Hugh Coe

List of Publications by Year
in descending order

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316 papers	30,893 citations	5569 82 h-index	7944 149 g-index
456 all docs	456 docs citations	456 times ranked	12556 citing authors

#	Article	IF	Citations
1	Evolution of Organic Aerosols in the Atmosphere. Science, 2009, 326, 1525-1529.	6.0	3,374
2	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenicallyâ€influenced Northern Hemisphere midlatitudes. Geophysical Research Letters, 2007, 34, .	1.5	1,773
3	Chemical and microphysical characterization of ambient aerosols with the aerodyne aerosol mass spectrometer. Mass Spectrometry Reviews, 2007, 26, 185-222.	2.8	1,708
4	A generalised method for the extraction of chemically resolved mass spectra from Aerodyne aerosol mass spectrometer data. Journal of Aerosol Science, 2004, 35, 909-922.	1.8	702
5	The effect of physical and chemical aerosol properties on warm cloud droplet activation. Atmospheric Chemistry and Physics, 2006, 6, 2593-2649.	1.9	690
6	Deconvolution and Quantification of Hydrocarbon-like and Oxygenated Organic Aerosols Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2005, 39, 4938-4952.	4.6	617
7	Improving our fundamental understanding of the role of aerosolâ^'cloud interactions in the climate system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5781-5790.	3.3	479
8	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. Atmospheric Chemistry and Physics, 2011, 11, 12109-12136.	1.9	421
9	Characterization of urban and rural organic particulate in the Lower Fraser Valley using two Aerodyne Aerosol Mass Spectrometers. Atmospheric Environment, 2004, 38, 5745-5758.	1.9	384
10	Quantitative sampling using an Aerodyne aerosol mass spectrometer 1. Techniques of data interpretation and error analysis. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	374
11	Contributions from transport, solid fuel burning and cooking to primary organic aerosols in two UK cities. Atmospheric Chemistry and Physics, 2010, 10, 647-668.	1.9	366
12	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. Atmospheric Chemistry and Physics, 2011, 11, 7669-7686.	1.9	329
13	Black-carbon absorption enhancement in the atmosphere determined by particle mixingÂstate. Nature Geoscience, 2017, 10, 184-188.	5.4	303
14	Evolution of trace gases and particles emitted by a chaparral fire in California. Atmospheric Chemistry and Physics, 2012, 12, 1397-1421.	1.9	300
15	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions. Atmospheric Chemistry and Physics, 2013, 13, 7683-7693.	1.9	297
16	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
17	Closure study between chemical composition and hygroscopic growth of aerosol particles during TORCH2. Atmospheric Chemistry and Physics, 2007, 7, 6131-6144.	1.9	273
18	Inversion of tandem differential mobility analyser (TDMA) measurements. Journal of Aerosol Science, 2009, 40, 134-151.	1.8	273

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19	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. Atmospheric Chemistry and Physics, 2011, 11, 627-654.	1.9	272
20	Direct evidence for coastal iodine particles from Laminaria macroalgae â€“ linkage to emissions of molecular iodine. Atmospheric Chemistry and Physics, 2004, 4, 701-713.	1.9	252
21	A mass spectrometric study of secondary organic aerosols formed from the photooxidation of anthropogenic and biogenic precursors in a reaction chamber. Atmospheric Chemistry and Physics, 2006, 6, 5279-5293.	1.9	247
22	Secondary organic aerosols from anthropogenic and biogenic precursors. Faraday Discussions, 2005, 130, 265.	1.6	245
23	A curved multi-component aerosol hygroscopicity model framework: Part 1 â€“ Inorganic compounds. Atmospheric Chemistry and Physics, 2005, 5, 1205-1222.	1.9	244
24	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model. Atmospheric Chemistry and Physics, 2011, 11, 12673-12696.	1.9	240
