

Hugh Coe

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

397
papers

25,042
citations

80
h-index

149
g-index

456
ext. papers

28,511
ext. citations

6.7
avg, IF

6.3
L-index

#	Paper	IF	Citations
397	Evolution of organic aerosols in the atmosphere. <i>Science</i> , 2009 , 326, 1525-9	33.3	2767
396	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenically-influenced Northern Hemisphere midlatitudes. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	1497
395	Chemical and microphysical characterization of ambient aerosols with the aerodyne aerosol mass spectrometer. <i>Mass Spectrometry Reviews</i> , 2007 , 26, 185-222	11	1443
394	A generalised method for the extraction of chemically resolved mass spectra from Aerodyne aerosol mass spectrometer data. <i>Journal of Aerosol Science</i> , 2004 , 35, 909-922	4.3	615
393	The effect of physical and chemical aerosol properties on warm cloud droplet activation. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2593-2649	6.8	571
392	Deconvolution and quantification of hydrocarbon-like and oxygenated organic aerosols based on aerosol mass spectrometry. <i>Environmental Science & Technology</i> , 2005 , 39, 4938-52	10.3	551
391	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12109-12136	6.8	349
390	Characterization of urban and rural organic particulate in the Lower Fraser Valley using two Aerodyne Aerosol Mass Spectrometers. <i>Atmospheric Environment</i> , 2004 , 38, 5745-5758	5.3	344
389	Quantitative sampling using an Aerodyne aerosol mass spectrometer 1. Techniques of data interpretation and error analysis. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		332
388	Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5781-90	11.5	314
387	Contributions from transport, solid fuel burning and cooking to primary organic aerosols in two UK cities. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 647-668	6.8	308
386	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7669-7686	6.8	287
385	Evolution of trace gases and particles emitted by a chaparral fire in California. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1397-1421	6.8	247
384	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 627-654	6.8	238
383	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7683-7693	6.8	231
382	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13061-13143	6.8	231
381	Inversion of tandem differential mobility analyser (TDMA) measurements. <i>Journal of Aerosol Science</i> , 2009 , 40, 134-151	4.3	221

380	Direct evidence for coastal iodine particles from Laminaria macroalgae linkage to emissions of molecular iodine. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 701-713	6.8	221
379	Secondary organic aerosols from anthropogenic and biogenic precursors. <i>Faraday Discussions</i> , 2005 , 130, 265-78; discussion 363-86, 519-24	3.6	218
378	Black-carbon absorption enhancement in the atmosphere determined by particle mixing state. <i>Nature Geoscience</i> , 2017 , 10, 184-188	18.3	212
377	A curved multi-component aerosol hygroscopicity model framework: Part 1 Inorganic compounds. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1205-1222	6.8	210
376	Aging of biomass burning aerosols over West Africa: Aircraft measurements of chemical composition, microphysical properties, and emission ratios. <i>Journal of Geophysical Research</i> , 2008 , 113,		209
375	Closure study between chemical composition and hygroscopic growth of aerosol particles during TORCH2. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 6131-6144	6.8	206
374	A mass spectrometric study of secondary organic aerosols formed from the photooxidation of anthropogenic and biogenic precursors in a reaction chamber. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5279-5293	6.8	202
373	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12673-12696	6.8	199
372	The role of VOC oxidation products in continental new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2657-2665	6.8	175
371	Hygroscopic growth and water uptake kinetics of two-phase aerosol particles consisting of ammonium sulfate, adipic and humic acid mixtures. <i>Journal of Aerosol Science</i> , 2007 , 38, 157-171	4.3	172
370	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4065-4083	6.8	162
369	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11807-11833	6.8	159
368	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10989-11010	6.8	158
367	Overview of the Dust and Biomass-burning Experiment and African Monsoon Multidisciplinary Analysis Special Observing Period-0. <i>Journal of Geophysical Research</i> , 2008 , 113,		154
366	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	153
365	Simulating regional scale secondary organic aerosol formation during the TORCH 2003 campaign in the southern UK. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 403-418	6.8	152
364	A curved multi-component aerosol hygroscopicity model framework: Part 2 Including organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1223-1242	6.8	148
363	Observations of iodine monoxide in the remote marine boundary layer. <i>Journal of Geophysical Research</i> , 2000 , 105, 14363-14369		142

362	Quantitative sampling using an Aerodyne aerosol mass spectrometer 2. Measurements of fine particulate chemical composition in two U.K. cities. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		139
361	Size and composition measurements of background aerosol and new particle growth in a Finnish forest during QUEST 2 using an Aerodyne Aerosol Mass Spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 315-327	6.8	138
360	The water-soluble organic component of size-segregated aerosol, cloud water and wet depositions from Jeju Island during ACE-Asia. <i>Atmospheric Environment</i> , 2005 , 39, 211-222	5.3	137
359	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1039-1050	6.8	136
358	Black carbon measurements in the boundary layer over western and northern Europe. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9393-9414	6.8	136
357	Seasonal variations of the physical and optical characteristics of Saharan dust: Results from the Dust Outflow and Deposition to the Ocean (DODO) experiment. <i>Journal of Geophysical Research</i> , 2008 , 113,		135
356	Strong constraints on aerosol-cloud interactions from volcanic eruptions. <i>Nature</i> , 2017 , 546, 485-491	50.4	133
355	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
354	Regional variability of the composition of mineral dust from western Africa: Results from the AMMA SOP0/DABEX and DODO field campaigns. <i>Journal of Geophysical Research</i> , 2008 , 113,		129
353	Size distribution, mixing state and source apportionment of black carbon aerosol in London during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10061-10084	6.8	127
352	Ambient black carbon particle hygroscopic properties controlled by mixing state and composition. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2015-2029	6.8	127
351	Single Particle Soot Photometer intercomparison at the AIDA chamber. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 3077-3097	4	125
350	Chemical composition of free tropospheric aerosol for PM1 and coarse mode at the high alpine site Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 407-423	6.8	125
349	Air quality and human health improvements from reductions in deforestation-related fire in Brazil. <i>Nature Geoscience</i> , 2015 , 8, 768-771	18.3	122
348	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 169-199	6.8	120
347	An aircraft case study of the spatial transition from closed to open mesoscale cellular convection over the Southeast Pacific. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2341-2370	6.8	117
346	Laboratory-generated primary marine aerosol via bubble-bursting and atomization. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 141-162	4	113
345	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From High-Resolution Aerosol Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 1132-1147	4.4	109

