

Patricia K Quinn

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7342201/patricia-k-quinn-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231
papers

21,971
citations

80
h-index

144
g-index

247
ext. papers

24,484
ext. citations

7.4
avg, IF

6.21
L-index

#	Paper	IF	Citations
231	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	4.4	3330
230	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		1041
229	Radiative absorption enhancements due to the mixing state of atmospheric black carbon. <i>Science</i> , 2012 , 337, 1078-81	33.3	485
228	A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. <i>Nature</i> , 2010 , 464, 271-4	50.4	471
227	Spectral absorption properties of atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5937-5943	4.41	
226	The case against climate regulation via oceanic phytoplankton sulphur emissions. <i>Nature</i> , 2011 , 480, 51-6	50.4	419
225	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	6.8	393
224	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	10.3	366
223	High levels of nitryl chloride in the polluted subtropical marine boundary layer. <i>Nature Geoscience</i> , 2008 , 1, 324-328	18.3	326
222	Influence of sea-salt on aerosol radiative properties in the Southern Ocean marine boundary layer. <i>Nature</i> , 1998 , 392, 62-65	50.4	312
221	Short-lived pollutants in the Arctic: their climate impact and possible mitigation strategies. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1723-1735	6.8	292
220	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	6.1	285
219	Atmospheric deposition of nutrients to the North Atlantic Basin. <i>Biogeochemistry</i> , 1996 , 35, 27-73	3.8	283
218	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, 6652-7	11.5	274
217	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	3.4	223
216	Chemistry and related properties of freshly emitted sea spray aerosol. <i>Chemical Reviews</i> , 2015 , 115, 4388-4399	6.99	220
215	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	3.4	219

214	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	6.8	217
213	Arctic haze: current trends and knowledge gaps. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 99-114	3.3	217
212	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	3.3	208
211	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		207
210	Maritime Aerosol Network as a component of Aerosol Robotic Network. <i>Journal of Geophysical Research</i> , 2009 , 114,		203
209	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,		202
208	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		202
207	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	6.8	201
206	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	6.8	182
205	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	4.4	178
204	Sources, distribution, and acidity of sulfate-ammonium aerosol in the Arctic in winter-spring. <i>Atmospheric Environment</i> , 2011 , 45, 7301-7318	5.3	170
203	Characterization of Asian Dust during ACE-Asia. <i>Global and Planetary Change</i> , 2006 , 52, 23-56	4.2	170
202	New particle formation in the marine boundary layer. <i>Journal of Geophysical Research</i> , 1992 , 97, 20581		170
201	Contribution of sea surface carbon pool to organic matter enrichment in sea spray aerosol. <i>Nature Geoscience</i> , 2014 , 7, 228-232	18.3	167
200	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,		162
199	Modelled radiative forcing of the direct aerosol effect with multi-observation evaluation. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1365-1392	6.8	161
198	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,		158
197	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		149

196	Interactions between the sulfur and reduced nitrogen cycles over the central Pacific Ocean. <i>Journal of Geophysical Research</i> , 1990 , 95, 16405		147
195	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	6.8	144
194	Simultaneous observations of ammonia in the atmosphere and ocean. <i>Nature</i> , 1988 , 335, 336-338	50.4	144
193	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		142
192	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		136
191	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	6.8	135
190	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		135
189	Particulate emissions from commercial shipping: Chemical, physical, and optical properties. <i>Journal of Geophysical Research</i> , 2009 , 114,		133
188	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,		133
187	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		122
186	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	4	121
185	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		121
184	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	6.8	115
183	Oxygenated fraction and mass of organic aerosol from direct emission and atmospheric processing measured on the R/V Ronald Brown during TEXAQS/GoMACCS 2006. <i>Journal of Geophysical Research</i> , 2009 , 114,		113
182	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,		113
181	Nighttime removal of NO _x in the summer marine boundary layer. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	112
180	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	6.8	111
179	Direct observations of N ₂ O ₅ reactivity on ambient aerosol particles. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	109