25	Aging of biomass burning aerosols over West Africa: Aircraft measurements of chemical composition, microphysical properties, and emission ratios. Journal of Geophysical Research, 2008, 113, .	3.3	238
26	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon. Atmospheric Chemistry and Physics, 2014, 14, 10989-11010.	1.9	213
27	Hygroscopic growth and water uptake kinetics of two-phase aerosol particles consisting of ammonium sulfate, adipic and humic acid mixtures. Journal of Aerosol Science, 2007, 38, 157-171.	1.8	206
28	The role of VOC oxidation products in continental new particle formation. Atmospheric Chemistry and Physics, 2008, 8, 2657-2665.	1.9	202
29	Strong constraints on aerosolâ€“cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	13.7	191
30	Overview of the Dust and Biomassâ€burning Experiment and African Monsoon Multidisciplinary Analysis Special Observing Periodâ€0. Journal of Geophysical Research, 2008, 113, .	3.3	188
31	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833.	1.9	185
32	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction. Atmospheric Chemistry and Physics, 2010, 10, 4065-4083.	1.9	184
33	Air quality and human health improvements from reductions in deforestation-related fire in Brazil. Nature Geoscience, 2015, 8, 768-771.	5.4	180
34	A curved multi-component aerosol hygroscopicity model framework: Part 2 â€“ Including organic compounds. Atmospheric Chemistry and Physics, 2005, 5, 1223-1242.	1.9	171
35	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. Geophysical Research Letters, 2009, 36, .	1.5	171
36	Size distribution, mixing state and source apportionment of black carbon aerosol in London during wintertime. Atmospheric Chemistry and Physics, 2014, 14, 10061-10084.	1.9	171

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37	Simulating regional scale secondary organic aerosol formation during the TORCH 2003 campaign in the southern UK. Atmospheric Chemistry and Physics, 2006, 6, 403-418.	1.9	170
38	Quantitative sampling using an Aerodyne aerosol mass spectrometer 2. Measurements of fine particulate chemical composition in two U.K. cities. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	166
39	Observations of iodine monoxide in the remote marine boundary layer. Journal of Geophysical Research, 2000, 105, 14363-14369.	3.3	160
40	Black carbon measurements in the boundary layer over western and northern Europe. Atmospheric Chemistry and Physics, 2010, 10, 9393-9414.	1.9	155
41	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From Highâ€Resolution Aerosol Mass Spectrometry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1132-1147.	1.2	155
42	Seasonal variations of the physical and optical characteristics of Saharan dust: Results from the Dust Outflow and Deposition to the Ocean (DODO) experiment. Journal of Geophysical Research, 2008, 113, .	3.3	153
43	The water-soluble organic component of size-segregated aerosol, cloud water and wet depositions from Jeju Island during ACE-Asia. Atmospheric Environment, 2005, 39, 211-222.	1.9	152
44	Regional variability of the composition of mineral dust from western Africa: Results from the AMMA SOP0/DABEX and DODO field campaigns. Journal of Geophysical Research, 2008, 113, .	3.3	152
45	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest. Atmospheric Chemistry and Physics, 2011, 11, 1039-1050.	1.9	152
46	Single Particle Soot Photometer intercomparison at the AIDA chamber. Atmospheric Measurement Techniques, 2012, 5, 3077-3097.	1.2	152
47	Ambient black carbon particle hygroscopic properties controlled by mixing state and composition. Atmospheric Chemistry and Physics, 2013, 13, 2015-2029.	1.9	152
48	Size and composition measurements of background aerosol and new particle growth in a Finnish forest during QUEST 2 using an Aerodyne Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2006, 6, 315-327.	1.9	150
