Pedro Campuzano-Jost

List of Publications by Citations

174 papers	5,719 citations	44 h-index	69 g-index
266 ext. papers	7,040 ext. citations	6.2 avg, IF	5.18 L-index

#	Paper	IF	Citations
174	Evolution of brown carbon in wildfire plumes. *Geophysical Research Letters*, **2015**, 42, 4623-4630	4.9	206
173	Aqueous-phase mechanism for secondary organic aerosol formation from isoprene: application to the Southeast United States and co-benefit of SO emission controls. *Atmospheric Chemistry and Physics*, **2016**, 16, 1603-1618	6.8	197
172	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1516-21	11.5	195
171	Sources, seasonality, and trends of southeast US aerosol: an integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. *Atmospheric Chemistry and Physics*, **2015**, 15, 10411-10433	6.8	168
170	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. *Atmospheric Chemistry and Physics*, **2015**, 15, 11807-11833	6.8	159
169	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. *Bulletin of the American Meteorological Society*, **2015**, 96, 1281-1309	6.1	140
168	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. *Atmospheric Chemistry and Physics*, **2016**, 16, 5969-5991	6.8	129
167	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 10,355	4.4	129
166	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. *Atmospheric Chemistry and Physics*, **2013**, 13, 8585-8605	6.8	123
165	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2038-2043	11.5	117
164	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 6108-6129	4.4	116
163	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. *Nature Geoscience*, **2017**, 10, 486-489	18.3	114
162	Organosulfates as tracers for secondary organic aerosol (SOA) formation from 2-methyl-3-buten-2-ol (MBO) in the atmosphere. *Environmental Science & Technology*, **2012**, 46, 9437-46	10.3	109
161	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. *Atmospheric Chemistry and Physics*, **2016**, 16, 2943-2970	6.8	98
160	Organic nitrate aerosol formation via NO₃ + biogenic volatile organic compounds in the southeastern United States. *Atmospheric Chemistry and Physics*, **2015**, 15, 13377-13392	6.8	90
159	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8110-8115	11.5	86
158	Exploring the observational constraints on the simulation of brown carbon. *Atmospheric Chemistry and Physics*, **2018**, 18, 635-653	6.8	80

157	Impact of Thermal Decomposition on Thermal Desorption Instruments: Advantage of Thermogram Analysis for Quantifying Volatility Distributions of Organic Species. *Environmental Science & Technology*, **2017**, 51, 8491-8500	10.3	78
156	Airborne measurements of organosulfates over the continental U.S. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 2990-3005	4.4	77
155	Semicontinuous measurements of gas□particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS. *Atmospheric Chemistry and Physics*, **2014**, 14, 1527-1546	6.8	76
154	A large source of cloud condensation nuclei from new particle formation in the tropics. *Nature*, **2019**, 574, 399-403	50.4	75
153	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. *Atmospheric Chemistry and Physics*, **2015**, 15, 7841-7858	6.8	74
152	Aerosol optical properties in the southeastern United States in summer □Part□1: Hygroscopic growth. *Atmospheric Chemistry and Physics*, **2016**, 16, 4987-5007	6.8	71
151	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7383-7414	4.4	71
150	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. *Atmospheric Chemistry and Physics*, **2018**, 18, 17769-17800	6.8	71
149	Heterogeneous N2O5 Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 4345-4372	4.4	69
148	Trends in sulfate and organic aerosol mass in the Southeast U.S.: Impact on aerosol optical depth and radiative forcing. *Geophysical Research Letters*, **2014**, 41, 7701-7709	4.9	66
147	Elemental composition of organic aerosol: The gap between ambient and laboratory measurements. *Geophysical Research Letters*, **2015**, 42, 4182-4189	4.9	63
146	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4505-4510	11.5	61
145	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). *Atmospheric Chemistry and Physics*, **2016**, 16, 11563-11580	6.8	60
144	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7771-7796	4.4	57
143	Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. *Environmental Science & Technology*, **2016**, 50, 9952-62	10.3	54
142	Revealing important nocturnal and day-to-day variations in fire smoke emissions through a multiplatform inversion. *Geophysical Research Letters*, **2015**, 42, 3609-3618	4.9	54
141	A new broadly tunable (7.4□10.2 eV) laser based VUV light source and its first application to aerosol mass spectrometry. *International Journal of Mass Spectrometry*, **2009**, 279, 134-146	1.9	53
140	Size-resolved aerosol composition and its link to hygroscopicity at a forested site in Colorado. *Atmospheric Chemistry and Physics*, **2014**, 14, 2657-2667	6.8	52

