroscopic growth factor and (RH) values: Case studies from surface and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 661-674	4.4	18
250	Characterization of the Real Part of Dry Aerosol Refractive Index Over North America From the Surface to 12 km. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 8283	4.4	18

249	Accumulation-mode aerosol number concentrations in the Arctic during the ARCTAS aircraft campaign: Long-range transport of polluted and clean air from the Asian continent. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		18
248	Correction to New particle formation from photooxidation of diiodomethane (CH <sub>2</sub> I <sub>2</sub> ) <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		18
247	Organic aerosol components observed in worldwide datasets from aerosol mass spectrometry		18
246	Is there an aerosol signature of chemical cloud processing?. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16099-16119	6.8	18
245	Evaluation of the new capture vaporizer for aerosol mass spectrometers: Characterization of organic aerosol mass spectra. <i>Aerosol Science and Technology</i> , <b>2018</b> , 52, 725-739	3-4	17
244	Impacts of Aerosol Aging on Laser Desorption/Ionization in Single-Particle Mass Spectrometers. <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 1050-1058	3-4	17
243	Probing molecular associations of field-collected and laboratory-generated SOA with nano-DESI high-resolution mass spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1042-1051	4-4	17
242	Predictions of the glass transition temperature and viscosity of organic aerosols from volatility distributions. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 8103-8122	6.8	17
241	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2974-2983	4-9	17
240	Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and Their Application to COVID-19 Outbreaks.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10-3	16
239	Fine-mode organic mass concentrations and sources in the Amazonian wet season (AMAZE-08)		16
238	Quantification and source characterization of volatile organic compounds from exercising and application of chlorine-based cleaning products in a university athletic center. <i>Indoor Air</i> , <b>2021</b> , 31, 1323-1339	5-4	16
237	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,897	4-4	16
236	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1086-1097	4-4	15
235	A novel framework for molecular characterization of atmospherically relevant organic compounds based on collision cross section and mass-to-charge ratio. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12945-12959	6.8	15
234	Airborne measurements and emission estimates of greenhouse gases and other trace constituents from the 2013 California Yosemite Rim wildfire. <i>Atmospheric Environment</i> , <b>2016</b> , 127, 293-302	5-3	15
233	Fluxes of Fine Particles Over a Semi-Arid Pine Forest: Possible Effects of a Complex Terrain. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 906-915	3-4	15
232	Vertically resolved chemical characteristics and sources of submicron aerosols measured on a Tall Tower in a suburban area near Denver, Colorado in winter. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 13,591-13,605	4-4	15

231	Real-time organic aerosol chemical speciation in the indoor environment using extractive electrospray ionization mass spectrometry. <i>Indoor Air</i> , <b>2021</b> , 31, 141-155	5.4	15
230	An omnipresent diversity and variability in the chemical composition of atmospheric functionalized organic aerosol. <i>Communications Chemistry</i> , <b>2018</b> , 1,	6.3	15
229	Evaluation of the New Capture Vaporizer for Aerosol Mass Spectrometers (AMS): Elemental Composition and Source Apportionment of Organic Aerosols (OA). <i>ACS Earth and Space Chemistry</i> , <b>2018</b> , 2, 410-421	3.2	14
228	Evaluation of the performance of a particle concentrator for online instrumentation. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 2121-2135	4	14
227	Correction to Quantitative sampling using an Aerodyne aerosol mass spectrometer: 1. Techniques of data interpretation and error analysis $\square$ <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		14
226	Measurements and modeling of absorptive partitioning of volatile organic compounds to painted surfaces. <i>Indoor Air</i> , <b>2020</b> , 30, 745-756	5.4	13
225	Natural and Anthropogenically Influenced Isoprene Oxidation in Southeastern United States and Central Amazon. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5980-5991	10.3	13
224	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7079-7087	4.4	13
223	A simplified parameterization of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) for global chemistry and climate models: a case study with GEOS-Chem v11-02-rc. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 2983-3000	6.3	13
222	A Technique for Rapid Gas Chromatography Analysis Applied to Ambient Organic Aerosol Measurements from the Thermal Desorption Aerosol Gas Chromatograph (TAG). <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 1166-1182	3.4	13
221	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1777-1803	4.4	13
220	Chemically-resolved aerosol eddy covariance flux measurements in urban Mexico City during MILAGRO 2006. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 7809-7823	6.8	13
219	Marine aerosols and iodine emissions (Reply). <i>Nature</i> , <b>2005</b> , 433, E13-E14	50.4	13
218	High concentrations of biological aerosol particles and ice nuclei during and after rain		13
217	Biomass burning and urban air pollution over the Central Mexican Plateau		13
216	Exhaled CO <sub>2</sub> as COVID-19 infection risk proxy for different indoor environments and activities		13
215	Always Lost but Never Forgotten: Gas-Phase Wall Losses Are Important in All Teflon Environmental Chambers. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12890-12897	10.3	13
214	Influence of boundary layer dynamics and isoprene chemistry on the organic aerosol budget in a tropical forest. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 9351-9366	4.4	12



