

Elisabeth Andrews

List of Publications by Year in descending order

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86
papers

6,702
citations

76196

40
h-index

69108

77
g-index

139
all docs

139
docs citations

139
times ranked

5379
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring and simulating particulate organics in the atmosphere: problems and prospects. <i>Atmospheric Environment</i> , 2000, 34, 2983-3013.	1.9	886
2	Arctic haze: current trends and knowledge gaps. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 99-114.	0.8	318
3	A 3-year record of simultaneously measured aerosol chemical and optical properties at Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 8-1-AAC 8-15.	3.3	239
4	Comparison of the radiative properties and direct radiative effect of aerosols from a global aerosol model and remote sensing data over ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 115-129.	0.8	235
5	Comparison of methods for deriving aerosol asymmetry parameter. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	220
6	The Reno Aerosol Optics Study: An Evaluation of Aerosol Absorption Measurement Methods. <i>Aerosol Science and Technology</i> , 2005, 39, 1-16.	1.5	215
7	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4775-4793.	1.9	212
8	Pan-Arctic enhancements of light absorbing aerosol concentrations due to North American boreal forest fires during summer 2004. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	205
9	Variations and sources of the equivalent black carbon in the high Arctic revealed by long-term observations at Alert and Barrow: 1989-2003. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	188
10	Aerosols in polar regions: A historical overview based on optical depth and in situ observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	173
11	Effect of surfactant layers on the size changes of aerosol particles as a function of relative humidity. <i>Environmental Science & Technology</i> , 1993, 27, 857-865.	4.6	168
12	16-year simulation of Arctic black carbon: Transport, source contribution, and sensitivity analysis on deposition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 943-964.	1.2	154
13	Aerosol decadal trends - Part 1: In-situ optical measurements at GAW and IMPROVE stations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 869-894.	1.9	126
14	CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4795-4807.	1.9	124
15	Climatology of aerosol radiative properties in the free troposphere. <i>Atmospheric Research</i> , 2011, 102, 365-393.	1.8	121
16	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> , 2007, 112, .	3.3	119
17	Scientists and Public Outreach: Participation, Motivations, and Impediments. <i>Journal of Geoscience Education</i> , 2005, 53, 281-293.	0.8	118
18	Concentration and Composition of Atmospheric Aerosols from the 1995 SEAVS Experiment and a Review of the Closure between Chemical and Gravimetric Measurements. <i>Journal of the Air and Waste Management Association</i> , 2000, 50, 648-664.	0.9	117

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19	Impact of particulate organic matter on the relative humidity dependence of light scattering: A simplified parameterization. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	113
20	INDOEX aerosol: A comparison and summary of chemical, microphysical, and optical properties observed from land, ship, and aircraft. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 32-1.	3.3	111
21	Effect of hygroscopic growth on the aerosol light-scattering coefficient: A review of measurements, techniques and error sources. <i>Atmospheric Environment</i> , 2016, 141, 494-507.	1.9	107
22	Aerosol Absorption: Progress Towards Global and Regional Constraints. <i>Current Climate Change Reports</i> , 2018, 4, 65-83.	2.8	103
23	AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 87-128.	1.9	96
24	Classifying aerosol type using in situ surface spectral aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12097-12120.	1.9	86
25	Radiative impact of boreal smoke in the Arctic: Observed and modeled. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	84
26	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 861-878.	1.7	81
27	Seasonality of aerosol optical properties in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11599-11622.	1.9	80
28	Aerosol decadal trends “ Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 895-916.	1.9	78
29	In situ aerosol profiles over the Southern Great Plains cloud and radiation test bed site: 1. Aerosol optical properties. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	76
30	Demonstration of Aerosol Property Profiling by Multiwavelength Lidar under Varying Relative Humidity Conditions. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1543-1557.	0.5	75
31	Evaluation of daytime measurements of aerosols and water vapor made by an operational Raman lidar over the Southern Great Plains. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	71
32	A multi-year study of lower tropospheric aerosol variability and systematic relationships from four North American regions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12487-12517.	1.9	71
33	Continuous light absorption photometer for long-term studies. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4805-4818.	1.2	69
34	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4353-4392.	1.2	65
35	Aerosol light-scattering enhancement due to water uptake during the TCAP campaign. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7031-7043.	1.9	61
36	Multidecadal trend analysis of in situ aerosol radiative properties around the world. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8867-8908.	1.9	58

