

Allison Aiken

List of Publications by Year in descending order

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58
papers

14,330
citations

94433

37
h-index

138484

58
g-index

93
all docs

93
docs citations

93
times ranked

7057
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.	12.6	3,374
2	Field-Deployable, High-Resolution, Time-of-Flight Aerosol Mass Spectrometer. <i>Analytical Chemistry</i> , 2006, 78, 8281-8289.	6.5	1,968
3	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 & Technology</i> , 2008, 42, 4478-4485.	10.0	1,524
4	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> , 2009, 9, 6633-6653.	4.9	525
5	Elemental Analysis of Organic Species with Electron Ionization High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 8350-8358.	6.5	490
6	A simplified description of the evolution of organic aerosol composition in the atmosphere. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	412
7	Fast airborne aerosol size and chemistry measurements above Mexico City and Central Mexico during the MILAGRO campaign. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4027-4048.	4.9	411
8	Brownness of organics in aerosols from biomass burning linked to their black carbon content. <i>Nature Geoscience</i> , 2014, 7, 647-650.	12.9	407
9	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 & Technology</i> , 2009, 43, 2443-2449.	10.0	365
10	Relating hygroscopicity and composition of organic aerosol particulate matter. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1155-1165.	4.9	326
11	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> , 2010, 10, 5257-5280.	4.9	325
12	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. <i>Environmental Science & Technology</i> , 2013, 47, 6316-6324.	10.0	304
13	Chemically-resolved aerosol volatility measurements from two megacity field studies. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7161-7182.	4.9	289
14	Morphology and mixing state of individual freshly emitted wildfire carbonaceous particles. <i>Nature Communications</i> , 2013, 4, 2122.	12.8	278
15	Loading-dependent elemental composition of α -pinene SOA particles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 771-782.	4.9	272
16	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. <i>Nature Communications</i> , 2015, 6, 8435.	12.8	266
17	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> , 2010, 10, 7267-7283.	4.9	206
18	Design, Modeling, Optimization, and Experimental Tests of a Particle Beam Width Probe for the Aerodyne Aerosol Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2005, 39, 1143-1163.	3.1	196

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19	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (TO) – Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5315-5341.	4.9	182
20	Evolution of Asian aerosols during transpacific transport in INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7257-7287.	4.9	170
21	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> , 2009, 9, 6191-6215.	4.9	138
22	The 2005 Study of Organic Aerosols at Riverside (SOAR-1): instrumental intercomparisons and fine particle composition. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12387-12420.	4.9	129
23	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> , 2017, 98, 981-997.	3.3	128
24	Deriving brown carbon from multiwavelength absorption measurements: method and application to AERONET and Aethalometer observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12733-12752.	4.9	123
25	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6949-6981.	4.9	119
26	Meteorology, Air Quality, and Health in London: The ClearLo Project. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 779-804.	3.3	105
27	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2007-2025.	4.9	94
28	Aerosol single scattering albedo dependence on biomass combustion efficiency: Laboratory and field studies. <i>Geophysical Research Letters</i> , 2014, 41, 742-748.	4.0	85
29	Measurements of HNO ₃ and N ₂ O ₅ using ion drift-chemical ionization mass spectrometry during the MILAGRO/MCMA-2006 campaign. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6823-6838.	4.9	83
30	Primary and secondary contributions to aerosol light scattering and absorption in Mexico City during the MILAGRO 2006 campaign. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3721-3730.	4.9	83
31	The Ascension Island Boundary Layer in the Remote Southeast Atlantic is Often Smoky. <i>Geophysical Research Letters</i> , 2018, 45, 4456-4465.	4.0	77
32	Impact of palmitic acid coating on the water uptake and loss of ammonium sulfate particles. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1951-1961.	4.9	71
33	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6345-6367.	4.9	62
34	Reduction in Haze Formation Rate on Prebiotic Earth in the Presence of Hydrogen. <i>Astrobiology</i> , 2009, 9, 447-453.	3.0	52
35	Marine boundary layer aerosol in the eastern North Atlantic: seasonal variations and key controlling processes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17615-17635.	4.9	51
36	Determination of particulate lead using aerosol mass spectrometry: MILAGRO/MCMA-2006 observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5371-5389.	4.9	48