213	Elemental ratio measurements of organic compounds using aerosol mass spectrometry: characterization, improved calibration, and implications		12
212	Cloud condensation nuclei in pristine tropical rainforest air of Amazonia: size-resolved measurements and modeling of atmospheric aerosol composition and CCN activity		12
211	The importance of size ranges in aerosol instrument intercomparisons: a case study for the Atmospheric Tomography Mission. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 3631-3655	4	12
210	Performance of a new coaxial ion-molecule reaction region for low-pressure chemical ionization mass spectrometry with reduced instrument wall interactions. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 5829-5844	4	12
209	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11201-11224	6.8	12
208	Autoxidation of Limonene Emitted in a University Art Museum. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 520-524	11	11
207	Evaluating model parameterizations of submicron aerosol scattering and absorption with in situ data from ARCTAS 2008. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 9435-9455	6.8	11
206	Observations of Manaus urban plume evolution and interaction with biogenic emissions in GoAmazon 2014/5. <i>Atmospheric Environment</i> , <b>2018</b> , 191, 513-524	5.3	11
205	The AeroCom evaluation and intercomparison of organic aerosol in global models		11
204	Absorption Angstrom Exponent in AERONET and related data as an indicator of aerosol composition		11
203	Integration of airborne and ground observations of nitryl chloride in the Seoul metropolitan area and the implications on regional oxidation capacity during KORUS-AQ 2016. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 12779-12795	6.8	11
202	Towards a satellite formaldehyde in situ hybrid estimate for organic aerosol abundance. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 2765-2785	6.8	10
201	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 6455-6478	6.8	10
200	Estimates of Regional Source Contributions to the Asian Tropopause Aerosol Layer Using a Chemical Transport Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031506	4.4	10
199	Observational Constraints on the Formation of Cl <sub>2</sub> From the Reactive Uptake of ClNO <sub>2</sub> on Aerosols in the Polluted Marine Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8851-8869	4.4	10
198	Potential contribution of semi-volatile and intermediate volatility primary organic compounds to secondary organic aerosol in the Mexico City region		10
197	Characterization of a real-time tracer for Isoprene Epoxydiols-derived Secondary Organic Aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements		10
196	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area		10

