

Patricia K Quinn

List of Publications by Year in descending order

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217
papers

26,834
citations

5876

81
h-index

7496

151
g-index

247
all docs

247
docs citations

247
times ranked

14186
citing authors

#	ARTICLE	IF	CITATIONS
1	Bounding the role of black carbon in the climate system: A scientific assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5380-5552.	1.2	4,319
2	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. <i>Journal of Geophysical Research</i> , 2001, 106, 28371-28398.	3.3	1,199
3	Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon. <i>Science</i> , 2012, 337, 1078-1081.	6.0	618
4	A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. <i>Nature</i> , 2010, 464, 271-274.	13.7	562
5	The case against climate regulation via oceanic phytoplankton sulphur emissions. <i>Nature</i> , 2011, 480, 51-56.	13.7	532
6	Spectral absorption properties of atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5937-5943.	1.9	521
7	Global distribution of sea salt aerosols: new constraints from in situ and remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3137-3157.	1.9	503
8	High levels of nitryl chloride in the polluted subtropical marine boundary layer. <i>Nature Geoscience</i> , 2008, 1, 324-328.	5.4	403
9	ACE-Asia Intercomparison of a Thermal-Optical Method for the Determination of Particle-Phase Organic and Elemental Carbon. <i>Environmental Science & Technology</i> , 2003, 37, 993-1001.	4.6	402
10	Influence of sea-salt on aerosol radiative properties in the Southern Ocean marine boundary layer. <i>Nature</i> , 1998, 392, 62-65.	13.7	355
11	Short-lived pollutants in the Arctic: their climate impact and possible mitigation strategies. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1723-1735.	1.9	346
12	ACE-ASIA: Regional Climatic and Atmospheric Chemical Effects of Asian Dust and Pollution. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 367-380.	1.7	330
13	Carbohydrate-like composition of submicron atmospheric particles and their production from ocean bubble bursting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6652-6657.	3.3	322
14	Arctic haze: current trends and knowledge gaps. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 99-114.	0.8	318
15	Atmospheric deposition of nutrients to the North Atlantic Basin. <i>Biogeochemistry</i> , 1996, 35, 27-73.	1.7	300
16	Chemistry and Related Properties of Freshly Emitted Sea Spray Aerosol. <i>Chemical Reviews</i> , 2015, 115, 4383-4399.	23.0	289
17	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2423-2453.	1.9	259
18	Maritime Aerosol Network as a component of Aerosol Robotic Network. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	258

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19	Modification, Calibration and a Field Test of an Instrument for Measuring Light Absorption by Particles. <i>Aerosol Science and Technology</i> , 2005, 39, 68-83.	1.5	249
20	Bias in Filter-Based Aerosol Light Absorption Measurements Due to Organic Aerosol Loading: Evidence from Ambient Measurements. <i>Aerosol Science and Technology</i> , 2008, 42, 1033-1041.	1.5	246
21	Variations in the methanesulfonate to sulfate molar ratio in submicrometer marine aerosol particles over the south Pacific Ocean. <i>Journal of Geophysical Research</i> , 1992, 97, 9859-9865.	3.3	241
22	Multi-decadal aerosol variations from 1980 to 2009: a perspective from observations and a global model. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3657-3690.	1.9	240
23	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
24	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
25	Mixtures of pollution, dust, sea salt, and volcanic aerosol during ACE-Asia: Radiative properties as a function of relative humidity. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	234
26	Contribution of sea surface carbon pool to organic matter enrichment in sea spray aerosol. <i>Nature Geoscience</i> , 2014, 7, 228-232.	5.4	223
27	Source identification of short-lived air pollutants in the Arctic using statistical analysis of measurement data and particle dispersion model output. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 669-693.	1.9	218
28	Sources, distribution, and acidity of sulfate–ammonium aerosol in the Arctic in winter–spring. <i>Atmospheric Environment</i> , 2011, 45, 7301-7318.	1.9	206
29	New particle formation in the marine boundary layer. <i>Journal of Geophysical Research</i> , 1992, 97, 20581-20589.	3.3	204
30	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5830-5866.	1.2	199
31	A review of sea-spray aerosol source functions using a large global set of sea salt aerosol concentration measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1277-1297.	1.9	192
32	Characterization of Asian Dust during ACE-Asia. <i>Global and Planetary Change</i> , 2006, 52, 23-56.	1.6	190
33	Modelled radiative forcing of the direct aerosol effect with multi-observation evaluation. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1365-1392.	1.9	187
34	Carboxylic acids, sulfates, and organosulfates in processed continental organic aerosol over the southeast Pacific Ocean during VOCALS–REx 2008. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	184
35	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	173
36	Measurements of chloride depletion and sulfur enrichment in individual sea-salt particles collected from the remote marine boundary layer. <i>Journal of Geophysical Research</i> , 1994, 99, 8257.	3.3	171