49	Submicron aerosol composition at Trinidad Head, California, during ITCT 2K2: Its relationship with gas phase volatile organic carbon and assessment of instrument performance. Journal of Geophysical Research, 2004, 109, .	3.3	144
50	Chemical composition of free tropospheric aerosol for PM1 and coarse mode at the high alpine site Jungfraujoch. Atmospheric Chemistry and Physics, 2008, 8, 407-423.	1.9	144
51	Laboratory-generated primary marine aerosol via bubble-bursting and atomization. Atmospheric Measurement Techniques, 2010, 3, 141-162.	1.2	142
52	An aircraft case study of the spatial transition from closed to open mesoscale cellular convection over the Southeast Pacific. Atmospheric Chemistry and Physics, 2011, 11, 2341-2370.	1.9	142
53	Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook's tour of mature and emerging technology. Atmospheric Research, 2011, 102, 10-29.	1.8	139
54	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. Atmospheric Chemistry and Physics, 2010, 10, 169-199.	1.9	130

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55	Marine cloud brightening. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4217-4262.	1.6	125
56	CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations. Atmospheric Chemistry and Physics, 2010, 10, 4795-4807.	1.9	124
57	Atmospheric chemistry and physics in the atmosphere of a developed megacity (London): an overview of the REPARTEE experiment and its conclusions. Atmospheric Chemistry and Physics, 2012, 12, 3065-3114.	1.9	124
58	South East Pacific atmospheric composition and variability sampled along 20Â° S during VOCALS-REx. Atmospheric Chemistry and Physics, 2011, 11, 5237-5262.	1.9	119
59	Observations of ice multiplication in a weakly convective cell embedded in supercooled mid-level stratus. Atmospheric Chemistry and Physics, 2011, 11, 257-273.	1.9	119
60	Simplification of the representation of the organic component of atmospheric particulates. Faraday Discussions, 2005, 130, 341.	1.6	118
61	New directions: Air pollution challenges for developing megacities like Delhi. Atmospheric Environment, 2015, 122, 657-661.	1.9	117
62	Aerosol emissions from prescribed fires in the United States: A synthesis of laboratory and aircraft measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,826-11,849.	1.2	116
63	Real-time secondary aerosol formation during a fog event in London. Atmospheric Chemistry and Physics, 2009, 9, 2459-2469.	1.9	114
64	Observations of the Nitrate Radical in the Marine Boundary Layer. Journal of Atmospheric Chemistry, 1999, 33, 129-154.	1.4	113
65	Impact of halogen monoxide chemistry upon boundary layer OH and HO2concentrations at a coastal site. Geophysical Research Letters, 2005, 32, .	1.5	113
66	Measurements and modelling of I₂, IO, OIO, BrO and NO₃ in the mid-latitude marine boundary layer. Atmospheric Chemistry and Physics, 2006, 6, 1513-1528.	1.9	113
67	Consistency between parameterisations of aerosol hygroscopicity and CCN activity during the RHaMBLe discovery cruise. Atmospheric Chemistry and Physics, 2010, 10, 3189-3203.	1.9	112
68	Chemical composition of summertime aerosol in the Po Valley (Italy), northern Adriatic and Black Sea. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 61-75.	1.0	111
69	Primary versus secondary contributions to particle number concentrations in the European boundary layer. Atmospheric Chemistry and Physics, 2011, 11, 12007-12036.	1.9	110
70	Single particle characterization of black carbon aerosols at a tropospheric alpine site in Switzerland. Atmospheric Chemistry and Physics, 2010, 10, 7389-7407.	1.9	109
71	On the impacts of phytoplankton-derived organic matter on the properties of the primary marine aerosol â€“ Part 1: Source fluxes. Atmospheric Chemistry and Physics, 2010, 10, 9295-9317.	1.9	109