195	Organic and inorganic decomposition products from the thermal desorption of atmospheric particles. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 1569-1586	4	10
194	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12433-12460	6.8	10
193	Contrasting aerosol refractive index and hygroscopicity in the inflow and outflow of deep convective storms: Analysis of airborne data from DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 4565-4577	4.4	9
192	HO <sub>2</sub> and NO <sub>2</sub> production in oxidation flow reactors via photolysis of isopropyl nitrite, isopropyl nitrite-d <sub>7</sub> , and 1,3-propyl dinitrite at $\lambda = 254, 350, \text{ and } 369 \text{ nm}$ . <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 299-311	4	9
191	Elemental analysis of complex organic aerosol using isotopic labeling and unit-resolution mass spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2741-7	7.8	9
190	Quantitative estimates of the volatility of ambient organic aerosol		9
189	Investigation of the correlation between odd oxygen and secondary organic aerosol in Mexico City and Houston		9
188	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5)		9
187	Sources and transformations of particle-bound polycyclic aromatic hydrocarbons in Mexico City		9
186	Fast airborne aerosol size and chemistry measurements with the high resolution aerosol mass spectrometer during the MILAGRO Campaign		9
185	Quantification of cooking organic aerosol in the indoor environment using aerodyne aerosol mass spectrometers. <i>Aerosol Science and Technology</i> , <b>2021</b> , 55, 1099-1114	3.4	9
184	The optical and chemical properties of discharge generated organic haze using in-situ real-time techniques. <i>Icarus</i> , <b>2017</b> , 294, 1-13	3.8	8
183	Rates of Wintertime Atmospheric SO <sub>2</sub> Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 6630-6649	4.4	8
182	Asian dust observed during KORUS-AQ facilitates the uptake and incorporation of soluble pollutants during transport to South Korea. <i>Atmospheric Environment</i> , <b>2020</b> , 224, 117305	5.3	8
181	Resolving ambient organic aerosol formation and aging pathways with simultaneous molecular composition and volatility observations. <i>ACS Earth and Space Chemistry</i> , <b>2020</b> , 4, 391-402	3.2	8
180	Sectoral and geographical contributions to summertime continental United States (CONUS) black carbon spatial distributions. <i>Atmospheric Environment</i> , <b>2012</b> , 51, 165-174	5.3	8
179	Insights on organic aerosol aging and the influence of coal combustion at a regional receptor site of Central Eastern China <b>2013</b> ,		8
178	A Variable Supersaturation Condensation Particle Sizer. <i>Aerosol Science and Technology</i> , <b>2006</b> , 40, 431-436		8

177	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011		8
176	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008-2013		8
175	Evaluation of the volatility basis-set approach for the simulation of organic aerosol formation in the Mexico City metropolitan area		8
174	Evaluation of new secondary organic aerosol models for a case study in Mexico City		8
173	Importance of biogenic volatile organic compounds to acyl peroxy nitrates (APN) production in the southeastern US during SOAS 2013. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 1867-1880	6.8	7
172	EURODELTA III exercise: An evaluation of air quality models' capacity to reproduce the carbonaceous aerosol. <i>Atmospheric Environment: X</i> , <b>2019</b> , 2, 100018	2.8	7
171	Effect of Vaporizer Temperature on Ambient Non-Refractory Submicron Aerosol Composition and Mass Spectra Measured by the Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , <b>2015</b> , 49, 485-494	3.4	7
170	Ambient Quantification and Size Distributions for Organic Aerosol in Aerosol Mass Spectrometers with the New Capture Vaporizer. <i>ACS Earth and Space Chemistry</i> , <b>2020</b> , 4, 676-689	3.2	7
169	Los Angeles Basin airborne organic aerosol characterization during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 11,453-11,467	4.4	7
168	Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter/spring: implications for radiative forcing		7
167	Changes in organic aerosol composition with aging inferred from aerosol mass spectra		7
166	Presenting SAPUSS: solving aerosol problem by using synergistic strategies at Barcelona, Spain		7
165	The effect of dry and wet deposition of condensable vapors on secondary organic aerosols concentrations over the continental US		7
164	Air quality in North America's most populous city /overview of MCMA-2003 Campaign		7
163	Modeling organic aerosols during MILAGRO: application of the CHIMERE model and importance of biogenic secondary organic aerosols		7
162	New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2020MS002266	7.1	7
161	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	7
160	Large Emissions of Low-Volatility Siloxanes during Residential Oven Use. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 519-524	11	7