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37	Aerosol optical properties in the marine boundary layer during the First Aerosol Characterization Experiment (ACE 1) and the underlying chemical and physical aerosol properties. <i>Journal of Geophysical Research</i> , 1998, 103, 16547-16563.	3.3	171
38	Long-term trends of black carbon and sulphate aerosol in the Arctic: changes in atmospheric transport and source region emissions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9351-9368.	1.9	169
39	Measurements of aerosol vertical profiles and optical properties during INDOEX 1999 using micropulse lidars. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 18-1.	3.3	166
40	Small fraction of marine cloud condensation nuclei made up of sea spray aerosol. <i>Nature Geoscience</i> , 2017, 10, 674-679.	5.4	166
41	Particulate emissions from commercial shipping: Chemical, physical, and optical properties. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162
42	Interactions between the sulfur and reduced nitrogen cycles over the central Pacific Ocean. <i>Journal of Geophysical Research</i> , 1990, 95, 16405-16416.	3.3	161
43	Simultaneous observations of ammonia in the atmosphere and ocean. <i>Nature</i> , 1988, 335, 336-338.	13.7	158
44	Processes controlling the distribution of aerosol particles in the lower marine boundary layer during the First Aerosol Characterization Experiment (ACE 1). <i>Journal of Geophysical Research</i> , 1998, 103, 16369-16383.	3.3	156
45	Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 583-597.	1.2	152
46	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9413-9433.	1.9	145
47	Submicron aerosol composition at Trinidad Head, California, during ITCT 2K2: Its relationship with gas phase volatile organic carbon and assessment of instrument performance. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	144
48	Physical properties of marine boundary layer aerosol particles of the mid-Pacific in relation to sources and meteorological transport. <i>Journal of Geophysical Research</i> , 1996, 101, 6919-6930.	3.3	142
49	The Ocean's Vital Skin: Toward an Integrated Understanding of the Sea Surface Microlayer. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	137
50	Aerosol direct radiative effects over the northwest Atlantic, northwest Pacific, and North Indian Oceans: estimates based on in-situ chemical and optical measurements and chemical transport modeling. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1657-1732.	1.9	135
51	Regional aerosol properties: Comparisons of boundary layer measurements from ACE 1, ACE 2, Aerosols99, INDOEX, ACE Asia, TARFOX, and NEAQS. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	134
52	Atmospheric sulfur cycle simulated in the global model GOCART: Comparison with field observations and regional budgets. <i>Journal of Geophysical Research</i> , 2000, 105, 24689-24712.	3.3	128
53	Nighttime removal of NO _x in the summer marine boundary layer. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	127
54	Impacts of sources and aging on submicrometer aerosol properties in the marine boundary layer across the Gulf of Maine. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	126