72	Characterizing the Aging of Biomass Burning Organic Aerosol by Use of Mixing Ratios: A Meta-analysis of Four Regions. Environmental Science & Technology, 2012, 46, 13093-13102.	4.6	109

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73	On the impacts of phytoplankton-derived organic matter on the properties of the primary marine aerosol â€“ Part 2: Composition, hygroscopicity and cloud condensation activity. Atmospheric Chemistry and Physics, 2011, 11, 2585-2602.	1.9	106
74	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe. Atmospheric Chemistry and Physics, 2010, 10, 8151-8171.	1.9	105
75	Ground-based aerosol characterization during the South American Biomass Burning Analysis (SAMBBA) field experiment. Atmospheric Chemistry and Physics, 2014, 14, 12069-12083.	1.9	103
76	Influences on the fraction of hydrophobic and hydrophilic black carbon in the atmosphere. Atmospheric Chemistry and Physics, 2011, 11, 5099-5112.	1.9	101
77	Hygroscopicity of the submicrometer aerosol at the high-alpine site Jungfraujoch, 3580 m a.s.l., Switzerland. Atmospheric Chemistry and Physics, 2008, 8, 5715-5729.	1.9	100
78	Remarkable dynamics of nanoparticles in the urban atmosphere. Atmospheric Chemistry and Physics, 2011, 11, 6623-6637.	1.9	100
79	Simultaneous observations of nitrate and peroxy radicals in the marine boundary layer. Journal of Geophysical Research, 1997, 102, 18917-18933.	3.3	98
80	Assessment of the sensitivity of core / shell parameters derived using the single-particle soot photometer to density and refractive index. Atmospheric Measurement Techniques, 2015, 8, 1701-1718.	1.2	98
81	The mass and number size distributions of black carbon aerosol over Europe. Atmospheric Chemistry and Physics, 2013, 13, 4917-4939.	1.9	96
82	Investigating the links between ozone and organic aerosol chemistry in a biomass burning plume from a prescribed fire in California chaparral. Atmospheric Chemistry and Physics, 2015, 15, 6667-6688.	1.9	96
83	The nitrate radical in the remote marine boundary layer. Journal of Geophysical Research, 2000, 105, 24191-24204.	3.3	95
84	Introduction to the special issue â€œIn-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)â€• Atmospheric Chemistry and Physics, 2019, 19, 7519-7546.	1.9	95
85	Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025.	1.9	94
86	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. Nature Geoscience, 2021, 14, 77-84.	5.4	94
87	Chemical and aerosol characterisation of the troposphere over West Africa during the monsoon period as part of AMMA. Atmospheric Chemistry and Physics, 2010, 10, 7575-7601.	1.9	93
88	Ice formation and development in aged, wintertime cumulus over the UK: observations and modelling. Atmospheric Chemistry and Physics, 2012, 12, 4963-4985.	1.9	92
89	Aerosol chemical characteristics from sampling conducted on the Island of Jeju, Korea during ACE Asia. Atmospheric Environment, 2004, 38, 2111-2123.	1.9	91
90	An evaluation of global organic aerosol schemes using airborne observations. Atmospheric Chemistry and Physics, 2020, 20, 2637-2665.	1.9	90

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91	Contrasting physical properties of black carbon in urban Beijing between winter and summer. Atmospheric Chemistry and Physics, 2019, 19, 6749-6769.	1.9	89
92	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). Atmospheric Chemistry and Physics, 2015, 15, 3687-3701.	1.9	88
93	Vertical distribution of sub-micron aerosol chemical composition from North-Western Europe and the North-East Atlantic. Atmospheric Chemistry and Physics, 2009, 9, 5389-5401.	1.9	86
94	Black carbon aerosol mixing state, organic aerosols and aerosol optical properties over the United Kingdom. Atmospheric Chemistry and Physics, 2011, 11, 9037-9052.	1.9	86
95	Secondary organic aerosol from biogenic VOCs over West Africa during AMMA. Atmospheric Chemistry and Physics, 2009, 9, 3841-3850.	1.9	85
96	Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	85