344	Simplification of the representation of the organic component of atmospheric particulates. <i>Faraday Discussions</i> , 2005 , 130, 341-62; discussion 363-86, 519-24	3.6	106
343	South East Pacific atmospheric composition and variability sampled along 20°S during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5237-5262	6.8	105
342	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
341	Atmospheric chemistry and physics in the atmosphere of a developed megacity (London): an overview of the REPARTEE experiment and its conclusions. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3065-3114	6.8	102
340	Impact of halogen monoxide chemistry upon boundary layer OH and HO ₂ concentrations at a coastal site. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	102
339	Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook's tour of mature and emerging technology. <i>Atmospheric Research</i> , 2011 , 102, 10-29	5.4	101
338	Real-time secondary aerosol formation during a fog event in London. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2459-2469	6.8	101
337	Measurements and modelling of I ₂ , IO, OIO, BrO and NO ₃ in the mid-latitude marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1513-1528	6.8	101
336	Chemical composition of summertime aerosol in the Po Valley (Italy), northern Adriatic and Black Sea. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 61-75	6.4	98
335	Marine cloud brightening. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 4217-62	3	97
334	Primary versus secondary contributions to particle number concentrations in the European boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12007-12036	6.8	95
333	Influences on the fraction of hydrophobic and hydrophilic black carbon in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5099-5112	6.8	94
332	Characterizing the aging of biomass burning organic aerosol by use of mixing ratios: a meta-analysis of four regions. <i>Environmental Science & Technology</i> , 2012 , 46, 13093-102	10.3	93
331	Consistency between parameterisations of aerosol hygroscopicity and CCN activity during the RHaMBLe discovery cruise. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3189-3203	6.8	92
330	Observations of the Nitrate Radical in the Marine Boundary Layer. <i>Journal of Atmospheric Chemistry</i> , 1999 , 33, 129-154	3.2	92
329	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8151-8171	6.8	91
328	New directions: Air pollution challenges for developing megacities like Delhi. <i>Atmospheric Environment</i> , 2015 , 122, 657-661	5.3	90
327	Single particle characterization of black carbon aerosols at a tropospheric alpine site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7389-7407	6.8	89

326	On the impacts of phytoplankton-derived organic matter on the properties of the primary marine aerosol [Part 2: Composition, hygroscopicity and cloud condensation activity. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2585-2602	6.8	88
325	On the impacts of phytoplankton-derived organic matter on the properties of the primary marine aerosol [Part 1: Source fluxes. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9295-9317	6.8	88
324	Simultaneous observations of nitrate and peroxy radicals in the marine boundary layer. <i>Journal of Geophysical Research</i> , 1997 , 102, 18917-18933		86
323	Remarkable dynamics of nanoparticles in the urban atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6623-6637	6.8	84
322	Hygroscopicity of the submicrometer aerosol at the high-alpine site Jungfraujoch, 3580 m a.s.l., Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5715-5729	6.8	84
321	The nitrate radical in the remote marine boundary layer. <i>Journal of Geophysical Research</i> , 2000 , 105, 24191-24204		84
320	Aerosol emissions from prescribed fires in the United States: A synthesis of laboratory and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,826-11,849	4.4	81
319	Observations of ice multiplication in a weakly convective cell embedded in supercooled mid-level stratus. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 257-273	6.8	81
318	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
317	Vertical distribution of sub-micron aerosol chemical composition from North-Western Europe and the North-East Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5389-5401	6.8	80
316	Chemical and aerosol characterisation of the troposphere over West Africa during the monsoon period as part of AMMA. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7575-7601	6.8	80
315	Ground-based aerosol characterization during the South American Biomass Burning Analysis (SAMBBA) field experiment. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12069-12083	6.8	77
314	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3687-3701	6.8	77
313	Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		77
312	Aerosol chemical characteristics from sampling conducted on the Island of Jeju, Korea during ACE Asia. <i>Atmospheric Environment</i> , 2004 , 38, 2111-2123	5.3	77
311	Investigating the links between ozone and organic aerosol chemistry in a biomass burning plume from a prescribed fire in California chaparral. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6667-6688	6.8	76
310	The mass and number size distributions of black carbon aerosol over Europe. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4917-4939	6.8	75
309	Secondary organic aerosol from biogenic VOCs over West Africa during AMMA. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3841-3850	6.8	74

308	Introduction to the special issue In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing) <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7519-7546	6.8	73
307	Black carbon aerosol mixing state, organic aerosols and aerosol optical properties over the United Kingdom. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9037-9052	6.8	73
306	Ice formation and development in aged, wintertime cumulus over the UK: observations and modelling. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4963-4985	6.8	73
305	Canopy scale measurements of stomatal and cuticular O ₃ uptake by sitka spruce. <i>Atmospheric Environment</i> , 1995 , 29, 1413-1423	5.3	70
304	Real time chemical characterization of local and regional nitrate aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3709-3720	6.8	69
303	A study of the effect of overshooting deep convection on the water content of the TTL and lower stratosphere from Cloud Resolving Model simulations. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4977-5002	6.8	68
302	Assessment of the sensitivity of core / shell parameters derived using the single-particle soot photometer to density and refractive index. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1701-1718	4	67
301	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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5638-5657	4.4	66
300	Ocean-Cloud-Atmosphere-Land Interactions in the Southeastern Pacific: The VOCALS Program. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 357-375	6.1	66
299	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1065-1082	6.8	66
298	The DACCIWA Project: Dynamics-Aerosol-Chemistry-Cloud Interactions in West Africa. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1451-1460	6.1	65
297	Size-dependent wet removal of black carbon in Canadian biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13755-13771	6.8	63
296	The effect of complex black carbon microphysics on the determination of the optical properties of brown carbon. <i>Geophysical Research Letters</i> , 2015 , 42, 613-619	4.9	62
295	Chemical composition observed over the mid-Atlantic and the detection of pollution signatures far from source regions. <i>Journal of Geophysical Research</i> , 2007 , 112,		61
294	Impacts of nonrefractory material on light absorption by aerosols emitted from biomass burning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,272-12,286	4.4	59
293	A modified hygroscopic tandem DMA and a data retrieval method based on optimal estimation. <i>Journal of Aerosol Science</i> , 2005 , 36, 846-865	4.3	58
292	Ozone photochemistry in boreal biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7321-7341	6.8	56
291	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11291-11309	6.8	54