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55	Oxygenated fraction and mass of organic aerosol from direct emission and atmospheric processing measured on the R/V <i>Ronald Brown</i> during TEXAQS/GoMACCS 2006. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	126
56	Direct observations of N_2O_5 reactivity on ambient aerosol particles. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	124
57	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
58	Aerosol optical properties measured on board the <i>Ronald H. Brown</i> during ACE-Asia as a function of aerosol chemical composition and source region. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	123
59	Impact of Fuel Quality Regulation and Speed Reductions on Shipping Emissions: Implications for Climate and Air Quality. <i>Environmental Science & Technology</i> , 2011, 45, 9052-9060.	4.6	115
60	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
61	Influence of particle size and chemistry on the cloud nucleating properties of aerosols. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1029-1042.	1.9	113
62	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
63	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	111
64	Characterization of carbonaceous aerosols outflow from India and Arabia: Biomass/biofuel burning and fossil fuel combustion. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	109
65	Dimethylsulfide/cloud condensation nuclei/climate system: Relevant size-resolved measurements of the chemical and physical properties of atmospheric aerosol particles. <i>Journal of Geophysical Research</i> , 1993, 98, 10411-10427.	3.3	108
66	Laboratory studies of products of N_2O_5 uptake on Cl^{\sim} containing substrates. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	107
67	Arctic Air Pollution: New Insights from POLARCAT-IPY. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1873-1895.	1.7	107
68	Aerosol optical properties during INDOEX 1999: Means, variability, and controlling factors. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 19-1.	3.3	106
69	Sampling methods used for the collection of particle-phase organic and elemental carbon during ACE-Asia. <i>Atmospheric Environment</i> , 2003, 37, 1435-1449.	1.9	106
70	Sources and composition of submicron organic mass in marine aerosol particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,977.	1.2	106
71	Hygroscopic properties of different aerosol types over the Atlantic and Indian Oceans. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1377-1397.	1.9	104
72	Springtime Arctic haze contributions of submicron organic particles from European and Asian combustion sources. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	103

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73	Substantial Seasonal Contribution of Observed Biogenic Sulfate Particles to Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018, 8, 3235.	1.6	103
74	Measurements of ocean derived aerosol off the coast of California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	100
75	Reactivity and loss mechanisms of NO ₃ and N ₂ O ₅ in a polluted marine environment: Results from in situ measurements during New England Air Quality Study 2002. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	99
76	Regional variation of organic functional groups in aerosol particles on four U.S. east coast platforms during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	98
77	Marine boundary layer dust and pollutant transport associated with the passage of a frontal system over eastern Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	94
78	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2007-2025.	1.9	94
79	Decadal trends in aerosol chemical composition at Barrow, Alaska: 1976–2008. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8883-8888.	1.9	93
80	Chemical and optical properties of marine boundary layer aerosol particles of the mid-Pacific in relation to sources and meteorological transport. <i>Journal of Geophysical Research</i> , 1996, 101, 6931-6951.	3.3	91
81	Local closure during the First Aerosol Characterization Experiment (ACE 1): Aerosol mass concentration and scattering and backscattering coefficients. <i>Journal of Geophysical Research</i> , 1998, 103, 16575-16596.	3.3	89
82	Regional marine boundary layer aerosol size distributions in the Indian, Atlantic, and Pacific Oceans: A comparison of INDOEX measurements with ACE-1, ACE-2, and Aerosols99. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 25-1.	3.3	88
83	EUREC4A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	3.7	88
84	The biogeochemical sulfur cycle in the marine boundary layer over the Northeast Pacific Ocean. <i>Journal of Atmospheric Chemistry</i> , 1990, 10, 59-81.	1.4	85
85	Comparison of measured and calculated aerosol properties relevant to the direct radiative forcing of tropospheric sulfate aerosol on climate. <i>Journal of Geophysical Research</i> , 1995, 100, 8977.	3.3	85
86	Comparison of Aerosol Single Scattering Albedos Derived by Diverse Techniques in Two North Atlantic Experiments. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 609-619.	0.6	85
87	Influence of transport and ocean ice extent on biogenic aerosol sulfur in the Arctic atmosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	85
88	Size-resolved characterization of the polysaccharidic and proteinaceous components of sea spray aerosol. <i>Atmospheric Environment</i> , 2017, 154, 331-347.	1.9	81
89	Gravimetric analysis, ionic composition, and associated water mass of the marine aerosol. <i>Atmospheric Environment</i> , 1996, 30, 869-884.	1.9	80
90	Regional physical and chemical properties of the marine boundary layer aerosol across the Atlantic during Aerosols99: An overview. <i>Journal of Geophysical Research</i> , 2001, 106, 20767-20782.	3.3	80