159	A technique for rapid source apportionment applied to ambient organic aerosol measurements from a thermal desorption aerosol gas chromatograph (TAG). <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 5637-5653	4	7
158	An in situ gas chromatograph with automatic detector switching between PTR- and EI-TOF-MS: isomer-resolved measurements of indoor air. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 133-152	4	7
157	Biogenic emissions and land-atmosphere interactions as drivers of the daytime evolution of secondary organic aerosol in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 701-729	6.8	6
156	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , <b>2021</b> , 7, eabl3648	14.3	6
155	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 1-53	6.1	6
154	Modeling organic aerosols in a megacity: comparison of simple and complex representations of the volatility basis set approach		6
153	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model		6
152	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data		6
151	The 2005 Study of Organic Aerosols at Riverside (SOAR-1): instrumental intercomparisons and fine particle composition		6
150	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters]		6
149	Aqueous-phase mechanism for secondary organic aerosol formation from isoprene: application to the Southeast United States and co-benefit of SO <sub>2</sub> emission controls		6
148	Loading-dependent elemental composition of $\alpha$ -pinene SOA particles		6
147	Supplementary material to "Evolution of Asian aerosols during transpacific transport in INTEX-B"		6
146	CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations		6
145	The Importance of Size Ranges in Aerosol Instrument Intercomparisons: A Case Study for the ATom Mission		6
144	Aerosol pH indicator and organosulfate detectability from aerosol mass spectrometry measurements. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 2237-2260	4	6
143	Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and their Application to COVID-19 Outbreaks		6
142	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 1545-1559	4	6

141	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
140	HO <sub>2</sub> radical chemistry in oxidation flow reactors with low-pressure mercury lamps systematically examined by modeling <b>2015</b> ,		5
139	Eddy covariance measurements with high-resolution time-of-flight aerosol mass spectrometry: a new approach to chemically-resolved aerosol fluxes <b>2010</b> ,		5
138	Exploring dimethyl sulfide (DMS) oxidation and implications for global aerosol radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 1549-1573	6.8	5
137	How can ventilation be improved on public transportation buses? Insights from CO measurements. <i>Environmental Research</i> , <b>2021</b> , 112451	7.9	5
136	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 13091-13107	6.8	5
135	Major components of atmospheric organic aerosol in southern California as determined by hourly measurements of source marker compounds		5
134	Observations of total RONO <sub>2</sub> over the boreal forest: NO <sub>x</sub> sinks and HNO <sub>3</sub> sources		5
133	Organic nitrate aerosol formation via NO <sub>3</sub> + BVOC in the Southeastern US		5
132	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth		5
131	Rethinking the global secondary organic aerosol (SOA) budget: stronger production, faster removal, shorter lifetime		5
130	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing		5
129	The influence of chemical composition and mixing state of Los Angeles urban aerosol on CCN number and cloud properties		5
128	Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) [Part 2: Analysis of the biomass burning contribution and the modern carbon fraction		5
127	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms		5
126	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in a 3-D model		5
125	An evaluation of global organic aerosol schemes using airborne observations <b>2019</b> ,		4
124	Exploration of oxidative chemistry and secondary organic aerosol formation in the Amazon during the wet season: explicit modeling of the Manaus urban plume with GECKO-A. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5995-6014	6.8	4

