K N Bower

List of Publications by Year in Descending Order

170 papers	11,282 citations	45 h-index	104 g-index
217 ext. papers	12,693 ext. citations	5.9 avg, IF	5.07 L-index

#	Paper	IF	Citations
170	Multi-thermals and high concentrations of secondary ice: a modelling study of convective clouds during the Ice in Clouds Experiment Dust (ICE-D) campaign. *Atmospheric Chemistry and Physics*, **2022**, 22, 1649-1667	6.8	
169	Isotopic signatures of methane emissions from tropical fires, agriculture and wetlands: the MOYA and ZWAMPS flights. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2022**, 380, 20210112	3	1
168	C methane source signatures from tropical wetland and rice field emissions. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2022**, 380, 20200449	3	3
167	Airborne quantification of net methane and carbon dioxide fluxes from European Arctic wetlands in Summer 2019. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2022**, 380, 20210192	3	1
166	Observation of absorbing aerosols above clouds over the south-east Atlantic Ocean from the geostationary satellite SEVIRI Part 2: Comparison with MODIS and aircraft measurements from the CLARIFY-2017 field campaign. *Atmospheric Chemistry and Physics*, **2021**, 21, 3235-3254	6.8	5
165	The CLoud Aerosol Radiation Interaction and Forcing: Year 2017 (CLARIFY-2017) measurement campaign. *Atmospheric Chemistry and Physics*, **2021**, 21, 1049-1084	6.8	22
164	Characterising optical array particle imaging probes: implications for small-ice-crystal observations. *Atmospheric Measurement Techniques*, **2021**, 14, 1917-1939	4	5
163	EUREC⁴A. *Earth System Science Data*, **2021**, 13, 4067-4119	10.5	26
162	Small ice particles at slightly supercooled temperatures in tropical maritime convection. *Atmospheric Chemistry and Physics*, **2020**, 20, 3895-3904	6.8	8
161	Open cells exhibit weaker entrainment of free-tropospheric biomass burning aerosol into the south-east Atlantic boundary layer. *Atmospheric Chemistry and Physics*, **2020**, 20, 4059-4084	6.8	10
160	Development of aerosol activation in the double-moment Unified Model and evaluation with CLARIFY measurements. *Atmospheric Chemistry and Physics*, **2020**, 20, 10997-11024	6.8	2
159	Absorption closure in highly aged biomass burning smoke. *Atmospheric Chemistry and Physics*, **2020**, 20, 11201-11221	6.8	15
158	A test of the ability of current bulk optical models to represent the radiative properties of cirrus cloud across the mid- and far-infrared. *Atmospheric Chemistry and Physics*, **2020**, 20, 12889-12903	6.8	3
157	Airborne measurements of fire emission factors for African biomass burning sampled during the MOYA campaign. *Atmospheric Chemistry and Physics*, **2020**, 20, 15443-15459	6.8	5
156	Characterizing the Particle Composition and Cloud Condensation Nuclei from Shipping Emission in Western Europe. *Environmental Science & Technology*, **2020**, 54, 15604-15612	10.3	7
155	Aerosol influences on low-level clouds in the West African monsoon **2019**,		1
154	Airborne validation of radiative transfer modelling of ice clouds at millimetre and sub-millimetre wavelengths. *Atmospheric Measurement Techniques*, **2019**, 12, 1599-1617	4	14