290	Widening the gap between measurement and modelling of secondary organic aerosol properties?. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2577-2593	6.8	54
289	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2241-2272	6.8	54
288	Contrasting physical properties of black carbon in urban Beijing between winter and summer. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6749-6769	6.8	53
287	Online Chemical Characterization of Food-Cooking Organic Aerosols: Implications for Source Apportionment. <i>Environmental Science & Technology</i> , 2018 , 52, 5308-5318	10.3	53
286	The Dynamics of Aerosol-Chemistry-Cloud Interactions in West Africa Field Campaign: Overview and Research Highlights. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 83-104	6.1	53
285	Airborne observations of formic acid using a chemical ionization mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 3029-3039	4	53
284	Vertical characterization of aerosol optical properties and brown carbon in winter in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 165-179	6.8	52
283	Properties and evolution of biomass burning organic aerosol from Canadian boreal forest fires. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3077-3095	6.8	52
282	Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. <i>Journal of Geophysical Research</i> , 2006 , 111,		52
281	Characterization of black carbon-containing fine particles in Beijing during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 447-458	6.8	51
280	Influence of aerosol chemical composition on N ₂ O ₅ uptake: airborne regional measurements in northwestern Europe. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 973-990	6.8	51
279	Studies of propane flame soot acting as heterogeneous ice nuclei in conjunction with single particle soot photometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9549-9561	6.8	51
278	Composition and properties of atmospheric particles in the eastern Atlantic and impacts on gas phase uptake rates. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9299-9314	6.8	51
277	Coarse-mode mineral dust size distributions, composition and optical properties from AER-D aircraft measurements over the tropical eastern Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17225-17257	6.8	51
276	The characterisation of pollution aerosol in a changing photochemical environment. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5573-5588	6.8	49
275	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
274	Investigating organic aerosol loading in the remote marine environment. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8847-8860	6.8	47
273	Intercomparison of Formaldehyde Measurements in Clean and Polluted Atmospheres. <i>Journal of Atmospheric Chemistry</i> , 2000 , 37, 53-80	3.2	47

272	Impact of alternative fuels on emissions characteristics of a gas turbine engine - part 1: gaseous and particulate matter emissions. <i>Environmental Science & Technology</i> , 2012 , 46, 10805-11	10.3	45
271	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for London (ClearfLo) campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6453-6473	6.8	44
270	The importance of Asia as a source of black carbon to the European Arctic during springtime 2013. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11537-11555	6.8	44
269	An evaluation of global organic aerosol schemes using airborne observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2637-2665	6.8	44
268	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
267	Modelling the partitioning of ammonium nitrate in the convective boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3005-3023	6.8	43
266	Characterising Brazilian biomass burning emissions using WRF-Chem with MOSAIC sectional aerosol. <i>Geoscientific Model Development</i> , 2015 , 8, 549-577	6.3	42
265	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
264	Evidence of internal mixing of African dust and biomass burning particles by individual particle analysis using electron beam techniques. <i>Journal of Geophysical Research</i> , 2010 , 115,		41
263	First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l). <i>Environmental Science & Technology</i> , 2017 , 51, 14072-14082	10.3	40
262	The influence of small aerosol particles on the properties of water and ice clouds. <i>Faraday Discussions</i> , 2008 , 137, 205-22; discussion 297-318	3.6	40
261	Chemical and physical characteristics of aerosol particles at a remote coastal location, Mace Head, Ireland, during NAMBLEX. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3289-3301	6.8	40
260	Production of N ₂ O and ClNO ₂ in summer in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11581-11597	6.8	40
259	Airborne observations of IEPOX-derived isoprene SOA in the Amazon during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11393-11407	6.8	39
258	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12109-12132	6.8	39
257	Biomass burning aerosol over the Amazon: analysis of aircraft, surface and satellite observations using a global aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9125-9152	6.8	37
256	Investigating the annual behaviour of submicron secondary inorganic and organic aerosols in London. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6351-6366	6.8	37
255	Airborne measurements of trace gases and aerosols over the London metropolitan region. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5163-5187	6.8	37

254	Aerosol and trace-gas measurements in the Darwin area during the wet season. <i>Journal of Geophysical Research</i> , 2008 , 113,		37
253	Ozone deposition to coastal waters. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001 , 127, 539-558	6.4	37
252	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021 , 14, 77-84	18.3	37
251	Aerosol fluxes and dynamics within and above a tropical rainforest in South-East Asia. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9369-9382	6.8	36
250	Observations of the nitrate radical in the free troposphere at Izaña de Tenerife. <i>Journal of Geophysical Research</i> , 1997 , 102, 10613-10622		35
249	Aged boreal biomass-burning aerosol size distributions from BORTAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1633-1646	6.8	34
248	Comment on "The effects of molecular weight and thermal decomposition on the sensitivity of a thermal desorption aerosol mass spectrometer" <i>Aerosol Science and Technology</i> , 2016 , 50, i-xv	3.4	33
247	Instrumentational operation and analytical methodology for the reconciliation of aerosol water uptake under sub- and supersaturated conditions. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1241-1254	4.254	33
246	Radical chemistry at night: comparisons between observed and modelled HO _x , NO ₃ and N ₂ O ₅ during the RONOCO project. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1299-1321	6.8	32
245	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 3177-95	5.8	32
244	Oxidized nitrogen and ozone interaction with forests. I: Experimental observations and analysis of exchange with Douglas fir. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 1941-1955	6.4	32
243	SO ₂ oxidation in an entraining cloud model with explicit microphysics. <i>Atmospheric Environment Part A General Topics</i> , 1991 , 25, 2401-2418		32
242	Biogenic cloud nuclei in the central Amazon during the transition from wet to dry season. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9727-9743	6.8	31
241	Estimation of spatial apportionment of greenhouse gas emissions for the UK using boundary layer measurements and inverse modelling technique. <i>Atmospheric Environment</i> , 2011 , 45, 1042-1049	5.3	31
240	Carbonaceous aerosols contributed by traffic and solid fuel burning at a polluted rural site in Northwestern England. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1603-1619	6.8	31
239	Vertical and horizontal distribution of submicron aerosol chemical composition and physical characteristics across northern India during pre-monsoon and monsoon seasons. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 5615-5634	6.8	30
238	Aircraft and ground measurements of dust aerosols over the west African coast in summer 2015 during ICE-D and AER-D. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3817-3838	6.8	30
237	Particle and VOC emission factor measurements for anthropogenic sources in West Africa. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7691-7708	6.8	30