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37	Comparison of AOD, AAOD and column single scattering albedo from AERONET retrievals and in situ profiling measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6041-6072.	1.9	56
38	The DOE ARM Aerial Facility. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 723-742.	1.7	51
39	Seasonal differences in the vertical profiles of aerosol optical properties over rural Oklahoma. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10661-10676.	1.9	50
40	Incursions and radiative impact of Asian dust in northern Alaska. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	49
41	Comparison between lidar and nephelometer measurements of aerosol hygroscopicity at the Southern Great Plains Atmospheric Radiation Measurement site. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	45
42	Effect of aerosol humidification on the column aerosol optical thickness over the Atmospheric Radiation Measurement Southern Great Plains site. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
43	Coupling aerosol size distributions and size-resolved hygroscopicity to predict humidity-dependent optical properties and cloud condensation nuclei spectra. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	44
44	Vertical profiles of aerosol optical properties over central Illinois and comparison with surface and satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11695-11721.	1.9	43
45	Size distribution and optical properties of African mineral dust after intercontinental transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7117-7138.	1.2	42
46	Effects of the prewhitening method, the time granularity, and the time segmentation on the Mann-Kendall trend detection and the associated Sen's slope. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6945-6964.	1.2	42
47	Pan-Arctic seasonal cycles and long-term trends of aerosol properties from 10 observatories. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3067-3096.	1.9	40
48	Comparison of in situ aerosol extinction and scattering coefficient measurements made during the Aerosol Intensive Operating Period. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	39
49	Evaluation of climate model aerosol trends with ground-based observations over the last 2 decades an AeroCom and CMIP6 analysis. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13355-13378.	1.9	38
50	Carbonaceous aerosols contributed by traffic and solid fuel burning at a polluted rural site in Northwestern England. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1603-1619.	1.9	37
51	Overview of the NOAA/ESRL Federated Aerosol Network. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 123-135.	1.7	36
52	Sources of discrepancy between aerosol optical depth obtained from AERONET and in-situ aircraft profiles. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2987-3003.	1.9	34
53	Overview of the Cumulus Humilis Aerosol Processing Study. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1653-1668.	1.7	33
54	Identification of topographic features influencing aerosol observations at high altitude stations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12289-12313.	1.9	31