139	The potential role of methanesulfonic acid (MSA) in aerosol formation and growth and the associated radiative forcings. *Atmospheric Chemistry and Physics*, **2019**, 19, 3137-3160	6.8	51
138	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. *Atmospheric Chemistry and Physics*, **2014**, 14, 6345-6367	6.8	51
137	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 4323-4351	7.1	50
136	Evaluation of the new capture vaporizer for aerosol mass spectrometers (AMS) through field studies of inorganic species. *Aerosol Science and Technology*, **2017**, 51, 735-754	3.4	49
135	Comprehensive characterization of atmospheric organic carbon at a forested site. *Nature Geoscience*, **2017**, 10, 748-753	18.3	49
134	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. *Atmospheric Chemistry and Physics*, **2018**, 18, 467-493	6.8	49
133	Secondary organic aerosol formation from in situ OH, O₃, and NO₃ oxidation of ambient forest air in an oxidation flow reactor. *Atmospheric Chemistry and Physics*, **2017**, 17, 5331-5354	6.8	46
132	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC⁴RS: observations of a modest aerosol enhancement aloft. *Atmospheric Chemistry and Physics*, **2015**, 15, 7085-7102	6.8	46
131	Aerosol transport and wet scavenging in deep convective clouds: A case study and model evaluation using a multiple passive tracer analysis approach. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 8448-8468	4.4	44
130	An evaluation of global organic aerosol schemes using airborne observations. *Atmospheric Chemistry and Physics*, **2020**, 20, 2637-2665	6.8	44
129	Kinetic and mechanistic studies of the OH-initiated oxidation of dimethylsulfide at low temperature □A reevaluation of the rate coefficient and branching ratio. *Chemical Physics Letters*, **2001**, 344, 61-67	2.5	41
128	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. *Atmospheric Chemistry and Physics*, **2017**, 17, 6611-6629	6.8	40
127	Evaluation of the new capture vapourizer for aerosol mass spectrometers (AMS) through laboratory studies of inorganic species. *Atmospheric Measurement Techniques*, **2017**, 10, 2897-2921	4	39
126	A Pulsed Laser Photolysis□Pulsed Laser Induced Fluorescence Study of the Kinetics of the Gas-Phase Reaction of OH with NO2. *Journal of Physical Chemistry A*, **2001**, 105, 10538-10543	2.8	39
125	Characterization of organic aerosol across the global remote troposphere: a comparison of ATom measurements and global chemistry models. *Atmospheric Chemistry and Physics*, **2020**, 20, 4607-4635	6.8	38
124	Aerosol size distributions during the Atmospheric Tomography Mission (ATom): methods, uncertainties, and data products. *Atmospheric Measurement Techniques*, **2019**, 12, 3081-3099	4	38
123	Inconsistency of ammonium□sulfate aerosol ratios with thermodynamic models in the eastern US: a possible role of organic aerosol. *Atmospheric Chemistry and Physics*, **2017**, 17, 5107-5118	6.8	38
122	Estimating the contribution of organic acids to northern hemispheric continental organic aerosol. *Geophysical Research Letters*, **2015**, 42, 6084-6090	4.9	36