153	Radiative Effects of Secondary Ice Enhancement in Coastal Antarctic Clouds. *Geophysical Research Letters*, **2019**, 46, 2312-2321	4.9	15
152	Aerosol influences on low-level clouds in the West African monsoon. *Atmospheric Chemistry and Physics*, **2019**, 19, 8503-8522	6.8	12
151	The DynamicsAerosolChemistryCloud Interactions in West Africa Field Campaign: Overview and Research Highlights. *Bulletin of the American Meteorological Society*, **2018**, 99, 83-104	6.1	53
150	Aircraft and ground measurements of dust aerosols over the west African coast in summer 2015 during ICE-D and AER-D. *Atmospheric Chemistry and Physics*, **2018**, 18, 3817-3838	6.8	30
149	Atmospheric Ice-Nucleating Particles in the Dusty Tropical Atlantic. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 2175-2193	4.4	47
148	In situ measurements of cloud microphysical and aerosol properties during the break-up of stratocumulus cloud layers in cold air outbreaks over the North Atlantic. *Atmospheric Chemistry and Physics*, **2018**, 18, 17191-17206	6.8	5
147	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	6.8	51
146	Summertime Arctic Aircraft Measurements during ACCACIA **2018**,		1
145	Numerical simulations of aerosol radiative effects and their impact on clouds and atmospheric dynamics over southern West Africa. *Atmospheric Chemistry and Physics*, **2018**, 18, 9767-9788	6.8	28
144	Coarse mode mineral dust size distributions, composition and optical properties from AER-D aircraft measurements over the Tropical Eastern Atlantic **2018**,		1
143	A measurement-based verification framework for UK greenhouse gas emissions: an overview of the Greenhouse gAs Uk and Global Emissions (GAUGE) project. *Atmospheric Chemistry and Physics*, **2018** , 18, 11753-11777	6.8	22
142	Microphysical Properties and Radar Polarimetric Features within a Warm Front. *Monthly Weather Review*, **2018**, 146, 2003-2022	2.4	5
141	Microphysical Properties of Ice Crystal Precipitation and Surface-Generated Ice Crystals in a High Alpine Environment in Switzerland. *Journal of Applied Meteorology and Climatology*, **2017**, 56, 433-453	2.7	9
140	Measurement of the 13C isotopic signature of methane emissions from northern European wetlands. *Global Biogeochemical Cycles*, **2017**, 31, 605-623	5.9	36
139	Ice lollies: An ice particle generated in supercooled conveyor belts. *Geophysical Research Letters*, **2017**, 44, 5222-5230	4.9	8
138	The Role of Precipitation in Controlling the Transition from Stratocumulus to Cumulus Clouds in a Northern Hemisphere Cold-Air Outbreak. *Journals of the Atmospheric Sciences*, **2017**, 74, 2293-2314	2.1	40
137	A cautionary tale: A study of a methane enhancement over the North Sea. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 7630-7645	4.4	16
136	In situ measurements of cloud microphysics and aerosol over coastal Antarctica during the MAC campaign. *Atmospheric Chemistry and Physics*, **2017**, 17, 13049-13070	6.8	19

135	Real-time detection of airborne fluorescent bioparticles in Antarctica. *Atmospheric Chemistry and Physics*, **2017**, 17, 14291-14307	6.8	13
134	Real Time Detection of Airborne Bioparticles in Antarctica **2017**,		1
133	Are the Fenno-Scandinavian Arctic Wetlands a Significant Regional Source of Formic Acid?. *Atmosphere*, **2017**, 8, 112	2.7	3
132	Airborne observations of the microphysical structure of two contrasting cirrus clouds. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 13,510-13,536	4.4	17
131	Aerosol measurements during COPE: composition, size, and sources of CCN and INPs at the interface between marine and terrestrial influences. *Atmospheric Chemistry and Physics*, **2016**, 16, 11687-11709	6.8	9
130	Observations of cloud microphysics and ice formation during COPE. *Atmospheric Chemistry and Physics*, **2016**, 16, 799-826	6.8	40
129	Comparing model and measured ice crystal concentrations in orographic clouds during the INUPIAQ campaign. *Atmospheric Chemistry and Physics*, **2016**, 16, 4945-4966	6.8	18
128	Observed microphysical changes in Arctic mixed-phase clouds when transitioning from sea ice to open ocean. *Atmospheric Chemistry and Physics*, **2016**, 16, 13945-13967	6.8	21
127	Observations of fluorescent aerosol–cloud interactions in the free troposphere at the High-Altitude Research Station Jungfraujoch. *Atmospheric Chemistry and Physics*, **2016**, 16, 2273-2284	6.8	25
126	Size-segregated compositional analysis of aerosol particles collected in the European Arctic during the ACCACIA campaign. *Atmospheric Chemistry and Physics*, **2016**, 16, 4063-4079	6.8	19
125	Constraints on oceanic methane emissions west of Svalbard from atmospheric in situ measurements and Lagrangian transport modeling. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 14188-14200	4.4	9
124	Aerosol measurements during COPE: composition, size and sources of CCN and IN at the interface between marine and terrestrial influences **2016**,		1
123	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. *Geophysical Research Letters*, **2016**, 43, 4624-4631	4.9	60
122	The Convective Precipitation Experiment (COPE): Investigating the Origins of Heavy Precipitation in the Southwestern United Kingdom. *Bulletin of the American Meteorological Society*, **2016**, 97, 1003-1020	6.1	33
121	Measurements of ^{13}C in CH_4 and using particle dispersion modeling to characterize sources of Arctic methane within an air mass. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 14257-14270	4.4	17
120	Cloud Banding and Winds in Intense European Cyclones: Results from the DIAMET Project. *Bulletin of the American Meteorological Society*, **2015**, 96, 249-265	6.1	31
119	The origins of ice crystals measured in mixed-phase clouds at the high-alpine site Jungfraujoch. *Atmospheric Chemistry and Physics*, **2015**, 15, 12953-12969	6.8	44
118	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	6.8	44