97	Size-dependent wet removal of black carbon in Canadian biomass burning plumes. Atmospheric Chemistry and Physics, 2014, 14, 13755-13771.	1.9	85
98	The DACCIWA Project: Dynamicsâ€“Aerosolâ€“Chemistryâ€“Cloud Interactions in West Africa. Bulletin of the American Meteorological Society, 2015, 96, 1451-1460.	1.7	84
99	Characterization of black carbon-containing fine particles in Beijing during wintertime. Atmospheric Chemistry and Physics, 2019, 19, 447-458.	1.9	84
100	Real time chemical characterization of local and regional nitrate aerosols. Atmospheric Chemistry and Physics, 2009, 9, 3709-3720.	1.9	82
101	Coarse-mode mineral dust size distributions, composition and optical properties from AER-D aircraft measurements over the tropical eastern Atlantic. Atmospheric Chemistry and Physics, 2018, 18, 17225-17257.	1.9	80
102	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. Atmospheric Chemistry and Physics, 2011, 11, 1065-1082.	1.9	79
103	A study of the effect of overshooting deep convection on the water content of the TTL and lower stratosphere from Cloud Resolving Model simulations. Atmospheric Chemistry and Physics, 2007, 7, 4977-5002.	1.9	77
104	The effect of complex black carbon microphysics on the determination of the optical properties of brown carbon. Geophysical Research Letters, 2015, 42, 613-619.	1.5	77
105	Canopy scale measurements of stomatal and cuticular 03 uptake by sitka spruce. Atmospheric Environment, 1995, 29, 1413-1423.	1.9	76
106	Oceanâ€“Cloudâ€“Atmosphereâ€“Land Interactions in the Southeastern Pacific: The VOCALS Program. Bulletin of the American Meteorological Society, 2014, 95, 357-375.	1.7	76
107	The first UK measurements of nitryl chloride using a chemical ionization mass spectrometer in central London in the summer of 2012, and an investigation of the role of Cl atom oxidation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5638-5657.	1.2	76
108	Online Chemical Characterization of Food-Cooking Organic Aerosols: Implications for Source Apportionment. Environmental Science & Technology, 2018, 52, 5308-5318.	4.6	76

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109	Vertical characterization of aerosol optical properties and brown carbon in winter in urban Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 165-179.	1.9	73
110	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. Atmospheric Chemistry and Physics, 2015, 15, 11291-11309.	1.9	71
111	Chemical composition observed over the mid-Atlantic and the detection of pollution signatures far from source regions. Journal of Geophysical Research, 2007, 112, .	3.3	70
112	Impacts of nonrefractory material on light absorption by aerosols emitted from biomass burning. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,272.	1.2	69
113	Influence of aerosol chemical composition on N₂O₅ uptake: airborne regional measurements in northwestern Europe. Atmospheric Chemistry and Physics, 2015, 15, 973-990.	1.9	66
114	A modified hygroscopic tandem DMA and a data retrieval method based on optimal estimation. Journal of Aerosol Science, 2005, 36, 846-865.	1.8	65
115	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. Atmospheric Chemistry and Physics, 2006, 6, 2241-2272.	1.9	65
116	Impact of Alternative Fuels on Emissions Characteristics of a Gas Turbine Engine â€“ Part 1: Gaseous and Particulate Matter Emissions. Environmental Science & Technology, 2012, 46, 10805-10811.	4.6	64
117	Ozone photochemistry in boreal biomass burning plumes. Atmospheric Chemistry and Physics, 2013, 13, 7321-7341.	1.9	64
118	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO_{<i>x</i>} in Beijing. Atmospheric Chemistry and Physics, 2021, 21, 2125-2147.	1.9	64
119	The Dynamicsâ€“Aerosolâ€“Chemistryâ€“Cloud Interactions in West Africa Field Campaign: Overview and Research Highlights. Bulletin of the American Meteorological Society, 2018, 99, 83-104.	1.7	62