178	Small fraction of marine cloud condensation nuclei made up of sea spray aerosol. <i>Nature Geoscience</i> , 2017 , 10, 674-679	18.3	108
177	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	6.8	105
176	Aerosol optical properties measured on board the Ronald H. Brown during ACE-Asia as a function of aerosol chemical composition and source region. <i>Journal of Geophysical Research</i> , 2004 , 109,		105
175	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		105
174	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	4.9	101
173	Influence of particle size and chemistry on the cloud nucleating properties of aerosols. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1029-1042	6.8	100
172	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		100
171	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		98
170	Impact of fuel quality regulation and speed reductions on shipping emissions: implications for climate and air quality. <i>Environmental Science & Technology</i> , 2011 , 45, 9052-60	10.3	95
169	Laboratory studies of products of N ₂ O ₅ uptake on Cl-containing substrates. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	95
168	Characterization of carbonaceous aerosols outflow from India and Arabia: Biomass/biofuel burning and fossil fuel combustion. <i>Journal of Geophysical Research</i> , 2003 , 108,		94
167	Sampling methods used for the collection of particle-phase organic and elemental carbon during ACE-Asia. <i>Atmospheric Environment</i> , 2003 , 37, 1435-1449	5.3	93
166	Aerosol optical properties during INDOEX 1999: Means, variability, and controlling factors. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 19-1		92
165	The Ocean's Vital Skin: Toward an Integrated Understanding of the Sea Surface Microlayer. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	90
164	Springtime Arctic haze contributions of submicron organic particles from European and Asian combustion sources. <i>Journal of Geophysical Research</i> , 2011 , 116,		90
163	Hygroscopic properties of different aerosol types over the Atlantic and Indian Oceans. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1377-1397	6.8	88
162	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,		86
161	Arctic Air Pollution: New Insights from POLARCAT-IPY. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 1873-1895	6.1	85

160	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,		85
159	Measurements of ocean derived aerosol off the coast of California. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		84
158	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		83
157	The biogeochemical sulfur cycle in the marine boundary layer over the Northeast Pacific Ocean. <i>Journal of Atmospheric Chemistry</i> , 1990 , 10, 59-81	3.2	83
156	Sources and composition of submicron organic mass in marine aerosol particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,977-13,003	4.4	81
155	Decadal trends in aerosol chemical composition at Barrow, Alaska: 1976-2008. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8883-8888	6.8	81
154	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2007-2025	6.8	81
153	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		81
152	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,		80
151	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		79
150	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		78
149	Influence of transport and ocean ice extent on biogenic aerosol sulfur in the Arctic atmosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		75
148	Observations of the atmospheric sulfur cycle on SAGA 3. <i>Journal of Geophysical Research</i> , 1993 , 98, 16985		75
147	Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. <i>Journal of Geophysical Research</i> , 2004 , 109,		74
146	Numerical study of Asian dust transport during the springtime of 2001 simulated with the Chemical Weather Forecasting System (CFORS) model. <i>Journal of Geophysical Research</i> , 2004 , 109,		74
145	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		71
144	Gravimetric analysis, ionic composition, and associated water mass of the marine aerosol. <i>Atmospheric Environment</i> , 1996 , 30, 869-884	5.3	71
143	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	2.1	70