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91	Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. Journal of Geophysical Research, 2004, 109, .	3.3	80
92	Numerical study of Asian dust transport during the springtime of 2001 simulated with the Chemical Weather Forecasting System (CFORS) model. Journal of Geophysical Research, 2004, 109, .	3.3	80
93	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO _x and VOC Control as Mitigation Strategies. Geophysical Research Letters, 2019, 46, 4971-4979.	1.5	80
94	Dominant aerosol chemical components and their contribution to extinction during the Aerosols99 cruise across the Atlantic. Journal of Geophysical Research, 2001, 106, 20783-20809.	3.3	79
95	Measurements of atmospheric aerosol vertical distributions above Svalbard, Norway, using unmanned aerial systems (UAS). Atmospheric Measurement Techniques, 2013, 6, 2115-2120.	1.2	79
96	Observations of the atmospheric sulfur cycle on SAGA 3. Journal of Geophysical Research, 1993, 98, 16985-16995.	3.3	78
97	Carbonaceous aerosol over the Indian Ocean: OC/EC fractions and selected specifications from size-segregated onboard samples. Journal of Geophysical Research, 2002, 107, INX2 30-1.	3.3	78
98	A model for the radiative forcing during ACE-Asia derived from CIRPAS Twin Otter and R/Ronald H. Brown data and comparison with observations. Journal of Geophysical Research, 2003, 108, .	3.3	78
99	Global sea-salt modeling: Results and validation against multicampaign shipboard measurements. Journal of Geophysical Research, 2007, 112, .	3.3	77
100	Aerosol non-sea-salt sulfate in the remote marine boundary layer under clear-sky and normal cloudiness conditions: Ocean-derived biogenic alkalinity enhances sea-salt sulfate production by ozone oxidation. Journal of Geophysical Research, 2004, 109, .	3.3	76
101	A Measurement of Total Reactive Nitrogen, NO _x , together with NO ₂ , NO, and O ₃ via Cavity Ring-down Spectroscopy. Environmental Science & Technology, 2014, 48, 9609-9615.	4.6	75
102	A comparison of aerosol chemical and optical properties from the 1st and 2nd Aerosol Characterization Experiments. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 239.	0.8	74
103	Influence of relative humidity on aerosol radiative forcing: An ACE-Asia experiment perspective. Journal of Geophysical Research, 2003, 108, .	3.3	74
104	A comparison and summary of aerosol optical properties as observed in situ from aircraft, ship, and land during ACE-Asia. Journal of Geophysical Research, 2005, 110, .	3.3	74
105	Boundary layer aerosol chemistry during TexAQS/GoMACCS 2006: Insights into aerosol sources and transformation processes. Journal of Geophysical Research, 2008, 113, .	3.3	73
106	Organic aerosol characterization by complementary measurements of chemical bonds and molecular fragments. Atmospheric Environment, 2009, 43, 6100-6105.	1.9	73
107	Surface submicron aerosol chemical composition: What fraction is not sulfate?. Journal of Geophysical Research, 2000, 105, 6785-6805.	3.3	70
108	Arctic organic aerosol measurements show particles from mixed combustion in spring haze and from frost flowers in winter. Geophysical Research Letters, 2010, 37, .	1.5	70

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109	Aerosol physical properties and processes in the lower marine boundary layer: a comparison of shipboard sub-micron data from ACE-1 and ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 52, 258.	0.8	66
110	Aerosol optical and hygroscopic properties during TexAQSA€CoMACCS 2006 and their impact on aerosol direct radiative forcing. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	65
111	The Impact of Aerosol Particle Mixing State on the Hygroscopicity of Sea Spray Aerosol. <i>ACS Central Science</i> , 2015, 1, 132-141.	5.3	64
112	Status and future of numerical atmospheric aerosol prediction with a focus on data requirements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10615-10643.	1.9	64
113	Unique ocean-derived particles serve as a proxy for changes in ocean chemistry. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	62
114	Dominance of organic aerosols in the marine boundary layer over the Gulf of Maine during NEAQS 2002 and their role in aerosol light scattering. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	61
115	North American, Asian, and Indian haze: Similar regional impacts on climate?. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	60
116	Geostationary satellite retrievals of aerosol optical thickness during ACE-Asia. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
117	A case study into the measurement of ship emissions from plume intercepts of the NOAA ship <i>Miller Freeman</i>. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1337-1352.	1.9	58
118	Dimethylsulfide (DMS) in the equatorial Pacific Ocean (1982 to 1996): Evidence of a climate feedback?. <i>Geophysical Research Letters</i> , 1997, 24, 861-864.	1.5	57
119	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1975-1993.	1.9	57
120	Volatile organic compound measurements at Trinidad Head, California, during ITCT 2K2: Analysis of sources, atmospheric composition, and aerosol residence times. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	56
121	Clear–sky infrared aerosol radiative forcing at the surface and the top of the atmosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2927-2947.	1.0	54
122	The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1857-1877.	1.7	52
123	Equilibria of the marine multiphase ammonia system. <i>Journal of Atmospheric Chemistry</i> , 1992, 14, 11-30.	1.4	51
124	Multiyear study of the dependence of sea salt aerosol on wind speed and sea ice conditions in the coastal Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9208-9219.	1.2	51
125	Evaluation of ground–based black carbon measurements by filter–based photometers at two Arctic sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3544-3572.	1.2	51
126	Atmospheric sulfur cycling in the southeastern Pacific – longitudinal distribution, vertical profile, and diel variability observed during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5079-5097.	1.9	50