120	Airborne observations of formic acid using a chemical ionization mass spectrometer. Atmospheric Measurement Techniques, 2012, 5, 3029-3039.	1.2	61
121	Properties and evolution of biomass burning organic aerosol from Canadian boreal forest fires. Atmospheric Chemistry and Physics, 2015, 15, 3077-3095.	1.9	61
122	Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. Journal of Geophysical Research, 2006, 111, .	3.3	60
123	Widening the gap between measurement and modelling of secondary organic aerosol properties?. Atmospheric Chemistry and Physics, 2010, 10, 2577-2593.	1.9	60
124	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for LondonÂ(ClearfLo) campaign. Atmospheric Chemistry and Physics, 2016, 16, 6453-6473.	1.9	60
125	Biomass burning aerosol over the Amazon: analysis of aircraft, surface and satellite observations using a global aerosol model. Atmospheric Chemistry and Physics, 2019, 19, 9125-9152.	1.9	60
126	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. Atmospheric Chemistry and Physics, 2021, 21, 11201-11224.	1.9	60

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127	Intercomparison of Formaldehyde Measurements in Clean and Polluted Atmospheres. Journal of Atmospheric Chemistry, 2000, 37, 53-80.	1.4	59
128	Composition and properties of atmospheric particles in the eastern Atlantic and impacts on gas phase uptake rates. Atmospheric Chemistry and Physics, 2009, 9, 9299-9314.	1.9	58
129	Studies of propane flame soot acting as heterogeneous ice nuclei in conjunction with single particle soot photometer measurements. Atmospheric Chemistry and Physics, 2011, 11, 9549-9561.	1.9	58
130	Production of N₂O₅ and ClNO₂ in summer in urban Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 11581-11597.	1.9	57
131	The CLoudâ€“Aerosolâ€“Radiation Interaction and Forcing: YearÂ2017 (CLARIFY-2017) measurement campaign. Atmospheric Chemistry and Physics, 2021, 21, 1049-1084.	1.9	57
132	Volatile organic compound measurements at Trinidad Head, California, during ITCT 2K2: Analysis of sources, atmospheric composition, and aerosol residence times. Journal of Geophysical Research, 2004, 109, .	3.3	56
133	The characterisation of pollution aerosol in a changing photochemical environment. Atmospheric Chemistry and Physics, 2006, 6, 5573-5588.	1.9	55
134	First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l). Environmental Science & Technology, 2017, 51, 14072-14082.	4.6	55
135	Investigating organic aerosol loading in the remote marine environment. Atmospheric Chemistry and Physics, 2011, 11, 8847-8860.	1.9	54
136	The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. Bulletin of the American Meteorological Society, 2017, 98, 1857-1877.	1.7	52
137	Evaluation of groundâ€based black carbon measurements by filterâ€based photometers at two Arctic sites. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3544-3572.	1.2	51
138	Evidence of internal mixing of African dust and biomass burning particles by individual particle analysis using electron beam techniques. Journal of Geophysical Research, 2010, 115, .	3.3	50
139	Aerosol and traceâ€gas measurements in the Darwin area during the wet season. Journal of Geophysical Research, 2008, 113, .	3.3	49
140	The importance of Asia as a source of black carbon to the European Arctic during springtime 2013. Atmospheric Chemistry and Physics, 2015, 15, 11537-11555.	1.9	48
141	Chemical and physical characteristics of aerosol particles at a remote coastal location, Mace Head, Ireland, during NAMBLEX. Atmospheric Chemistry and Physics, 2006, 6, 3289-3301.	1.9	47
142	Modelling the partitioning of ammonium nitrate in the convective boundary layer. Atmospheric Chemistry and Physics, 2012, 12, 3005-3023.	1.9	47
143	Characterising Brazilian biomass burning emissions using WRF-Chem with MOSAIC sectional aerosol. Geoscientific Model Development, 2015, 8, 549-577.	1.3	47