236	Size-resolved aerosol water uptake and cloud condensation nuclei measurements as measured above a Southeast Asian rainforest during OP3. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11157-11174	6.8	30
235	Source attribution of urban smog episodes caused by coal combustion. <i>Atmospheric Research</i> , 2008 , 88, 294-304	5.4	30
234	Evaluation of biomass burning aerosols in the HadGEM3 climate model with observations from the SAMBBA field campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14657-14685	6.8	29
233	Receptor modelling of fine particles in southern England using CMB including comparison with AMS-PMF factors. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2139-2158	6.8	29
232	Prediction of visibility and aerosol within the operational Met Office Unified Model. II: Validation of model performance using observational data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008 , 134, 1817-1832	6.4	29
231	Intercomparison of nitrous acid (HONO) measurement techniques in a megacity (Beijing). <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 6449-6463	4	29
230	Source attribution of Bornean air masses by back trajectory analysis during the OP3 project. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9605-9630	6.8	28
229	Aerosol Direct Radiative Impact Experiment (ADRIEX) overview. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 3-15	6.4	28
228	Numerical simulations of aerosol radiative effects and their impact on clouds and atmospheric dynamics over southern West Africa. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9767-9788	6.8	28
227	Decrease in radiative forcing by organic aerosol nucleation, climate, and land use change. <i>Nature Communications</i> , 2019 , 10, 423	17.4	27
226	Influence of particle chemical composition on the phase of cold clouds at a high-alpine site in Switzerland. <i>Journal of Geophysical Research</i> , 2009 , 114,		27
225	Evidence for large average concentrations of the nitrate radical (NO ₃) in Western Europe from the HANSA hydrocarbon database. <i>Atmospheric Environment</i> , 2007 , 41, 3465-3478	5.3	27
224	Chemical and physical processes controlling the distribution of aerosols in the Lower Fraser Valley, Canada, during the Pacific 2001 field campaign. <i>Atmospheric Environment</i> , 2004 , 38, 5759-5774	5.3	27
223	Aerosol Development and Interaction in an Urban Plume. <i>Aerosol Science and Technology</i> , 2000 , 32, 120-126	5.4	27
222	Measurements and modelling of cloudwater deposition to moorland and forests. <i>Environmental Pollution</i> , 1992 , 75, 97-107	9.3	27
221	Organic aerosol emission ratios from the laboratory combustion of biomass fuels. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,850-12,871	4.4	26
220	WRF-Chem model predictions of the regional impacts of N ₂ O ₅ heterogeneous processes on night-time chemistry over north-western Europe. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1385-1409	6.8	26
219	Physical and chemical processes of air masses in the Aegean Sea during Etesians: Aegean-GAME airborne campaign. <i>Science of the Total Environment</i> , 2015 , 506-507, 201-16	10.2	26

218	Wintertime aerosol chemical composition, volatility, and spatial variability in the greater London area. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1139-1160	6.8	25
217	Model simulations of cooking organic aerosol (COA) over the UK using estimates of emissions based on measurements at two sites in London. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13773-13789	6.8	25
216	Investigating a two-component model of solid fuel organic aerosol in London: processes, PM ₁₀ contributions, and seasonality. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2429-2443	6.8	25
215	Chemical composition and hygroscopic properties of aerosol particles over the Aegean Sea. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11595-11608	6.8	25
214	Boundary layer structure and decoupling from synoptic scale flow during NAMBLEX. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 433-445	6.8	25
213	Atmospheric composition in the Eastern Mediterranean: Influence of biomass burning during summertime using the WRF-Chem model. <i>Atmospheric Environment</i> , 2016 , 132, 317-331	5.3	24
212	Size-Related Physical Properties of Black Carbon in the Lower Atmosphere over Beijing and Europe. <i>Environmental Science & Technology</i> , 2019 , 53, 11112-11121	10.3	24
211	Tropospheric aerosols over West Africa: highlights from the AMMA international program. <i>Atmospheric Science Letters</i> , 2011 , 12, 19-23	2.4	24
210	Foot-and-mouth disease - quantification and size distribution of airborne particles emitted by healthy and infected pigs. <i>Veterinary Journal</i> , 2007 , 174, 42-53	2.5	24
209	Technical Note: Description and Use of the New Jump Mass Spectrum Mode of Operation for the Aerodyne Quadrupole Aerosol Mass Spectrometers (Q-AMS). <i>Aerosol Science and Technology</i> , 2007 , 41, 865-872	3.4	24
208	Observations of NO ₃ concentration profiles in the troposphere. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 11-1-ACH 11-14		23
207	Simultaneous aerosol mass spectrometry and chemical ionisation mass spectrometry measurements during a biomass burning event in the UK: insights into nitrate chemistry. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4093-4111	6.8	22
206	Using NO _x and CO monitoring data to indicate fine aerosol number concentrations and emission factors in three UK conurbations. <i>Atmospheric Environment</i> , 2005 , 39, 5157-5169	5.3	22
205	Non-deforestation drivers of fires are increasingly important sources of aerosol and carbon dioxide emissions across Amazonia. <i>Scientific Reports</i> , 2019 , 9, 16975	4.9	22
204	The CLoud Aerosol Radiation Interaction and Forcing: Year 2017 (CLARIFY-2017) measurement campaign. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1049-1084	6.8	22
203	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO _x in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2125-2147	6.8	22
202	Observations of Isocyanate, Amide, Nitrate, and Nitro Compounds From an Anthropogenic Biomass Burning Event Using a ToF-CIMS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7687	4.4	21
201	Organic aerosol source apportionment in London 2013 with ME-2: exploring the solution space with annual and seasonal analysis. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15545-15559	6.8	21