142	Carbonaceous aerosol over the Indian Ocean: OC/EC fractions and selected specifications from size-segregated onboard samples. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 30-1		70
141	Global sea-salt modeling: Results and validation against multicampaign shipboard measurements. <i>Journal of Geophysical Research</i> , 2007 , 112,		69
140	A comparison and summary of aerosol optical properties as observed in situ from aircraft, ship, and land during ACE-Asia. <i>Journal of Geophysical Research</i> , 2005 , 110,		67
139	Dominant aerosol chemical components and their contribution to extinction during the Aerosols99 cruise across the Atlantic. <i>Journal of Geophysical Research</i> , 2001 , 106, 20783-20809		67
138	A measurement of total reactive nitrogen, NO _y , together with NO ₂ and NO ₃ via cavity ring-down spectroscopy. <i>Environmental Science & Technology</i> , 2014 , 48, 9609-15	10.3	66
137	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. <i>Journal of Geophysical Research</i> , 2004 , 109,		66
136	Substantial Seasonal Contribution of Observed Biogenic Sulfate Particles to Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018 , 8, 3235	4.9	65
135	Boundary layer aerosol chemistry during TexAQS/GoMACCS 2006: Insights into aerosol sources and transformation processes. <i>Journal of Geophysical Research</i> , 2008 , 113,		65
134	Influence of relative humidity on aerosol radiative forcing: An ACE-Asia experiment perspective. <i>Journal of Geophysical Research</i> , 2003 , 108,		64
133	Arctic organic aerosol measurements show particles from mixed combustion in spring haze and from frost flowers in winter. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	63
132	Organic aerosol characterization by complementary measurements of chemical bonds and molecular fragments. <i>Atmospheric Environment</i> , 2009 , 43, 6100-6105	5.3	63
131	A model for the radiative forcing during ACE-Asia derived from CIRPAS Twin Otter and R/V Ronald H. Brown data and comparison with observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		60
130	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	58
129	A comparison of aerosol chemical and optical properties from the 1st and 2nd Aerosol Characterization Experiments. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 239-257	3.3	58
128	Measurements of atmospheric aerosol vertical distributions above Svalbard, Norway, using unmanned aerial systems (UAS). <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2115-2120	4	57
127	Aerosol optical and hygroscopic properties during TexAQS-GoMACCS 2006 and their impact on aerosol direct radiative forcing. <i>Journal of Geophysical Research</i> , 2009 , 114,		57
126	Surface submicron aerosol chemical composition: What fraction is not sulfate?. <i>Journal of Geophysical Research</i> , 2000 , 105, 6785-6805		57
125	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,		55

124	North American, Asian, and Indian haze: Similar regional impacts on climate?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	55
123	Unique ocean-derived particles serve as a proxy for changes in ocean chemistry. <i>Journal of Geophysical Research</i> , 2011 , 116,		54
122	Size-resolved characterization of the polysaccharidic and proteinaceous components of sea spray aerosol. <i>Atmospheric Environment</i> , 2017 , 154, 331-347	5.3	49
121	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,		49
120	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> , 2000 , 52, 258-272	3.3	48
119	Geostationary satellite retrievals of aerosol optical thickness during ACE-Asia. <i>Journal of Geophysical Research</i> , 2003 , 108,		47
118	Equilibria of the marine multiphase ammonia system. <i>Journal of Atmospheric Chemistry</i> , 1992 , 14, 11-30	3.2	46
117	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NOx and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019 , 46, 4971-4979	4.9	45
116	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	6.8	45
115	Spectral absorption of solar radiation by aerosols during ACE-Asia. <i>Journal of Geophysical Research</i> , 2004 , 109,		44
114	A Field Intercomparison of Three Cascade Impactors. <i>Aerosol Science and Technology</i> , 1998 , 29, 475-492	3.4	44
113	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		44
112	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	6.1	43
111	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	6.8	43
110	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	6.8	43
109	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	6.4	42
108	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	4.4	41
107	An intercomparison of five ammonia measurement techniques. <i>Journal of Geophysical Research</i> , 1992 , 97, 11591		41