117	Observations and comparisons of cloud microphysical properties in spring and summertime Arctic stratocumulus clouds during the ACCACIA campaign. *Atmospheric Chemistry and Physics*, **2015**, 15, 3719-3737	6.8	26
116	Microphysical properties of cold frontal rainbands *Quarterly Journal of the Royal Meteorological Society*, **2014**, 140, 1257-1268	6.4	33
115	Airborne measurements of HC(O)OH in the European Arctic: A winter summer comparison. *Atmospheric Environment*, **2014**, 99, 556-567	5.3	12
114	Observations of the Origin and Distribution of Ice in Cold, Warm, and Occluded Frontal Systems during the DIAMET Campaign. *Monthly Weather Review*, **2014**, 142, 4230-4255	2.4	13
113	Atmospheric composition and thermodynamic retrievals from the ARIES airborne TIR-FTS system Part 2: Validation and results from aircraft campaigns. *Atmospheric Measurement Techniques*, **2014**, 7, 4401-4416	4	16
112	Methane and carbon dioxide fluxes and their regional scalability for the European Arctic wetlands during the MAMM project in summer 2012. *Atmospheric Chemistry and Physics*, **2014**, 14, 13159-13174	6.8	29
111	Diabatic Heating and Cooling Rates Derived from In Situ Microphysics Measurements: A Case Study of a Wintertime U.K. Cold Front. *Monthly Weather Review*, **2014**, 142, 3100-3125	2.4	14
110	Can aerosols influence deep tropical convection? Aerosol indirect effects in the Hector island thunderstorm. *Quarterly Journal of the Royal Meteorological Society*, **2013**, 139, 2190-2208	6.4	11
109	Comparison of in-situ, satellite and ground-based remote sensing retrievals of liquid cloud microphysics during MACLOUD **2013**,		1
108	Evaluating MODIS cloud retrievals with in situ observations from VOCALS-REx. *Atmospheric Chemistry and Physics*, **2013**, 13, 191-209	6.8	42
107	Characterizing the aging of biomass burning organic aerosol by use of mixing ratios: a meta-analysis of four regions. *Environmental Science & Technology*, **2012**, 46, 13093-102	10.3	93
106	Marine cloud brightening. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 4217-62	3	97
105	Ice formation and development in aged, wintertime cumulus over the UK: observations and modelling. *Atmospheric Chemistry and Physics*, **2012**, 12, 4963-4985	6.8	73
104	Aerosol observations and growth rates downwind of the anvil of a deep tropical thunderstorm. *Atmospheric Chemistry and Physics*, **2012**, 12, 6157-6172	6.8	15
103	Aircraft measurements of wave clouds. *Atmospheric Chemistry and Physics*, **2012**, 12, 9881-9892	6.8	7
102	In-situ aircraft observations of ice concentrations within clouds over the Antarctic Peninsula and Larsen Ice Shelf. *Atmospheric Chemistry and Physics*, **2012**, 12, 11275-11294	6.8	32
101	Observations and modelling of microphysical variability, aggregation and sedimentation in tropical anvil cirrus outflow regions. *Atmospheric Chemistry and Physics*, **2012**, 12, 6609-6628	6.8	22
100	Aerosol scattering and absorption during the EUCAARI-LONGREX flights of the Facility for Airborne Atmospheric Measurements (FAAM) BAe-146: can measurements and models agree?. *Atmospheric Chemistry and Physics*, **2012**, 12, 7251-7267	6.8	21