200	Impact of alternative fuels on emissions characteristics of a gas turbine engine - part 2: volatile and semivolatile particulate matter emissions. <i>Environmental Science & Technology</i> , 2012 , 46, 10812-9	10.3	21
199	Aerosol scattering and absorption during the EUCAARI-LONGREX flights of the Facility for Airborne Atmospheric Measurements (FAAM) BAe-146: can measurements and models agree?. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7251-7267	6.8	21
198	A method for extracting calibrated volatility information from the FIGAERO-HR-ToF-CIMS and its experimental application. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1429-1439	4	20
197	Assessing the role of anthropogenic and biogenic sources on PM _{2.5} over southern West Africa using aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 757-772	6.8	20
196	Estimated contributions of primary and secondary organic aerosol from fossil fuel combustion during the CalNex and Cal-Mex campaigns. <i>Atmospheric Environment</i> , 2014 , 88, 330-340	5.3	20
195	The Weybourne Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , 1999 , 33, 107-110	3.2	20
194	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget		19
193	Remote biomass burning dominates southern West African air pollution during the monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 15217-15234	6.8	19
192	Observations of organic and inorganic chlorinated compounds and their contribution to chlorine radical concentrations in an urban environment in northern Europe during the wintertime. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13481-13493	6.8	19
191	Strong anthropogenic control of secondary organic aerosol formation from isoprene in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7531-7552	6.8	18
190	Evaluating the influence of laser wavelength and detection stage geometry on optical detection efficiency in a single-particle mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 6051-6068	4	17
189	Influence of vessel characteristics and atmospheric processes on the gas and particle phase of ship emission plumes: in situ measurements in the Mediterranean Sea and around the Arabian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4713-4734	6.8	17
188	Seasonal variation of fine particulate composition in the centre of a UK city. <i>Atmospheric Environment</i> , 2011 , 45, 4379-4389	5.3	17
187	Behavior of ultrafine particles in continental and marine air masses at a rural site in the United Kingdom. <i>Journal of Geophysical Research</i> , 2000 , 105, 26891-26905		17
186	Evaluation of the chemical composition of gas- and particle-phase products of aromatic oxidation. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9783-9803	6.8	17
185	The vertical distribution of biomass burning pollution over tropical South America from aircraft in situ measurements during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 5771-5790	6.8	16
184	Transformation and ageing of biomass burning carbonaceous aerosol over tropical South America from aircraft in situ measurements during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5309-5326	6.8	16
183	A comparison between trajectory ensemble and adiabatic parcel modeled cloud properties and evaluation against airborne measurements. <i>Journal of Geophysical Research</i> , 2009 , 114,		16

182	Vertical variability of the properties of highly aged biomass burning aerosol transported over the southeast Atlantic during CLARIFY-2017. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12697-12719	6.8	16
181	Fine-mode organic mass concentrations and sources in the Amazonian wet season (AMAZE-08)		16
180	The effect of physical and chemical aerosol properties on warm cloud droplet activation		16
179	The radiative impact of out-of-cloud aerosol hygroscopic growth during the summer monsoon in southern West Africa. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1505-1520	6.8	15
178	Seasonal contrast in size distributions and mixing state of black carbon and its association with PM _{1.0} ; chemical composition from the eastern coast of India. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3965-3985	6.8	15
177	In situ constraints on the vertical distribution of global aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11765-11790	6.8	15
176	A case study of aerosol scavenging in a biomass burning plume over eastern Canada during the 2011 BORTAS field experiment. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8449-8460	6.8	15
175	Aerosol observations and growth rates downwind of the anvil of a deep tropical thunderstorm. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6157-6172	6.8	15
174	Aircraft Particle Inlets: State-of-the-Art and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 89-92	6.1	15
173	Absorption closure in highly aged biomass burning smoke. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11201-11221	6.8	15
172	Aerosol liquid water content in the moist southern West African monsoon layer and its radiative impact. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14271-14295	6.8	15
171	Characterising mass-resolved mixing state of black carbon in Beijing using a morphology-independent measurement method. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3645-3661	6.8	14
170	Highly controlled, reproducible measurements of aerosol emissions from combustion of a common African biofuel source. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 385-403	6.8	14
169	Near-field emission profiling of tropical forest and Cerrado fires in Brazil during SAMBBA 2012. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5619-5638	6.8	14
168	An overview of the HIBISCUS campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2309-2339	6.8	14
167	Correction to Quantitative sampling using an Aerodyne aerosol mass spectrometer: 1. Techniques of data interpretation and error analysis <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		14
166	Measurements of Dry Deposition of NO ₂ to A Dutch Heathland Using the Eddy-Correlation Technique. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1992 , 118, 767-786	6.4	14
165	Mixing State of Carbonaceous Aerosols of Primary Emissions from "Improved" African Cookstoves. <i>Environmental Science & Technology</i> , 2018 , 52, 10134-10143	10.3	13