106	Light-enhanced primary marine aerosol production from biologically productive seawater. <i>Geophysical Research Letters</i> , 2014 , 41, 2661-2670	4.9	40
105	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		40
104	Dimethylsulfide (DMS) in the equatorial Pacific Ocean (1982 to 1996): Evidence of a climate feedback?. <i>Geophysical Research Letters</i> , 1997 , 24, 861-864	4.9	39
103	Multi-grid-cell validation of satellite aerosol property retrievals in INTEX/ITCT/ICARTT 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		39
102	The Impact of Aerosol Particle Mixing State on the Hygroscopicity of Sea Spray Aerosol. <i>ACS Central Science</i> , 2015 , 1, 132-41	16.8	37
101	Relative humidity dependence of light absorption by mineral dust after long-range atmospheric transport from the Sahara. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	37
100	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	4.4	36
99	Black carbon emissions from in-use ships: a California regional assessment. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1881-1896	6.8	36
98	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,		36
97	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,		36
96	Summertime pollution events in the Arctic and potential implications. <i>Journal of Geophysical Research</i> , 2006 , 111,		36
95	Observations of gas phase hydrochloric acid in the polluted marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6897-6915	4.4	34
94	Characterization of black carbon-containing particles from soot particle aerosol mass spectrometer measurements on the R/V Atlantis during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2575-2593	4.4	34
93	Lidar measurements during Aerosols99. <i>Journal of Geophysical Research</i> , 2001 , 106, 20821-20831		34
92	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	10.3	34
91	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1987 , 39B, 413-425	3.3	34
90	Status and future of numerical atmospheric aerosol prediction with a focus on data requirements. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10615-10643	6.8	34
89	Estimation of the air/sea exchange of ammonia for the North Atlantic Basin. <i>Biogeochemistry</i> , 1996 , 35, 275-304	3.8	33

88	Environmental snapshots from ACE-Asia. <i>Journal of Geophysical Research</i> , 2004 , 109,		32
87	A comparison of aerosol chemical and optical properties from the 1st and 2nd Aerosol Characterization Experiments. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 239-257	3.3	32
86	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 662-677	3.3	32
85	Response to comment on "Radiative absorption enhancements due to the mixing state of atmospheric black carbon". <i>Science</i> , 2013 , 339, 393	33.3	31
84	Evolving research directions in Surface Ocean - Lower Atmosphere (SOLAS) science. <i>Environmental Chemistry</i> , 2013 , 10, 1	3.2	31
83	Modeling heterogeneous ClNO ₂ formation, chloride availability, and chlorine cycling in Southeast Texas. <i>Atmospheric Environment</i> , 2010 , 44, 5476-5488	5.3	30
82	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> , 2000 , 52, 258-272	3.3	30
81	The impact of shipping, agricultural, and urban emissions on single particle chemistry observed aboard the R/V Atlantis during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5003-5017	4.4	29
80	Measurement of Aerosol Organic Compounds Using a Novel Collection/Thermal-Desorption PTR-ITMS Instrument. <i>Aerosol Science and Technology</i> , 2009 , 43, 486-501	3.4	29
79	Causes of variability in light absorption by particles in snow at sites in Idaho and Utah. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4751-4768	4.4	29
78	Aerosol optical depth measurements during the Aerosols99 experiment. <i>Journal of Geophysical Research</i> , 2001 , 106, 20811-20819		28
77	Coupled ocean-atmosphere loss of marine refractory dissolved organic carbon. <i>Geophysical Research Letters</i> , 2016 , 43, 2765-2772	4.9	27
76	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5727-5741	6.8	27
75	Spatial and diurnal variability in reactive nitrogen oxide chemistry as reflected in the isotopic composition of atmospheric nitrate: Results from the CalNex 2010 field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,567-10,588	4.4	27
74	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> , 2000 , 52, 290-320	3.3	27
73	Multiscale simulations of tropospheric chemistry in the eastern Pacific and on the U.S. West Coast during spring 2002. <i>Journal of Geophysical Research</i> , 2004 , 109,		26
72	EUREC&sup>t4&sup>A. <i>Earth System Science Data</i> , 2021 , 13, 4067-4119	10.5	26
71	Hygroscopic growth of submicron and supermicron aerosols in the marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 8384-8399	4.4	25