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127	Spectral absorption of solar radiation by aerosols during ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	49
128	Light-enhanced primary marine aerosol production from biologically productive seawater. <i>Geophysical Research Letters</i> , 2014, 41, 2661-2670.	1.5	48
129	A Field Intercomparison of Three Cascade Impactors. <i>Aerosol Science and Technology</i> , 1998, 29, 475-492.	1.5	47
130	Characterization of black carbon-containing particles from soot particle aerosol mass spectrometer measurements on the R/V <i>Atlantis</i> during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2575-2593.	1.2	47
131	Oceanographic context of the First Aerosol Characterization Experiment (ACE 1): A physical, chemical, and biological overview. <i>Journal of Geophysical Research</i> , 1999, 104, 21649-21671.	3.3	46
132	AWARE: The Atmospheric Radiation Measurement (ARM) West Antarctic Radiation Experiment. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1069-E1091.	1.7	46
133	An intercomparison of five ammonia measurement techniques. <i>Journal of Geophysical Research</i> , 1992, 97, 11591-11611.	3.3	45
134	Lidar measurements during Aerosols99. <i>Journal of Geophysical Research</i> , 2001, 106, 20821-20831.	3.3	45
135	Isotopic analysis of aerosol sulfate and nitrate during ITCT-2k2: Determination of different formation pathways as a function of particle size. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
136	Black carbon emissions from in-use ships: a California regional assessment. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1881-1896.	1.9	45
137	Observations of gas phase hydrochloric acid in the polluted marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6897-6915.	1.2	44
138	Factors driving the seasonal and hourly variability of sea-spray aerosol number in the North Atlantic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20309-20314.	3.3	43
139	Comment on "Contribution of different aerosol species to the global aerosol extinction optical thickness: Estimates from model results" by Tegen et al.. <i>Journal of Geophysical Research</i> , 1999, 104, 4241-4248.	3.3	42
140	Environmental snapshots from ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	42
141	Aerosol optical properties along the northeast coast of North America during the New England Air Quality Study-Intercontinental Transport and Chemical Transformation 2004 campaign and the influence of aerosol composition. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	41
142	An overview of the Lagrangian experiments undertaken during the North Atlantic regional Aerosol Characterisation Experiment (ACE-2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 52, 290.	0.8	40
143	Evolving research directions in Surface Ocean - Lower Atmosphere (SOLAS) science. <i>Environmental Chemistry</i> , 2013, 10, 1.	0.7	40
144	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

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145	Ammonia, the dominant base in the remote marine troposphere: a review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1987, 39B, 413-425.	0.8	39
146	Summertime pollution events in the Arctic and potential implications. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	39
147	Multi-grid-cell validation of satellite aerosol property retrievals in INTEX/ITCT/ICARTT 2004. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	39
148	Relative humidity dependence of light absorption by mineral dust after long-range atmospheric transport from the Sahara. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	38
149	Seasonal Differences and Variability of Concentrations, Chemical Composition, and Cloud Condensation Nuclei of Marine Aerosol Over the North Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033145.	1.2	36
150	Collection efficiencies of a tandem sampling system for atmospheric aerosol particles and gaseous ammonia and sulfur dioxide. <i>Environmental Science & Technology</i> , 1989, 23, 736-739.	4.6	35
151	Response to Comment on "Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon". <i>Science</i> , 2013, 339, 393-393.	6.0	35
152	Hygroscopic growth of submicron and supermicron aerosols in the marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8384-8399.	1.2	35
153	Coupled ocean-atmosphere loss of marine refractory dissolved organic carbon. <i>Geophysical Research Letters</i> , 2016, 43, 2765-2772.	1.5	35
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