99	A methodology for in-situ and remote sensing of microphysical and radiative properties of contrails as they evolve into cirrus. *Atmospheric Chemistry and Physics*, **2012**, 12, 8157-8175	6.8	13
98	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	6.8	51
97	South East Pacific atmospheric composition and variability sampled along 20°S during VOCALS-REx. *Atmospheric Chemistry and Physics*, **2011**, 11, 5237-5262	6.8	105
96	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	6.8	199
95	Observations of ice multiplication in a weakly convective cell embedded in supercooled mid-level stratus. *Atmospheric Chemistry and Physics*, **2011**, 11, 257-273	6.8	81
94	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. *Atmospheric Chemistry and Physics*, **2011**, 11, 627-654	6.8	238
93	Source attribution of Bornean air masses by back trajectory analysis during the OP3 project. *Atmospheric Chemistry and Physics*, **2011**, 11, 9605-9630	6.8	28
92	Development of ice particles in convective clouds observed over the Black Forest mountains during COPS. *Quarterly Journal of the Royal Meteorological Society*, **2011**, 137, 275-286	6.4	10
91	Carbonaceous aerosols contributed by traffic and solid fuel burning at a polluted rural site in Northwestern England. *Atmospheric Chemistry and Physics*, **2011**, 11, 1603-1619	6.8	31
90	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	6.8	91
89	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	6.8	162
88	Single particle characterization of black carbon aerosols at a tropospheric alpine site in Switzerland. *Atmospheric Chemistry and Physics*, **2010**, 10, 7389-7407	6.8	89
87	Evolution of organic aerosols in the atmosphere. *Science*, **2009**, 326, 1525-9	33.3	2767
86	A comparison between trajectory ensemble and adiabatic parcel modeled cloud properties and evaluation against airborne measurements. *Journal of Geophysical Research*, **2009**, 114,		16
85	Influence of particle chemical composition on the phase of cold clouds at a high-alpine site in Switzerland. *Journal of Geophysical Research*, **2009**, 114,		27
84	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	6.8	80
83	Global temperature stabilization via controlled albedo enhancement of low-level maritime clouds. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2008**, 366, 3969-87	3	131
82	Aerosol and trace-gas measurements in the Darwin area during the wet season. *Journal of Geophysical Research*, **2008**, 113,		37

81	Observations of an atmospheric chemical equator and its implications for the tropical warm pool region. *Journal of Geophysical Research*, **2008**, 113,		25
80	Correction to "Aerosol and trace-gas measurements in the Darwin area during the wet season" *Journal of Geophysical Research*, **2008**, 113,		4
79	The influence of small aerosol particles on the properties of water and ice clouds. *Faraday Discussions*, **2008**, 137, 205-22; discussion 297-318	3.6	40
78	The Tropical Warm Pool International Cloud Experiment. *Bulletin of the American Meteorological Society*, **2008**, 89, 629-646	6.1	149
77	SCOUT-O3/ACTIVE: High-altitude Aircraft Measurements around Deep Tropical Convection. *Bulletin of the American Meteorological Society*, **2008**, 89, 647-662	6.1	84
76	Supplement to The Tropical Warm Pool International Cloud Experiment. *Bulletin of the American Meteorological Society*, **2008**, 89, ES21-ES23	6.1	3
75	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	6.8	125
74	Aerosol partitioning between the interstitial and the condensed phase in mixed-phase clouds. *Journal of Geophysical Research*, **2007**, 112,		71
73	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	6.4	98
72	Aerosol Direct Radiative Impact Experiment (ADRIEX) overview. *Quarterly Journal of the Royal Meteorological Society*, **2007**, 133, 3-15	6.4	28
71	Closure study between chemical composition and hygroscopic growth of aerosol particles during TORCH2. *Atmospheric Chemistry and Physics*, **2007**, 7, 6131-6144	6.8	206
70	Scavenging of black carbon in mixed phase clouds at the high alpine site Jungfraujoch. *Atmospheric Chemistry and Physics*, **2007**, 7, 1797-1807	6.8	108
69	Calibration of the Cloud Particle Imager Probes Using Calibration Beads and Ice Crystal Analogs: The Depth of Field. *Journal of Atmospheric and Oceanic Technology*, **2007**, 24, 1860-1879	2	60
68	Technical Note: Description and Use of the New Jump Mass Spectrum Mode of Operation for the Aerodyne Quadrupole Aerosol Mass Spectrometers (Q-AMS). *Aerosol Science and Technology*, **2007**, 41, 865-872	3.4	24
67	Counterflow Virtual Impactor Based Collection of Small Ice Particles in Mixed-Phase Clouds for the Physico-Chemical Characterization of Tropospheric Ice Nuclei: Sampler Description and First Case Study. *Aerosol Science and Technology*, **2007**, 41, 848-864	3.4	71
66	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenically-influenced Northern Hemisphere midlatitudes. *Geophysical Research Letters*, **2007**, 34, n/a-n/a	4.9	1497
65	Chemical apportionment of shortwave direct aerosol radiative forcing at the Gosan super-site, Korea during ACE-Asia. *Atmospheric Environment*, **2006**, 40, 6718-6729	5.3	29
64	Computational assessment of a proposed technique for global warming mitigation via albedo-enhancement of marine stratocumulus clouds. *Atmospheric Research*, **2006**, 82, 328-336	5.4	49