70	Peroxynitric acid (HO ₂ NO ₂) measurements during the UBWOS 2013 and 2014 studies using iodide ion chemical ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8101-8114	6.8	24
69	Effect of wind speed on aerosol optical depth over remote oceans, based on data from the Maritime Aerosol Network. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 377-388	4	24
68	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 290-320	3.3	24
67	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	11.5	24
66	Assessment of WRF/Chem to simulate subArctic boundary layer characteristics during low solar irradiation using radiosonde, SODAR, and surface data. <i>Atmospheric Pollution Research</i> , 2011 , 2, 283-299	4.5	23
65	Shipboard measurements of concentrations and properties of carbonaceous aerosols during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 228-238	3.3	23
64	AWARE: The Atmospheric Radiation Measurement (ARM) West Antarctic Radiation Experiment. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1069-E1091	6.1	23
63	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 594-619	3.3	22
62	Side-by-Side Comparison of Four Techniques Explains the Apparent Differences in the Organic Composition of Generated and Ambient Marine Aerosol Particles. <i>Aerosol Science and Technology</i> , 2014 , 48, v-x	3.4	21
61	Molecular distributions and isotopic compositions of organic aerosols over the western North Atlantic: Dicarboxylic acids, related compounds, sugars, and secondary organic aerosol tracers. <i>Organic Geochemistry</i> , 2017 , 113, 229-238	3.1	20
60	Verification and application of the extended spectral deconvolution algorithm (SDA+) methodology to estimate aerosol fine and coarse mode extinction coefficients in the marine boundary layer. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3399-3412	4	20
59	The Combined Sensor Program: An AirSea Science Mission in the Central and Western Pacific Ocean. <i>Bulletin of the American Meteorological Society</i> , 1997 , 78, 2797-2815	6.1	20
58	Aerosol optical depths and direct radiative forcing for INDOEX derived from AVHRR: Theory. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 8-1		20
57	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 573-583	6.8	19
56	Atmospheric aerosol properties over the equatorial Indian Ocean and the impact of the Madden-Julian Oscillation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5736-5749	4.4	19
55	Variability in Marine Plankton Ecosystems Are Not Observed in Freshly Emitted Sea Spray Aerosol Over the North Atlantic Ocean. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085938	4.9	19
54	Nitrous acid formation in a snow-free wintertime polluted rural area. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1977-1996	6.8	17
53	Factors That Modulate Properties of Primary Marine Aerosol Generated From Ambient Seawater on Ships at Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,961-11,990	4.4	17

52	Aerosol optical properties during the 2004 New England Air Quality Study Intercontinental Transport and Chemical Transformation: Gulf of Maine surface measurements Regional and case studies. <i>Journal of Geophysical Research</i> , 2006 , 111,		17
51	Observations of the evolution of the aerosol, cloud and boundary-layer characteristics during the 1st ACE-2 Lagrangian experiment. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 348-374	3-3	17
50	Frost flower aerosol effects on Arctic wintertime longwave cloud radiative forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,282-13,291	4-4	16
49	Evolution of the aerosol, cloud and boundary-layer dynamic and thermodynamic characteristics during the 2nd Lagrangian experiment of ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 375-400	3-3	16
48	Boundary layer and aerosol evolution during the 3rd Lagrangian experiment of ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 401-422	3-3	16
47	Ice Nucleation by Marine Aerosols Over the North Atlantic Ocean in Late Spring. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030913	4-4	15
46	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 375-400	3-3	15
45	Comparison of in situ and columnar aerosol spectral measurements during TexAQS-GoMACCS 2006: testing parameterizations for estimating aerosol fine mode properties. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 51-61	6-8	14
44	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	4-4	14
43	Regional aerosol optical depth characteristics from satellite observations: ACE-1, TARFOX and ACE-2 results. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 484-497	3-3	13
42	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 228-238	3-3	12
41	Particulate organic nitrates observed in an oil and natural gas production region during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9313-9325	6-8	11
40	Boundary layer and aerosol evolution during the 3rd Lagrangian experiment of ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 401-422	3-3	11
39	Observations of the evolution of the aerosol, cloud and boundary-layer characteristics during the 1st ACE-2 Lagrangian experiment. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 348-374	3-3	11
38	Ammonia, the dominant base in the remote marine troposphere: a review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1987 , 39, 413-425	3-3	11
37	A practical set of miniaturized instruments for vertical profiling of aerosol physical properties. <i>Aerosol Science and Technology</i> , 2017 , 51, 715-723	3-4	9
36	Source characterization from ambient measurements of aerosol optical properties. <i>Geophysical Research Letters</i> , 2009 , 36,	4-9	9
35	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic climate (ARCPAC) project		9