121	Quantitative detection of iodine in the stratosphere. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1860-1866	11.5	35
120	Aerosol optical properties in the southeastern United States in summer Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters. *Atmospheric Chemistry and Physics*, **2016**, 16, 5009-5019	6.8	33
119	NOx Lifetime and NOy Partitioning During WINTER. *Journal of Geophysical Research D: Atmospheres* , **2018**, 123, 9813-9827	4.4	32
118	Experimental and theoretical studies of the reaction of the OH radical with alkyl sulfides: 1. Direct observations of the formation of the OH-DMS adduct-pressure dependence of the forward rate of addition and development of a predictive expression at low temperature. *Journal of Physical Chemistry A*, **2007**, 111, 89-104	2.8	32
117	Kinetics of the OH-initiated oxidation of isoprene. *Geophysical Research Letters*, **2000**, 27, 693-696	4.9	32
116	Organosulfates in aerosols downwind of an urban region in central Amazon. *Environmental Sciences: Processes and Impacts*, **2018**, 20, 1546-1558	4.3	32
115	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,368	4.4	32
114	How emissions uncertainty influences the distribution and radiative impacts of smoke from fires in North America. *Atmospheric Chemistry and Physics*, **2020**, 20, 2073-2097	6.8	31
113	Response of the Aerodyne Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds: Applications in Field and Laboratory Measurements. *Environmental Science & Technology*, **2019**, 53, 5176-5186	10.3	30
112	Secondary organic aerosol (SOA) yields from NO₃ radical + isoprene based on nighttime aircraft power plant plume transects. *Atmospheric Chemistry and Physics*, **2018**, 18, 11663-11682	6.8	30
111	A new method to quantify mineral dust and other aerosol species from aircraft platforms using single-particle mass spectrometry. *Atmospheric Measurement Techniques*, **2019**, 12, 6209-6239	4	30
110	Photochemical model evaluation of 2013 California wild fire air quality impacts using surface, aircraft, and satellite data. *Science of the Total Environment*, **2018**, 637-638, 1137-1149	10.2	30
109	Kinetics and Mechanism of the Reaction of the Hydroxyl Radical with h8-Isoprene and d8-Isoprene: Isoprene Absorption Cross Sections, Rate Coefficients, and the Mechanism of Hydroperoxyl Radical Production. *Journal of Physical Chemistry A*, **2004**, 108, 1537-1551	2.8	29
108	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. *Atmospheric Chemistry and Physics*, **2018**, 18, 10433-10457	6.8	29
107	Atmospheric Acetaldehyde: Importance of Air-Sea Exchange and a Missing Source in the Remote Troposphere. *Geophysical Research Letters*, **2019**, 46, 5601-5613	4.9	28
106	Temperature Dependent Rate Constants for the Gas-Phase Reaction between OH and CH3OCl. *The Journal of Physical Chemistry*, **1996**, 100, 3601-3606		28
105	Gas phase elemental mercury: a comparison of LIF detection techniques and study of the kinetics of reaction with the hydroxyl radical. *Journal of Photochemistry and Photobiology A: Chemistry*, **2003**, 157, 247-256	4.7	28
104	Investigation of factors controlling PM variability across the South Korean Peninsula during KORUS-AQ. *Elementa*, **2020**, 8,	3.6	28

103	Vibrational deactivation studies of OH X 2□(v = 1□) by N2 and O2. *Physical Chemistry Chemical Physics*, **2004**, 6, 4276-4282	3.6	26
102	Speciated measurements of semivolatile and intermediate volatility organic compounds (S/IVOCs) in a pine forest during BEACHON-RoMBAS 2011. *Atmospheric Chemistry and Physics*, **2016**, 16, 1187-1205	6.8	25
101	Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7670	4.4	25
100	ClNO2 Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,994	4.4	24
99	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 1846-1861	4.4	22
98	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. *Atmospheric Chemistry and Physics*, **2018**, 18, 12185-12206	6.8	22
97	Rapid, ultra-sensitive detection of gas phase elemental mercury under atmospheric conditions using sequential two-photon laser induced fluorescence. *Journal of Environmental Monitoring*, **2002**, 4, 339-43		21
96	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 11225-11237	4.4	21
95	Observational Constraints on the Oxidation of NOx in the Upper Troposphere. *Journal of Physical Chemistry A*, **2016**, 120, 1468-78	2.8	20
94	Anthropogenic control over wintertime oxidation of atmospheric pollutants. *Geophysical Research Letters*, **2019**, 46, 14826-14835	4.9	20
93	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 13,527	4.4	20
92	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. *Atmospheric Chemistry and Physics*, **2019**, 19, 7973-8001	6.8	19
91	Kinetics of the Reaction of OH with HI between 246 and 353 K. *Journal of Physical Chemistry A*, **1999**, 103, 2712-2719	2.8	19
90	Ambient observations of sub-1.0 hygroscopic growth factor and (RH) values: Case studies from surface and airborne measurements. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 661-677	4.4	18
89	Characterization of the Real Part of Dry Aerosol Refractive Index Over North America From the Surface to 12□km. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 8283	4.4	18
88	Kinetic and mechanistic studies of the recombination of OH with NO2: vibrational deactivation, isotopic scrambling and product isomer branching ratios. *Faraday Discussions*, **2005**, 130, 111-23; discussion 125-51, 519-24	3.6	18
87	Is there an aerosol signature of chemical cloud processing?. *Atmospheric Chemistry and Physics*, **2018**, 18, 16099-16119	6.8	18
86	Evaluation of the new capture vaporizer for aerosol mass spectrometers: Characterization of organic aerosol mass spectra. *Aerosol Science and Technology*, **2018**, 52, 725-739	3.4	17