63	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	6.8	54
62	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	6.8	138
61	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	6.8	40
60	The characterisation of pollution aerosol in a changing photochemical environment. *Atmospheric Chemistry and Physics*, **2006**, 6, 5573-5588	6.8	49
59	Cloud-resolving simulations of intense tropical Hector thunderstorms: Implications for aerosol□cloud interactions. *Quarterly Journal of the Royal Meteorological Society*, **2006**, 132, 3079-3106	6.4	45
58	Simplification of the representation of the organic component of atmospheric particulates. *Faraday Discussions*, **2005**, 130, 341-62; discussion 363-86, 519-24	3.6	106
57	An overview of the microphysical structure of cirrus clouds observed during EMERALD-1. *Quarterly Journal of the Royal Meteorological Society*, **2005**, 131, 1143-1169	6.4	36
56	Aircraft observations of the influence of electric fields on the aggregation of ice crystals. *Quarterly Journal of the Royal Meteorological Society*, **2005**, 131, 1695-1712	6.4	54
55	Street canyon aerosol pollutant transport measurements. *Science of the Total Environment*, **2004**, 334-335, 327-36	10.2	20
54	Parameterization of the cloud droplet□sulfate relationship. *Atmospheric Environment*, **2004**, 38, 287-292	5.3	28
53	Aerosol chemical characteristics from sampling conducted on the Island of Jeju, Korea during ACE Asia. *Atmospheric Environment*, **2004**, 38, 2111-2123	5.3	77
52	Characterization of urban and rural organic particulate in the Lower Fraser Valley using two Aerodyne Aerosol Mass Spectrometers. *Atmospheric Environment*, **2004**, 38, 5745-5758	5.3	344
51	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,		49
50	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,		133
49	Anatomy of cirrus clouds: Results from the Emerald airborne campaigns. *Geophysical Research Letters*, **2004**, 31,	4.9	39
48	Assessment of the photochemistry of OH and NO3 on Jeju Island during the Asian-dust-storm period in the spring of 2001. *Chemosphere*, **2004**, 55, 1127-42	8.4	18
47	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	4.3	615
46	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		332