144	Decrease in radiative forcing by organic aerosol nucleation, climate, and land use change. Nature Communications, 2019, 10, 423.	5.8	47

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145	Airborne observations of IEPOX-derived isoprene SOA in the Amazon during SAMBBA. Atmospheric Chemistry and Physics, 2014, 14, 11393-11407.	1.9	46
146	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques. Atmospheric Chemistry and Physics, 2014, 14, 12109-12132.	1.9	46
147	Investigating the annual behaviour of submicron secondary inorganic and organic aerosols in London. Atmospheric Chemistry and Physics, 2015, 15, 6351-6366.	1.9	46
148	Size-Related Physical Properties of Black Carbon in the Lower Atmosphere over Beijing and Europe. Environmental Science & Technology, 2019, 53, 11112-11121.	4.6	45
149	Intercomparison of nitrous acid (HONO) measurement techniques in a megacity (Beijing). Atmospheric Measurement Techniques, 2019, 12, 6449-6463.	1.2	44
150	The influence of small aerosol particles on the properties of water and ice clouds. Faraday Discussions, 2008, 137, 205-222.	1.6	43
151	Airborne measurements of trace gases and aerosols over the London metropolitan region. Atmospheric Chemistry and Physics, 2012, 12, 5163-5187.	1.9	43
152	Aged boreal biomass-burning aerosol size distributions from BORTAS 2011. Atmospheric Chemistry and Physics, 2015, 15, 1633-1646.	1.9	43
153	Observations of the nitrate radical in the free troposphere at IzaÃ±a de Tenerife. Journal of Geophysical Research, 1997, 102, 10613-10622.	3.3	42
154	Instrumentational operation and analytical methodology for the reconciliation of aerosol water uptake under sub- and supersaturated conditions. Atmospheric Measurement Techniques, 2010, 3, 1241-1254.	1.2	42
155	Radical chemistry at night: comparisons between observed and modelled HO_x, NO₃ and N₂O₅ during the RONOCO project. Atmospheric Chemistry and Physics, 2014, 14, 1299-1321.	1.9	42
156	A method for extracting calibrated volatility information from the FIGAERO-HR-ToF-CIMS and its experimental application. Atmospheric Measurement Techniques, 2019, 12, 1429-1439.	1.2	42
157	Aerosol fluxes and dynamics within and above a tropical rainforest in South-East Asia. Atmospheric Chemistry and Physics, 2010, 10, 9369-9382.	1.9	41
158	Evaluation of biomass burning aerosols in the HadGEM3 climate model with observations from the SAMBBA field campaign. Atmospheric Chemistry and Physics, 2016, 16, 14657-14685.	1.9	41
159	Observations of organic and inorganic chlorinated compounds and their contribution to chlorine radical concentrations in an urban environment in northern Europe during the wintertime. Atmospheric Chemistry and Physics, 2018, 18, 13481-13493.	1.9	41
160	Particle and VOC emission factor measurements for anthropogenic sources in West Africa. Atmospheric Chemistry and Physics, 2018, 18, 7691-7708.	1.9	41
161	Vertical and horizontal distribution of submicron aerosol chemical composition and physical characteristics across northern India during pre-monsoon and monsoon seasons. Atmospheric Chemistry and Physics, 2019, 19, 5615-5634.	1.9	41
162	Receptor modelling of fine particles in southern England using CMB including comparison with AMS-PMF factors. Atmospheric Chemistry and Physics, 2015, 15, 2139-2158.	1.9	40

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163	Ozone deposition to coastal waters. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 539-558.	1.0	39
164	Comment on â€œThe effects of molecular weight and thermal decomposition on the sensitivity of a thermal desorption aerosol mass spectrometerâ€• Aerosol Science and Technology, 2016, 50, i-xv.	1.5	39
165	Evaluation of the chemical composition of gas- and particle-phase products of aromatic oxidation. Atmospheric Chemistry and Physics, 2020, 20, 9783-9803.	1.9	39
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