164	Gravity-wave-induced perturbations in marine stratocumulus. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 32-45	6.4	13
163	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1777-1803	4.4	13
162	The Influence of Algal Exudate on the Hygroscopicity of Sea Spray Particles. <i>Advances in Meteorology</i> , 2010 , 2010, 1-11	1.7	13
161	A methodology for in-situ and remote sensing of microphysical and radiative properties of contrails as they evolve into cirrus. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8157-8175	6.8	13
160	Online differentiation of mineral phase in aerosol particles by ion formation mechanism using a μ LAAP-TOF single-particle mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 195-213 ⁴		13
159	Aerosol influences on low-level clouds in the West African monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8503-8522	6.8	12
158	Aerosol chemistry above an extended archipelago of the eastern Mediterranean basin during strong northern winds. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8401-8421	6.8	12
157	Inadequacy of Optical Smoke Measurements for Characterization of Nonlight Absorbing Particulate Matter Emissions from Gas Turbine Engines. <i>Combustion Science and Technology</i> , 2012 , 184, 2068-2083	1.5	12
156	Linking biogenic hydrocarbons to biogenic aerosol in the Borneo rainforest. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11295-11305	6.8	12
155	Influence of boundary layer dynamics and isoprene chemistry on the organic aerosol budget in a tropical forest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9351-9366	4.4	12
154	The composition and variability of atmospheric aerosol over Southeast Asia during 2008. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1083-1100	6.8	12
153	Airborne observations of aerosol microphysical properties and particle ageing processes in the troposphere above Europe. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11533-11554	6.8	12
152	A comparison of aerosol optical and chemical properties over the Adriatic and Black Seas during summer 2004: Two case-studies from ADRIEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 33-45	6.4	12
151	Pollutant Emissions from Improved Cookstoves of the Type Used in Sub-Saharan Africa. <i>Combustion Science and Technology</i> , 2020 , 192, 1582-1602	1.5	12
150	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11201-11224	6.8	12
149	Black carbon physical and optical properties across northern India during pre-monsoon and monsoon seasons. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 13079-13096	6.8	11
148	Ozone Dry Deposition Velocities for Coastal Waters. <i>Water, Air and Soil Pollution</i> , 2001 , 1, 233-242		11
147	Oxygenated products formed from OH-initiated reactions of trimethylbenzene: autoxidation and accretion. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9563-9579	6.8	11

146	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales		11
145	Large air quality and human health impacts due to Amazon forest and vegetation fires. <i>Environmental Research Communications</i> , 2020 , 2, 095001	3.1	11
144	Development of ice particles in convective clouds observed over the Black Forest mountains during COPS. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 275-286	6.4	10
143	Investigating the annual behaviour of submicron secondary inorganic and organic aerosols in London		10
142	Characterization of a real-time tracer for Isoprene Epoxydiols-derived Secondary Organic Aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements		10
141	Flow rate and source reservoir identification from airborne chemical sampling of the uncontrolled Elgin platform gas release. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1725-1739	4	10
140	Mineralogy and mixing state of north African mineral dust by online single-particle mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2259-2281	6.8	9
139	Modelling the effects of gravity waves on stratocumulus clouds observed during VOCALS-UK. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7133-7152	6.8	9
138	The lofting of Western Pacific regional aerosol by island thermodynamics as observed around Borneo. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5963-5983	6.8	9
137	Retrieval of vertical profiles of NO ₃ from zenith sky measurements using an optimal estimation method. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 10-1-ACH 10-14		9
136	Robust observational constraint of uncertain aerosol processes and emissions in a climate model and the effect on aerosol radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9491-9524	6.8	9
135	Key Role of NO Radicals in the Production of Isoprene Nitrates and Nitrooxyorganosulfates in Beijing. <i>Environmental Science & Technology</i> , 2021 , 55, 842-853	10.3	9
134	The role of droplet sedimentation in the evolution of low-level clouds over southern West Africa. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14253-14269	6.8	9
133	A study on the sensitivities of simulated aerosol optical properties to composition and size distribution using airborne measurements. <i>Atmospheric Environment</i> , 2014 , 89, 517-524	5.3	8
132	Validation of LIRIC aerosol concentration retrievals using airborne measurements during a biomass burning episode over Athens. <i>Atmospheric Research</i> , 2017 , 183, 255-267	5.4	8
131	Single Particle Soot Photometer intercomparison at the AIDA chamber 2012 ,		8
130	Chemical and aerosol characterisation of the troposphere over West Africa during the monsoon period as part of AMMA		8
129	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber		8

128	Assessment of the sensitivity of core/shell parameters derived using the single-particle soot photometer to density and refractive index		8
127	Investigation of Turbulence Parametrization Schemes with Reference to the Atmospheric Boundary Layer Over the Aegean Sea During Etesian Winds. <i>Boundary-Layer Meteorology</i> , 2017 , 164, 303-329	3-4	7
126	Profiling aerosol optical, microphysical and hygroscopic properties in ambient conditions by combining in situ and remote sensing. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 83-107	4	7
125	The effect of structure and isomerism on the vapor pressures of organic molecules and its potential atmospheric relevance. <i>Aerosol Science and Technology</i> , 2019 , 53, 1040-1055	3-4	7
124	In situ aerosol measurements taken during the 2007 COPS field campaign at the Hornisgrinde ground site. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 252-266	6.4	7
123	Modelling of chemical and physical aerosol properties during the ADRIEX aerosol campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009 , 135, 53-66	6.4	7
122	Atmospheric science. Aerosol chemistry and the Deepwater Horizon spill. <i>Science</i> , 2011 , 331, 1273-4	33.3	7
121	Intercomparison of VACC- and AMS-derived nitrate, sulphate and ammonium aerosol loadings during ADRIEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 77-84	6.4	7
120	A model of occult deposition applicable to complex terrain. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1991 , 117, 803-823	6.4	7
119	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon		7
118	Studies of aerosol at a coastal site using two aerosol mass spectrometry instruments and identification of biogenic particle types		7
117	Characterizing the Particle Composition and Cloud Condensation Nuclei from Shipping Emission in Western Europe. <i>Environmental Science & Technology</i> , 2020 , 54, 15604-15612	10.3	7
116	Rapid transformation of ambient absorbing aerosols from West African biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9417-9440	6.8	7
115	Modelling carbonaceous aerosol from residential solid fuel burning with different assumptions for emissions. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4497-4518	6.8	6
114	A Large Source of Atomic Chlorine From ClNO ₂ Photolysis at a U.K. Landfill Site. <i>Geophysical Research Letters</i> , 2019 , 46, 8508-8516	4.9	6
113	Vertical variability of the properties of highly aged biomass burning aerosol transported over the southeast Atlantic during CLARIFY-2017		6
112	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model		6
111	Size-dependent wet removal of black carbon in Canadian biomass burning plumes		6