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55	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17185-17223.	1.9	31
56	Evaluating the PurpleAir monitor as an aerosol light scattering instrument. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 655-676.	1.2	30
57	A global view on the effect of water uptake on aerosol particle light scattering. <i>Scientific Data</i> , 2019, 6, 157.	2.4	28
58	Atmospheric Radiation Measurements Aerosol Intensive Operating Period: Comparison of aerosol scattering during coordinated flights. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	25
59	Contributions of dust and biomass burning to aerosols at a Colorado mountain-top site. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13665-13679.	1.9	23
60	Sorption of vapor phase octanoic acid onto deliquescent salt particles. <i>Journal of Geophysical Research</i> , 1996, 101, 19533-19540.	3.3	22
61	Climatology of New Particle Formation and Corresponding Precursors at Storm Peak Laboratory. <i>Aerosol and Air Quality Research</i> , 2016, 16, 816-826.	0.9	21
62	Dust Impacts of Rapid Agricultural Expansion on the Great Plains. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090347.	1.5	21
63	Validation of aerosol extinction and water vapor profiles from routine Atmospheric Radiation Measurement Program Climate Research Facility measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	20
64	The influence of fog and air mass history on aerosol optical, physical and chemical properties at Pt. Reyes National Seashore. <i>Atmospheric Environment</i> , 2011, 45, 2559-2568.	1.9	19
65	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10231-10258.	1.9	19
66	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6723-6748.	1.2	19
67	Spatial Representativeness Error in the Groundâ€“Level Observation Networks for Black Carbon Radiation Absorption. <i>Geophysical Research Letters</i> , 2018, 45, 2106-2114.	1.5	18
68	Potential origin of organic cloud condensation nuclei observed at marine site. <i>Journal of Geophysical Research</i> , 1997, 102, 21997-22012.	3.3	17
69	An intercomparison of aerosol absorption measurements conducted during the SEAC ⁴ RS campaign. <i>Aerosol Science and Technology</i> , 2018, 52, 1012-1027.	1.5	17
70	An anomalous African dust event and its impact on aerosol radiative forcing on the Southwest Atlantic coast of Europe in February 2016. <i>Science of the Total Environment</i> , 2017, 583, 269-279.	3.9	16
71	Aerosol Measurements at South Pole: Climatology and Impact of Local Contamination. <i>Aerosol and Air Quality Research</i> , 2016, 16, 855-872.	0.9	16
72	Activation properties of aerosol particles as cloud condensation nuclei at urban and high-altitude remote sites in southern Europe. <i>Science of the Total Environment</i> , 2021, 762, 143100.	3.9	14

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73	Optical, physical, and chemical properties of springtime aerosol over Barrow Alaska in 2008. <i>International Journal of Climatology</i> , 2014, 34, 3125-3138.	1.5	13
74	Climatological study for understanding the aerosol radiative effects at southwest Atlantic coast of Europe. <i>Atmospheric Environment</i> , 2019, 205, 52-66.	1.9	13
75	The influence of chemical heterogeneity among cloud drop populations on processing of chemical species in winter clouds. <i>Atmospheric Research</i> , 1999, 51, 119-140.	1.8	11
76	Variability of Aerosol Optical Properties Observed at a Polluted Marine (Gosan, Korea) and a High-altitude Mountain (Lulin, Taiwan) Site in the Asian Continental Outflow. <i>Aerosol and Air Quality Research</i> , 2019, 19, 1272-1283.	0.9	10
77	Vertical profiles of light absorption and scattering associated with black carbon particle fractions in the springtime Arctic above 79°N. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10545-10563.	1.9	9
78	Asian dust signatures at Barrow: observed and simulated. Incursions and impact of Asian dust over Northern Alaska. , 2005, , .		8
79	A global study of hygroscopicity-driven light-scattering enhancement in the context of other in situ aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13031-13050.	1.9	7
80	Numerical, wind-tunnel, and atmospheric evaluation of a turbulent ground-based inlet sampling system. <i>Aerosol Science and Technology</i> , 2019, 53, 712-727.	1.5	6
81	Aerosol optical properties calculated from size distributions, filter samples and absorption photometer data at Dome C, Antarctica, and their relationships with seasonal cycles of sources. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5033-5069.	1.9	3
82	Wintertime aerosol measurements during the Chilean Coastal Orographic Precipitation Experiment. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12377-12396.	1.9	2
83	Climatology of Aerosol Optical Properties at Storm Peak Laboratory. <i>Aerosol and Air Quality Research</i> , 2019, 19, 1205-1213.	0.9	1
84	Assessing the radiative impact of aerosol smoke using MODTRAN5. , 2008, , .		0
85	Overview of the Special Issue "Selected Papers from the 2nd Atmospheric Chemistry and Physics at Mountain Sites Symposium", <i>Aerosol and Air Quality Research</i> , 2016, 16, 471-477.	0.9	0
86	Raman Lidar Measurements of Aerosol Profiles Over the Southern Great Plains During the May 2003 Aerosol IOP. , 2005, , .		0