34	Spectral absorption properties of atmospheric aerosols		9
33	Long-Term Trends for Marine Sulfur Aerosol in the Alaskan Arctic and Relationships With Temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033225	4.4	9
32	Measurements from the RV & Ronald H. Brown and related platforms as part of the Atlantic Tradewind Ocean-Atmosphere Mesoscale Interaction Campaign (ATOMIC). <i>Earth System Science Data</i> , 2021 , 13, 1759-1790	10.5	9
31	Surface ocean-lower atmosphere study: Scientific synthesis and contribution to Earth system science. <i>Anthropocene</i> , 2015 , 12, 54-68	3.9	8
30	The magnitude of the snow-sourced reactive nitrogen flux to the boundary layer in the Uintah Basin, Utah, USA. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13837-13851	6.8	6
29	Multi-decadal variations of atmospheric aerosols from 1980 to 2009: sources and regional trends		6
28	CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations		6
27	Global distribution of sea salt aerosols: new constraints from in situ and remote sensing observations		5
26	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set		5
25	Separating refractory and non-refractory particulate chloride and estimating chloride depletion by aerosol mass spectrometry in a marine environment		4
24	Pan-Arctic seasonal cycles and long-term trends of aerosol properties from 10 observatories. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 3067-3096	6.8	4
23	Maritime Aerosol Network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals 2011 ,		3
22	Regional aerosol optical depth characteristics from satellite observations: ACE-1, TARFOX and ACE-2 results. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 484-497	3.3	3
21	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event		3
20	Estimation of the air/sea exchange of ammonia for the North Atlantic Basin 1996 , 275-304		3
19	Seasonal Differences in Submicron Marine Aerosol Particle Organic Composition in the North Atlantic. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	3
18	From Sugar to Flowers: A Transition of Shallow Cumulus Organization During ATOMIC. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2021MS002619	7.1	3
17	Analysis of shipboard aerosol optical thickness measurements from multiple sunphotometers aboard the R/V Ronald H. Brown during the Aerosol Characterization Experiment--Asia. <i>Applied Optics</i> , 2005 , 44, 3805-20	1.7	2

16	North Atlantic marine organic aerosol characterized by novel offline thermal desorption mass spectrometry: polysaccharides, recalcitrant material, and secondary organics. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 16007-16022	6.8	2
15	Long-term trends of black carbon and sulphate aerosol in the Arctic: changes in atmospheric transport and source region emissions		2
14	Black carbon emissions from in-use ships: a California regional assessment		2
13	Influence of particle size and chemistry on the cloud nucleating properties of aerosols		2
12	Arctic Aerosols. <i>Springer Polar Sciences</i> , 2020 , 209-329	0.4	2
11	EUREC4A		2
10	Linking marine phytoplankton emissions, meteorological processes, and downwind particle properties with FLEXPART. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 831-851	6.8	2
9	Verification and application of the extended Spectral Deconvolution Algorithm (SDA+) methodology to estimate aerosol fine and coarse mode extinction coefficients in the marine boundary layer 2014 ,		1
8	Particulate organic nitrates observed in an oil and natural gas production region during wintertime		1
7	Total Observed Organic Carbon (TOOC): A synthesis of North American observations		1
6	Decadal trends in aerosol chemical composition at Barrow, AK: 1976-2008		1
5	Source identification of short-lived air pollutants in the Arctic using statistical analysis of measurement data and particle dispersion model output		1
4	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region		1
3	EUREC4A		1
2	Solid organic-coated ammonium sulfate particles at high relative humidity in the summertime Arctic atmosphere.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2104496119	11.5	0
1	North Atlantic Ocean SST-gradient-driven variations in aerosol and cloud evolution along Lagrangian cold-air outbreak trajectories. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 2795-2815	6.8	0