85	Kinetic and thermodynamic properties of the F+O2 reaction system under high pressure and low temperature conditions. *Journal of Chemical Physics*, **1995**, 102, 5317-5326	3.9	17
84	Widespread Pollution From Secondary Sources of Organic Aerosols During Winter in the Northeastern United States. *Geophysical Research Letters*, **2019**, 46, 2974-2983	4.9	17
83	Strong Contrast in Remote Black Carbon Aerosol Loadings Between the Atlantic and Pacific Basins. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 13,386	4.4	17
82	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,897	4.4	16
81	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 1086-1097	4.4	15
80	Airborne measurements and emission estimates of greenhouse gases and other trace constituents from the 2013 California Yosemite Rim wildfire. *Atmospheric Environment*, **2016**, 127, 293-302	5.3	15
79	Evaluation of the New Capture Vaporizer for Aerosol Mass Spectrometers (AMS): Elemental Composition and Source Apportionment of Organic Aerosols (OA). *ACS Earth and Space Chemistry*, **2018**, 2, 410-421	3.2	14
78	Natural and Anthropogenically Influenced Isoprene Oxidation in Southeastern United States and Central Amazon. *Environmental Science & Technology*, **2020**, 54, 5980-5991	10.3	13
77	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7079-7087	4.4	13
76	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. *Geoscientific Model Development*, **2019**, 12, 2983-3000	6.3	13
75	Experimental and theoretical studies of the reaction of the OH radical with alkyl sulfides: 3. Kinetics and mechanism of the OH initiated oxidation of dimethyl, dipropyl, and dibutyl sulfides: reactivity trends in the alkyl sulfides and development of a predictive expression for the reaction of OH with DMS. *Journal of Physical Chemistry A*, **2009**, 113, 6697-709	2.8	13
74	A study of oleic acid and 2,4-DHB acid aerosols using an IR-VUV-ITMS: insights into the strengths and weaknesses of the technique. *Physical Chemistry Chemical Physics*, **2009**, 11, 7963-75	3.6	13
73	Near-Real-Time Measurement of Sea-Salt Aerosol during the SEAS Campaign: Comparison of Emission-Based Sodium Detection with an Aerosol Volatility Technique. *Journal of Atmospheric and Oceanic Technology*, **2003**, 20, 1421-1430	2	13
72	Experimental and theoretical studies of the reaction of the OH radical with alkyl sulfides: 2. Kinetics and mechanism of the OH initiated oxidation of methylethyl and diethyl sulfides; observations of a two channel oxidation mechanism. *Physical Chemistry Chemical Physics*, **2007**, 9, 4370-82	3.6	12
71	The importance of size ranges in aerosol instrument intercomparisons: a case study for the Atmospheric Tomography Mission. *Atmospheric Measurement Techniques*, **2021**, 14, 3631-3655	4	12
70	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. *Atmospheric Chemistry and Physics*, **2021**, 21, 11201-11224	6.8	12
69	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. *Atmospheric Chemistry and Physics*, **2019**, 19, 12779-12795	6.8	11
68	Towards a satellite formaldehyde in situ hybrid estimate for organic aerosol abundance. *Atmospheric Chemistry and Physics*, **2019**, 19, 2765-2785	6.8	10

67	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. *Atmospheric Chemistry and Physics*, **2020**, 20, 6455-6478	6.8	10
66	Estimates of Regional Source Contributions to the Asian Tropopause Aerosol Layer Using a Chemical Transport Model. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031506	4.4	10
65	Observational Constraints on the Formation of Cl2 From the Reactive Uptake of ClNO2 on Aerosols in the Polluted Marine Boundary Layer. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 8851-8869	4.4	10
64	Characterization of a real-time tracer for Isoprene Epoxydiols-derived Secondary Organic Aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements		10
63	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. *Atmospheric Chemistry and Physics*, **2018**, 18, 12433-12460	6.8	10
62	Contrasting aerosol refractive index and hygroscopicity in the inflow and outflow of deep convective storms: Analysis of airborne data from DC3. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 4565-4577	4.4	9
61	Quantification of cooking organic aerosol in the indoor environment using aerodyne aerosol mass spectrometers. *Aerosol Science and Technology*, **2021**, 55, 1099-1114	3.4	9
60	Rates of Wintertime Atmospheric SO2 Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 6630-6649	4.4	8
59	Ground-based remote sensing of an elevated forest fire aerosol layer at Whistler, BC: implications for interpretation of mountaintop chemistry. *Atmospheric Chemistry and Physics*, **2010**, 10, 11921-11930	6.8	8
58	Gas phase UV absorption spectra for a series of alkyl sulfides. *Journal of Photochemistry and Photobiology A: Chemistry*, **2005**, 171, 77-82	4.7	8
57	Real-time measurement of sodium in single aerosol particles by flame emission: laboratory characterization. *Journal of Aerosol Science*, **2001**, 32, 765-778	4.3	8
56	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011		8
55	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008–2013		8
54	Ambient Quantification and Size Distributions for Organic Aerosol in Aerosol Mass Spectrometers with the New Capture Vaporizer. *ACS Earth and Space Chemistry*, **2020**, 4, 676-689	3.2	7
53	A laser desorption–electron impact ionization ion trap mass spectrometer for real-time analysis of single atmospheric particles. *International Journal of Mass Spectrometry*, **2009**, 281, 140-149	1.9	7
52	New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2020MS002266	7.1	7
51	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. *Communications Earth & Environment*, **2021**, 2,	6.1	7
50	Ozone chemistry in western U.S. wildfire plumes. *Science Advances*, **2021**, 7, eabl3648	14.3	6