123	Laser Ablation-Aerosol Mass Spectrometry-Chemical Ionization Mass Spectrometry for Ambient Surface Imaging. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4046-4053	7.8	4
122	Comparison of Airborne Reactive Nitrogen Measurements During WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10483-10502	4.4	4
121	Thermal desorption metastable atom bombardment ionization aerosol mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 303, 164-172	1.9	4
120	Corrigendum to "An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)" published in <i>Atmos. Chem. Phys.</i> , 10, 11415-11438, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 11565-11565	6.8	4
119	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM <sub>2.5</sub> ): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 16775-16791	6.8	4
118	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)		4
117	Relating hygroscopicity and composition of organic aerosol particulate matter		4
116	Importance of secondary sources in the atmospheric budgets of formic and acetic acids		4
115	Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO		4
114	Mass-spectrometric identification of primary biological particle markers: indication for low abundance of primary biological material in the pristine submicron aerosol of Amazonia		4
113	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain		4
112	Secondary organic aerosol formation and primary organic aerosol oxidation from biomass burning smoke in a flow reactor during FLAME-3		4
111	Non-OH chemistry in oxidation flow reactors for the study of atmospheric chemistry systematically examined by modeling		4
110	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor		4
109	Primary and secondary contributions to aerosol light scattering and absorption in Mexico City during the MILAGRO 2006 campaign		4
108	Aerosol optical properties relevant to regional remote sensing of CCN activity and links to their organic mass fraction: airborne observations over Central Mexico and the US West Coast during MILAGRO/INTÉX-B		4
107	Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) [Part 1: Fine particle composition and organic source apportionment]		4
106	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 15023-15063	6.8	4

105	Development and application of a low-cost vaporizer for rapid, quantitative, in situ addition of organic gases and particles to an environmental chamber. <i>Aerosol Science and Technology</i> , <b>2020</b> , 54, 1567-1578	4	4
104	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 4517-4542	4	4
103	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3395-3425	6.8	4
102	Halogens Enhance Haze Pollution in China. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13625-13633	3	4
101	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia <b>2016</b> ,		3
100	OH-chemistry of non-methane organic gases (NMOG) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation <b>2019</b> ,		3
99	Statistical precision of the intensities retrieved from constrained fitting of overlapping peaks in high-resolution mass spectra <b>2014</b> ,		3
98	The importance of aerosol mixing state and size-resolved composition on CCN concentration and the variation of the importance with atmospheric aging of aerosols		3
97	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest		3
96	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations		3
95	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California		3
94	Investigation of source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign		3
93	Chemical evolution of organic aerosol in Los Angeles during the CalNex 2010 study		3
92	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010		3
91	Speciated measurements of semivolatile and intermediate volatility organic compounds (S/IVOCs) in a pine forest during BEACHON-RoMBAS 2011		3
90	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model [Part 2: Assessing the influence of vapor wall losses		3
89	Characterization of ambient aerosols in Mexico City during the MCMA-2003 campaign with Aerosol Mass Spectrometry [Part I: quantification, shape-related collection efficiency, and comparison with collocated instruments		3
88	Reduction in biomass burning aerosol light absorption upon humidification: roles of inorganically-induced hygroscopicity, particle collapse, and photoacoustic heat and mass transfer		3

87	Emissions from biomass burning in the Yucatan		3
86	Interferences with aerosol acidity quantification due to gas-phase ammonia uptake onto acidic sulfate filter samples. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 6193-6213	4	3
85	A new method to quantify mineral dust and other aerosol species from aircraft platforms using single particle mass spectrometry		3
84	Characterization of a thermodenuder- particle beam mass spectrometer system for the study of organic aerosol volatility and composition		3
83	Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex). <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14923-14935	10.3	3
82	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms and organic aerosol <b>2016</b> ,		3
81	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC&lt;sup>4&lt;/sup>RS) and ground-based (SOAS) observations in the Southeast US <b>2016</b> ,		3
80	Concluding remarks: Faraday Discussion on chemistry in the urban atmosphere. <i>Faraday Discussions</i> , <b>2016</b> , 189, 661-7	3.6	3
79	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11113-11132	6.8	3
78	Oxidation Flow Reactor Results in a Chinese Megacity Emphasize the Important Contribution of S/IVOCs to Ambient SOA Formation.. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	3
77	Nitrate radical generation via continuous generation of dinitrogen pentoxide in a laminar flow reactor coupled to an oxidation flow reactor. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 2397-2414		2
76	Three-dimensional factorization of size-resolved organic aerosol mass spectra from Mexico City <b>2011</b> ,		2
75	Correction to Quantitative sampling using an Aerodyne aerosol mass spectrometer: 2. Measurements of fine particulate chemical composition in two U.K. cities, <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		2
74	A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 459-483	4	2
73	Field observational constraints on the controllers in glyoxal (CHOCHO) reactive uptake to aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 805-821	6.8	2
72	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10433-10457	6.8	2
71	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15646-15657	10.3	2
70	Phase state of ambient aerosol linked with water uptake and chemical aging in the Southeastern US		2