110	Contributions from transport, solid fuel burning and cooking to primary organic aerosols in two UK cities		6
109	CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations		6
108	Investigating Carbonaceous Aerosol and Its Absorption Properties From Fires in the Western United States (WE-CAN) and Southern Africa (ORACLES and CLARIFY). <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034984	4.4	6
107	Low-NO atmospheric oxidation pathways in a polluted megacity. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1613-1625	6.8	6
106	Transformation and aging of biomass burning carbonaceous aerosol over tropical South America from aircraft in-situ measurements during SAMBBA 2019 ,		5
105	Vertical profiles of submicron aerosol single scattering albedo over the Indian region immediately before monsoon onset and during its development: research from the SWAAMI field campaign. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4031-4046	6.8	5
104	Airborne observations of formic acid using a chemical ionisation mass spectrometer 2011 ,		5
103	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools"; published in <i>Atmos. Chem. Phys.</i> , 10, 1691-1699, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 563-563	6.8	5
102	Airborne measurements of fire emission factors for African biomass burning sampled during the MOYA campaign. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15443-15459	6.8	5
101	Evolution of trace gases and particles emitted by a chaparral fire in California		5
100	Southeast Pacific atmospheric composition and variability sampled along 20°S during VOCALS-REx		5
99	Size distribution, mixing state and source apportionments of black carbon aerosols in London during winter time		5
98	Hygroscopicity of the submicrometer aerosol at the high-alpine site Jungfraujoch, 3580 m a.s.l., Switzerland		5
97	An evaluation of global organic aerosol schemes using airborne observations 2019 ,		4
96	Simultaneous Aerosol Mass Spectrometry and Chemical Ionisation Mass Spectrometry measurements during a biomass burning event in the UK: Insights into nitrate chemistry 2017 ,		4
95	The roles of volatile organic compound deposition and oxidation mechanisms in determining secondary organic aerosol production: a global perspective using the UKCA chemistry-climate model (vn8.4). <i>Geoscientific Model Development</i> , 2019 , 12, 2539-2569	6.3	4
94	Overview of the South American biomass burning analysis (SAMBBA) field experiment 2013 ,		4
93	Correction to "Aerosol and trace-gas measurements in the Darwin area during the wet season" <i>Journal of Geophysical Research</i> , 2008 , 113,		4

92	Mass Spectrometric Methods for Aerosol Composition Measurements	267-310		4
91	Using a coupled large-eddy simulation–aerosol radiation model to investigate urban haze: sensitivity to aerosol loading and meteorological conditions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11893-11906		6.8	4
90	Rainforest-like Atmospheric Chemistry in a Polluted Megacity			4
89	Overview: The CLoud-Aerosol-Radiation Interaction and Forcing: Year-2017 (CLARIFY-2017) measurement campaign			4
88	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe			4
87	Scattering and absorption by aerosols during EUCAARI-LONGREX: can airborne measurements and models agree?			4
86	Size-resolved aerosol water uptake and cloud condensation nuclei measurements as measured above a Southeast Asian rainforest during OP3			4
85	The size distribution and mixing state of black carbon aerosol over Europe			4
84	Ozone photochemistry in boreal biomass burning plumes			4
83	Closure between measured and modelled particle hygroscopic growth during TORCH2 implies ammonium nitrate artefact in the HTDMA measurements			4
82	Chemical composition of free tropospheric aerosol for PM1 and coarse mode at the high alpine site Jungfraujoch			4
81	Consistency between parameterisations of aerosol hygroscopicity and CCN activity during the RHaMBLe Discovery cruise			4
80	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction			4
79	Physical and Chemical Processes of Polluted Air Masses During Etesians: Aegean-Game Airborne Campaign – An Outline. <i>Springer Atmospheric Sciences</i> , 2013 , 1239-1244		0.7	4
78	Chemical characterisation of benzene oxidation products under high- and low-NO _x conditions using chemical ionisation mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3473-3490		6.8	4
77	Evaluation of biomass burning aerosols in the HadGEM3 climate model with observations from the SAMBBA field campaign 2016 ,			4
76	Remote biomass burning dominates southern West African air pollution during the monsoon 2019 ,			3
75	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO _x in Beijing			3

74	Black carbon measurements in the boundary layer over western and northern Europe		3
73	Evidence for a significant proportion of Secondary Organic Aerosol from isoprene above a maritime tropical forest		3
72	The composition and variability of atmospheric aerosol over Southeast Asia during 2008		3
71	Radical chemistry at night: comparisons between observed and modelled HO _x , NO ₃ and N ₂ O ₅ ; during the RONOCO project		3
70	Influence of aerosol chemical composition on N ₂ O ₅ uptake: airborne regional measurements in North-Western Europe		3
69	Investigating the two-component model of solid fuel organic aerosol in London: processes, PM ₁ contributions, and seasonality		3
68	Properties and evolution of biomass burning organic aerosol from Canadian boreal forest fires		3
67	A case study of aerosol depletion in a biomass burning plume over Eastern Canada during the 2011 BORTAS field experiment		3
66	Simulating regional scale secondary organic aerosol formation during the TORCH 2003 campaign in the southern UK		3
65	The role of VOC oxidation products in continental new particle formation		3
64	Instrumentational operation and analytical methodology for the reconciliation of aerosol water uptake under sub- and supersaturated conditions		3
63	Composition and properties of atmospheric particles in the eastern Atlantic and impacts on gas phase uptake rates		3
62	Measurement report: Altitudinal variation of cloud condensation nuclei activation across the Indo-Gangetic Plain prior to monsoon onset and during peak monsoon periods: results from the SWAAMI field campaign. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 8979-8997	6.8	3
61	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for London (ClearfLo) campaign 2016 ,		3
60	Direct measurements of black carbon fluxes in central Beijing using the eddy covariance method. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 147-162	6.8	3
59	Using highly time-resolved online mass spectrometry to examine biogenic and anthropogenic contributions to organic aerosol in Beijing. <i>Faraday Discussions</i> , 2021 , 226, 382-408	3.6	3
58	Introduction to Special Issue In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing) 2018 ,		3
57	Impacts of Hydroperoxymethyl Thioformate on the Global Marine Sulfur Budget. <i>ACS Earth and Space Chemistry</i> ,	3.2	3