45	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		139
44	Correction to 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		14
43	The Role of Cloud Processing in the Relationship Between Wet Deposited Sulphur and Sulphur Dioxide Emissions. *Water, Air and Soil Pollution*, **2001**, 1, 365-372		2
42	Modification of the aerosol size distribution within exhaust plumes produced by diesel-powered ships. *Journal of Geophysical Research*, **2001**, 106, 9827-9842		7
41	The Role of Cloud Processing in the Relationship between Wet Deposited Sulphur and Sulphur Dioxide Emissions **2001**, 365-372		
40	ACE-2 HILLCLOUD. An overview of the ACE-2 ground-based cloud experiment. *Tellus, Series B: Chemical and Physical Meteorology*, **2000**, 52, 750-778	3.3	41
39	Modelling cloud processing of aerosol during the ACE-2 HILLCLOUD experiment. *Tellus, Series B: Chemical and Physical Meteorology*, **2000**, 52, 779-800	3.3	10
38	Aerosol Development and Interaction in an Urban Plume. *Aerosol Science and Technology*, **2000**, 32, 120-126	3.4	27
37	Evolution of boundary-layer aerosol particles due to in-cloud chemical reactions during the 2nd Lagrangian experiment of ACE-2. *Tellus, Series B: Chemical and Physical Meteorology*, **2000**, 52, 452-462	3.3	3
36	A closure study of sub-micrometer aerosol particle hygroscopic behaviour. *Atmospheric Research*, **1999**, 50, 205-240	5.4	149
35	Droplet nucleation and growth in orographic clouds in relation to the aerosol population. *Atmospheric Research*, **1999**, 50, 289-315	5.4	37
34	A study of the effects of cloud processing of aerosol on the microphysics of cloud. *Quarterly Journal of the Royal Meteorological Society*, **1998**, 124, 1377-1389	6.4	8
33	The effect of sulphur chemistry on the scattering properties of particles. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1997**, 352, 213-220	5.8	2
32	Cloud droplet nucleation scavenging in relation to the size and hygroscopic behaviour of aerosol particles. *Atmospheric Environment*, **1997**, 31, 2463-2475	5.3	80
31	Individual Results from GCE Principal Investigators **1997**, 61-152		
30	Processing of oxidised nitrogen compounds by passage through winter-time orographic cloud. *Journal of Atmospheric Chemistry*, **1996**, 24, 211	3.2	10
29	A parametrization of the ice water content observed in frontal and convective clouds. *Quarterly Journal of the Royal Meteorological Society*, **1996**, 122, 1815-1844	6.4	57
28	A model of ammonia/ammonium conversion and deposition in a hill cap cloud. *Quarterly Journal of the Royal Meteorological Society*, **1995**, 121, 569-591	6.4	14

27	Computer modelling of clouds at Kleiner Feldberg. *Journal of Atmospheric Chemistry*, **1994**, 19, 189-229	3.2	31
26	A model of the development of droplet effective radius in convective cloud. *Quarterly Journal of the Royal Meteorological Society*, **1993**, 119, 443-456	6.4	2
25	Cloud processing of the cloud condensation nucleus spectrum and its climatological consequences. *Quarterly Journal of the Royal Meteorological Society*, **1993**, 119, 655-679	6.4	50
24	A model of occult deposition applicable to complex terrain. *Quarterly Journal of the Royal Meteorological Society*, **1991**, 117, 803-823	6.4	7
23	The effects of entrainment on the growth of droplets in continental cumulus clouds. *Quarterly Journal of the Royal Meteorological Society*, **1988**, 114, 1411-1434	6.4	25
22	Observation of absorbing aerosols above clouds over the South-East Atlantic Ocean from the geostationary satellite SEVIRI – Part 2: Comparison with MODIS and aircraft measurements from the CLARIFY-2017 field campaign		4
21	Open cells can decrease the mixing of free-tropospheric biomass burning aerosol into the south-east Atlantic boundary layer		2
20	Overview: The CLoud-Aerosol-Radiation Interaction and Forcing: Year-2017 (CLARIFY-2017) measurement campaign		4
19	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe		4
18	Single particle characterization of black carbon aerosols at a tropospheric alpine site in Switzerland		2
17	Studies of propane flame soot acting as heterogeneous ice nuclei in conjunction with single particle soot photometer measurements		1
16	Source attribution of Bornean air masses by back trajectory analysis during the OP3 project		2
15	Scattering and absorption by aerosols during EUCAARI-LONGREX: can airborne measurements and models agree?		4
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13	Ice formation and development in aged, wintertime cumulus over the UK : observations and modelling		2
12	Southeast Pacific atmospheric composition and variability sampled along 20°S during VOCALS-REx		5
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