49	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. *Bulletin of the American Meteorological Society*, **2021**, 1-53	6.1	6
48	Aerosol optical properties in the southeastern United States in summer Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters		6
47	Aqueous-phase mechanism for secondary organic aerosol formation from isoprene: application to the Southeast United States and co-benefit of SO₂ emission controls		6
46	The Importance of Size Ranges in Aerosol Instrument Intercomparisons: A Case Study for the ATom Mission		6
45	Aerosol pH indicator and organosulfate detectability from aerosol mass spectrometry measurements. *Atmospheric Measurement Techniques*, **2021**, 14, 2237-2260	4	6
44	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. *Atmospheric Measurement Techniques*, **2021**, 14, 1545-1559	4	6
43	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere.. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
42	Exploring dimethyl sulfide (DMS) oxidation and implications for global aerosol radiative forcing. *Atmospheric Chemistry and Physics*, **2022**, 22, 1549-1573	6.8	5
41	Organic nitrate aerosol formation via NO₃ + BVOC in the Southeastern US		5
40	Aerosol optical properties in the southeastern United States in summer Part 1: Hygroscopic growth		5
39	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing		5
38	An evaluation of global organic aerosol schemes using airborne observations **2019**,		4
37	Comparison of Airborne Reactive Nitrogen Measurements During WINTER. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10483-10502	4.4	4
36	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM_{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. *Atmospheric Chemistry and Physics*, **2021**, 21, 16775-16791	6.8	4
35	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor		4
34	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. *Atmospheric Chemistry and Physics*, **2021**, 21, 15023-15063	6.8	4
33	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. *Atmospheric Measurement Techniques*, **2021**, 14, 4517-4542	4	4
32	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. *Atmospheric Chemistry and Physics*, **2021**, 21, 3395-3425	6.8	4

31	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia **2016**,		3
30	Studies of one and two component aerosols using IR/VUV single particle mass spectrometry: Insights into the vaporization process and quantitative limitations. *Physical Chemistry Chemical Physics*, **2010**, 12, 11565-75	3.6	3
29	Speciated measurements of semivolatile and intermediate volatility organic compounds (S/IVOCs) in a pine forest during BEACHON-RoMBAS 2011		3
28	Interferences with aerosol acidity quantification due to gas-phase ammonia uptake onto acidic sulfate filter samples. *Atmospheric Measurement Techniques*, **2020**, 13, 6193-6213	4	3
27	A new method to quantify mineral dust and other aerosol species from aircraft platforms using single particle mass spectrometry		3
26	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC⁴RS) and ground-based (SOAS) observations in the Southeast US **2016**,		3
25	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. *Atmospheric Chemistry and Physics*, **2021**, 21, 11113-11132	6.8	3
24	Oxidation Flow Reactor Results in a Chinese Megacity Emphasize the Important Contribution of S/IVOCs to Ambient SOA Formation.. *Environmental Science & Technology*, **2021**,	10.3	3
23	A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry. *Atmospheric Measurement Techniques*, **2022**, 15, 459-483	4	2
22	Field observational constraints on the controllers in glyoxal (CHOCHO) reactive uptake to aerosol. *Atmospheric Chemistry and Physics*, **2022**, 22, 805-821	6.8	2
21	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. *Atmospheric Chemistry and Physics*, **2018**, 18, 10433-10457	6.8	2
20	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. *Environmental Science & Technology*, **2021**, 55, 15646-15657	10.3	2
19	Anthropogenic Secondary Organic Aerosols Contribute Substantially to Air Pollution Mortality		2
18	Semi-continuous measurements of gas/particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS		2
17	Evaluation of the new capture vaporizer for Aerosol Mass Spectrometers (AMS) through laboratory studies of inorganic species		2
16	Size-resolved aerosol composition and link to hygroscopicity at a forested site in Colorado		2
15	HCOOH in the remote atmosphere: Constraints from Atmospheric Tomography (ATom) airborne observations. *ACS Earth and Space Chemistry*, **2021**, 5, 1436-1454	3.2	2
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