56	Near-field emission profiling of Rainforest and Cerrado fires in Brazil during SAMBBA 2012 2017 ,		2
55	Ozone deposition to coastal waters 2001 , 127, 539		2
54	Physical and chemical properties of black carbon and organic matter from different combustion and photochemical sources using aerodynamic aerosol classification. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16161-16182	6.8	2
53	Oligomer and highly oxygenated organic molecule formation from oxidation of oxygenated monoterpenes emitted by California sage plants. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10953-10965	6.8	2
52	Aerosol fluxes and dynamics within and above a tropical rainforest in South-East Asia		2
51	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign		2
50	Single particle characterization of black carbon aerosols at a tropospheric alpine site in Switzerland		2
49	Investigating organic aerosol loading in the remote marine environment		2
48	Source attribution of Bornean air masses by back trajectory analysis during the OP3 project		2
47	Ice formation and development in aged, wintertime cumulus over the UK : observations and modelling		2
46	The lofting of Western Pacific regional aerosol by island thermodynamics as observed around Borneo		2
45	Ambient black carbon particle hygroscopic properties controlled by mixing state and composition		2
44	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions		2
43	WRF-chem model predictions of the regional impacts of N ₂ O ₅ ; heterogeneous processes on nighttime chemistry over north-western Europe		2
42	Aged boreal biomass burning aerosol size distributions from BORTAS 2011		2
41	Receptor modelling of fine particles in Southern England using CMB including comparison with AMS-PMF factors		2
40	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques		2
39	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter		2

38	The characterisation of pollution aerosol in a changing photochemical environment		2
37	Chemical and physical characteristics of aerosol particles at a remote coastal location, Mace Head, Ireland, during NAMBLEX		2
36	Ground based aerosol characterization during the South American Biomass Burning Analysis (SAMBBA) field experiment		2
35	Airborne observations of IEPOX-derived isoprene SOA in the Amazon during SAMBBA		2
34	Mixing state of refractory black carbon aerosol in the South Asian outflow over the northern Indian Ocean during winter. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9173-9199	6.8	2
33	Technical note: A new approach to discriminate different black carbon sources by utilising fullerene and metals in positive matrix factorisation analysis of high-resolution soot particle aerosol mass spectrometer data. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10763-10777	6.8	2
32	Using a coupled LES aerosol-radiation model to investigate the importance of aerosol-boundary layer feedback in a Beijing haze episode. <i>Faraday Discussions</i> , 2021 , 226, 173-190	3.6	2
31	Contrasting physical properties of black carbon in urban Beijing between winter and summer 2018 ,		2
30	Biomass burning aerosol over the Amazon: analysis of aircraft, surface and satellite observations using a global aerosol model 2018 ,		2
29	Quantification of ash sedimentation dynamics through depolarisation imaging with AshCam. <i>Scientific Reports</i> , 2018 , 8, 15680	4.9	2
28	PM _{2.5} composition and source apportionment at two sites in Delhi, India, across multiple seasons. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11655-11667	6.8	2
27	In Situ Measurements of Aerosol Particles 157-223		2
26	Seasonal contrast in size distributions and mixing state of black carbon and its association with PM _{1.0} chemical composition from the eastern coast of India 2019 ,		1
25	Aerosol influences on low-level clouds in the West African monsoon 2019 ,		1
24	Derivation and validation of photolysis rates of O ₃ , NO ₂ , and CH ₂ O from a GUV-541 radiometer. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		1
23	Studies of propane flame soot acting as heterogeneous ice nuclei in conjunction with single particle soot photometer measurements		1
22	Chemical composition and hygroscopic properties of aerosol particles over the Aegean Sea		1
21	Total Observed Organic Carbon (TOOC): A synthesis of North American observations		1

20	Real-time observation of secondary aerosol formation during a fog event in London		1
19	Secondary Organic Aerosol from biogenic VOCs over West Africa during AMMA		1
18	Chemical Characterization and Source Apportionment of Organic Aerosols in the Coastal City of Chennai, India: Impact of Marine Air Masses on Aerosol Chemical Composition and Potential for Secondary Organic Aerosol Formation. <i>ACS Earth and Space Chemistry</i> ,	3.2	1
17	Laboratory-generated primary marine aerosol via bubble-bursting and atomization		1
16	Influences on the fraction of hydrophobic and hydrophilic black carbon in the atmosphere		1
15	Black carbon aerosol mixing state, organic aerosols and aerosol optical properties over the UK		1
14	Atmospheric chemistry and physics in the atmosphere of a developed megacity (London): an overview of the REPARTEE experiment and its conclusions		1
13	The vertical distribution of biomass burning pollution over tropical South America from aircraft in situ measurements during SAMBBA 2018,		1
12	Coarse mode mineral dust size distributions, composition and optical properties from AER-D aircraft measurements over the Tropical Eastern Atlantic 2018,		1
11	Characterization of black carbon-containing fine particles in Beijing during wintertime 2018,		1
10	Closure Between Chemical Composition and Hygroscopic Growth of Aerosol Particles During TORCH2 2007, 731-735		1
9	The effect of BC on aerosol boundary layer feedback: potential implications for urban pollution episodes. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2937-2953	6.8	1
8	Planetary Boundary Layer Height Modulates Aerosol-Water Vapor Interactions During Winter in the Megacity of Delhi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035681	4.4	0
7	Characterizing the performance of a POPS miniaturized optical particle counter when operated on a quadcopter drone. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6101-6118	4	0
6	Examining chemical composition of gas turbine-emitted organic aerosol using positive matrix factorisation (PMF). <i>Journal of Aerosol Science</i> , 2022, 159, 105869	4.3	0
5	A Four Carbon Organonitrate as a Significant Product of Secondary Isoprene Chemistry. <i>Geophysical Research Letters</i> , 2022, 49,	4.9	0
4	Atmospheric Energy and the Structure of the Atmosphere 35-58		
3	Quantifying bioaerosol concentrations in dust clouds through online UV-LIF and mass spectrometry measurements at the Cape Verde Atmospheric Observatory. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14473-14490	6.8	

2 Ozone Dry Deposition Velocities for Coastal Waters **2001**, 233-242

1 Characterizing Black Carbon and Gaseous Pollutants on the Yangtze River Across Eastern China Continent. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033488

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