69	Anthropogenic Secondary Organic Aerosols Contribute Substantially to Air Pollution Mortality	2
68	Can 3-D models explain the observed fractions of fossil and non-fossil carbon in and near Mexico City?	2
67	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007	2
66	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
65	Analysis of CCN activity of Arctic aerosol and Canadian biomass burning during summer 2008	2
64	Combined effects of surface conditions, boundary layer dynamics and chemistry on diurnal SOA-evolution	2
63	Semi-continuous measurements of gas/particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS	2
62	An airborne assessment of atmospheric particulate emissions from the processing of Athabasca oil sands	2
61	Organic photolysis reactions in tropospheric aerosols: effect on secondary organic aerosol formation and lifetime	2
60	The characterisation of pollution aerosol in a changing photochemical environment	2
59	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B	2
58	Evaluation of the new capture vaporizer for Aerosol Mass Spectrometers (AMS) through laboratory studies of inorganic species	2
57	Effects of Gas-Wall Interactions on Measurements of Semivolatile Compounds and Small Polar Molecules	2
56	Analysis of aircraft and satellite measurements from the intercontinental chemical transport experiment (INTEX-B) to quantify long-range transport of East Asian Sulfur to Canada	2
55	Determination of particulate lead during MILAGRO/MCMA-2006 using Aerosol Mass Spectrometry	2
54	Size-resolved aerosol composition and link to hygroscopicity at a forested site in Colorado	2
53	HCOOH in the remote atmosphere: Constraints from Atmospheric Tomography (ATom) airborne observations. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 1436-1454	3.2 2
52	Anthropogenic influences on the physical state of submicron particulate matter over a tropical forest <b>2016</b> ,	2

51	Integration of Airborne and Ground Observations of Nitryl Chloride in the Seoul Metropolitan Area and the Implications on Regional Oxidation Capacity During KORUS-AQ 2016 <b>2018</b> ,		2
50	Relative Humidity Predicts Day-to-Day Variations in COVID-19 Cases in the City of Buenos Aires. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 11176-11182	10.3	2
49	Teaching Instrumental Analysis during the Pandemic: Application of Handheld CO Monitors to Explore COVID-19 Transmission Risks.. <i>Journal of Chemical Education</i> , <b>2022</b> , 99, 1794-1801	2.4	2
48	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 4253-4275	6.8	2
47	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	2
46	Characterization of Organic Aerosol across the Global Remote Troposphere: A comparison of ATom measurements and global chemistry models <b>2019</b> ,		1
45	Predictions of the glass transition temperature and viscosity of organic aerosols by volatility distributions <b>2020</b> ,		1
44	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment <b>2017</b> ,		1
43	Secondary organic aerosol formation from in situ OH, O <sub>3</sub> , and NO <sub>3</sub> ; oxidation of ambient forest air in an oxidation flow reactor <b>2017</b> ,		1
42	Mixing times of organic molecules within secondary organic aerosol particles: a global planetary boundary layer perspective <b>2017</b> ,		1
41	Fine particle pH and gas-particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign <b>2017</b> ,		1
40	Urban case studies: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 189, 473-514	3.6	1
39	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: Seasonal and diel variations and impact of anthropogenic emissions <b>2017</b> ,		1
38	Towards an online-coupled chemistry-climate model: evaluation of COSMO-ART <b>2011</b> ,		1
37	Kinetics of the reactive uptake of ozone on oleic acid aerosols. <i>Journal of Aerosol Science</i> , <b>2000</b> , 31, 1036-1037	10.37	1
36	Transmission of SARS-CoV-2: still up in the air - Authors' reply.. <i>Lancet, The</i> , <b>2022</b> , 399, 519-520	4.0	1
35	Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloud-Forming Particles. <i>Geophysical Research Letters</i> , <b>2021</b> , 48,	4.9	1
34	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations		1