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37	Ice nucleation activity of diesel soot particles at cirrus relevant temperature conditions: Effects of hydration, secondary organics coating, soot morphology, and coagulation. <i>Geophysical Research Letters</i> , 2016, 43, 3580-3588.	4.0	47
38	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. <i>Scientific Reports</i> , 2019, 9, 11824.	3.3	47
39	Three-dimensional factorization of size-resolved organic aerosol mass spectra from Mexico City. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 195-224.	3.1	39
40	Morphology of diesel soot residuals from supercooled water droplets and ice crystals: implications for optical properties. <i>Environmental Research Letters</i> , 2015, 10, 114010.	5.2	35
41	Long-range transported North American wildfire aerosols observed in marine boundary layer of eastern North Atlantic. <i>Environment International</i> , 2020, 139, 105680.	10.0	35
42	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E619-E641.	3.3	33
43	Wintertime aerosol chemical composition, volatility, and spatial variability in the greater London area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1139-1160.	4.9	32
44	High summertime aerosol organic functional group concentrations from marine and seabird sources at Ross Island, Antarctica, during AWARE. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8571-8587.	4.9	31
45	Fractal-like Tar Ball Aggregates from Wildfire Smoke. <i>Environmental Science and Technology Letters</i> , 2018, 5, 360-365.	8.7	29
46	Mie Scattering Captures Observed Optical Properties of Ambient Biomass Burning Plumes Assuming Uniform Black, Brown, and Organic Carbon Mixtures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11406-11427.	3.3	23
47	Optical Properties of Laboratory and Ambient Biomass Burning Aerosols: Elucidating Black, Brown, and Organic Carbon Components and Mixing Regimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5088-5105.	3.3	21
48	Southwestern U.S. Biomass Burning Smoke Hygroscopicity: The Role of Plant Phenology, Chemical Composition, and Combustion Properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5416-5432.	3.3	19
49	Atmospheric Radiation Measurement (ARM) Aerosol Observing Systems (AOS) for Surface-Based In Situ Atmospheric Aerosol and Trace Gas Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 2429-2447.	1.3	19
50	Low hygroscopicity of ambient fresh carbonaceous aerosols from pyrotechnics smoke. <i>Atmospheric Environment</i> , 2018, 178, 101-108.	4.1	15
51	Optical and Chemical Analysis of Absorption Enhancement by Mixed Carbonaceous Aerosols in the 2019 Woodbury, AZ, Fire Plume. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032399.	3.3	13
52	Identifying a regional aerosol baseline in the eastern North Atlantic using collocated measurements and a mathematical algorithm to mask high-submicron-number-concentration aerosol events. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7553-7573.	4.9	7
53	Quantification of online removal of refractory black carbon using laser-induced incandescence in the single particle soot photometer. <i>Aerosol Science and Technology</i> , 2016, 50, 679-692.	3.1	6
54	NO _x instrument intercomparison for laboratory biomass burning source studies and urban ambient measurements in Albuquerque, New Mexico. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 1175-1189.	1.9	6

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55	Optical properties and radiative forcing of fractal-like tar ball aggregates from biomass burning. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 230, 65-74.	2.3	6
56	Wildfire Smoke Demonstrates Significant and Predictable Black Carbon Light Absorption Enhancements. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
57	Mass Spectral Studies of Shocked Salts and Nitrocellulose Polymer Films. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	4
58	Humidified single-scattering albedometer (H-CAPS-PM _{SSA}): Design, data analysis, and validation. <i>Aerosol Science and Technology</i> , 2021, 55, 749-768.	3.1	4