33	Characterization of particle cloud droplet activity and composition in the free troposphere and the boundary layer during INTEX-B		1
32	Spectral absorption of biomass burning aerosol determined from retrieved single scattering albedo during ARCTAS		1
31	Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation		1
30	Modeling regional aerosol variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns		1
29	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC&sup>4&sup>RS: observations of a modest aerosol enhancement aloft		1
28	European air quality modelled by CAMx including the volatility basis set scheme		1
27	Total Observed Organic Carbon (TOOC): A synthesis of North American observations		1
26	Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols		1
25	Organic and inorganic decomposition products from the thermal desorption of atmospheric particles		1
24	Evolution of OH reactivity in NO-free volatile organic compound photooxidation investigated by the fully explicit GECKO-A model. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 14649-14669	6.8	1
23	Measurements of HNO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> using Ion drift Chemical Ionization Mass Spectrometry during the MCMA 2006 Campaign		1
22	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region		1
21	Long-term real-time chemical characterization of submicron aerosols at Montsec (Southern Pyrenees, 1570 m a.s.l.)		1
20	Trans-Pacific transport and evolution of aerosols and trace gases from Asia during the INTEX-B field campaign		1
19	Chemistry of hydrogen oxide radicals (HO <sub>x</sub> ) in the Arctic troposphere in spring		1
18	Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period		1
17	Fine particle pH and sensitivity to NH <sub>3</sub> and HNO <sub>3</sub> over summertime South Korea during KORUS-AQ <b>2020</b> ,		1
16	Quantifying Atmospheric Parameter Ranges for Ambient Secondary Organic Aerosol Formation. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 2380-2397	3.2	1

15	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ <b>2019</b> ,		1
14	The potential role of methanesulfonic acid (MSA) in aerosol formation and growth and the associated radiative forcings <b>2018</b> ,		1
13	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia <b>2018</b> ,		1
12	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons <b>2018</b> ,		1
11	Viscosities, diffusion coefficients, and mixing times of intrinsic fluorescent organic molecules in brown limonene secondary organic aerosol and tests of the Stokes-Einstein equation <b>2018</b> ,		1
10	Contribution of Organic Nitrates to Organic Aerosol over South Korea during KORUS-AQ. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	1
9	Quantifying transmission risk of SARS-CoV-2 in different situations.. <i>BMJ, The</i> , <b>2022</b> , 376, o106	5.9	0
8	The World Health Network: a global citizens' initiative. <i>Lancet, The</i> , <b>2021</b> , 398, 1567-1568	40	0
7	Determining Activity Coefficients of SOA from Isothermal Evaporation in a Laboratory Chamber. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 212-217	11	0
6	Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 2252-2267	3.2	0
5	Identifying chemical aerosol signatures using optical suborbital observations: how much can optical properties tell us about aerosol composition?. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 3713-3742	6.8	0
4	Remote sensing of NO and NO2 emissions from heavy-duty diesel trucks using tunable diode lasers <b>1999</b> , 3758, 180		
3	Single Nanoparticles and Nanoplasmas in Femtosecond Laser Fields. <i>Springer Proceedings in Physics</i> , <b>2015</b> , 702-706	0.2	
2	Novel Pathways to Form Secondary Organic Aerosols: Glyoxal SOA in WRF/Chem. <i>Springer Proceedings in Complexity</i> , <b>2014</b> , 149-154	0.3	
1	Numerical modelling strategies for the urban atmosphere: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 189, 635-60	3.6	