

M W Gallagher

List of Publications by Citations

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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.

248
papers

7,508
citations

46
h-index

74
g-index

305
ext. papers

8,491
ext. citations

5.5
avg, IF

5.24
L-index

#	Paper	IF	Citations
248	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
247	High concentrations of biological aerosol particles and ice nuclei during and after rain. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6151-6164	6.8	268
246	Studies of heterogeneous freezing by three different desert dust samples. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2805-2824	6.8	249
245	Challenges in quantifying biosphere-atmosphere exchange of nitrogen species. <i>Environmental Pollution</i> , 2007 , 150, 125-39	9.3	186
244	Field inter-comparison of eleven atmospheric ammonia measurement techniques. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 91-112	4	175
243	Measurements and comparison of primary biological aerosol above and below a tropical forest canopy using a dual channel fluorescence spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4453-4466	6.8	148
242	Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18447-51	11.5	140
241	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
240	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
239	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
238	A review of measurement and modelling results of particle atmosphere-surface exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008 , 60, 42-75	3.3	118
237	Boundary layer dynamics over London, UK, as observed using Doppler lidar during REPARTEE-II. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2111-2125	6.8	112
236	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
235	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2975-2999	6.8	102
234	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
233	The fluorescence properties of aerosol larger than 0.8 μm in urban and tropical rainforest locations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5491-5504	6.8	80
232	Evaluation of laser absorption spectroscopic techniques for eddy covariance flux measurements of ammonia. <i>Environmental Science & Technology</i> , 2008 , 42, 2041-6	10.3	80

231	Measurements and parameterizations of small aerosol deposition velocities to grassland, arable crops, and forest: Influence of surface roughness length on deposition. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 8-1		78
230	Global-scale atmosphere monitoring by in-service aircraft [urrent achievements and future prospects of the European Research Infrastructure IAGOS. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2015 , 67, 28452	3.3	75
229	Particle deposition to forests Summary of results and application. <i>Atmospheric Environment</i> , 1997 , 31, 321-332	5.3	74
228	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
227	Aerosol partitioning between the interstitial and the condensed phase in mixed-phase clouds. <i>Journal of Geophysical Research</i> , 2007 , 112,		71
226	Biosphere-atmosphere interactions of ammonia with grasslands: Experimental strategy and results from a new European initiative. <i>Plant and Soil</i> , 2001 , 228, 131-145	4.2	69
225	Real-time sensing of bioaerosols: Review and current perspectives. <i>Aerosol Science and Technology</i> , 2020 , 54, 465-495	3.4	68
224	Development of a cavity-enhanced absorption spectrometer for airborne measurements of CH ₄ and CO ₂ . <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1095-1109	4	65
223	Size-resolved measurements of cloud droplet deposition velocity to a forest canopy using an eddy correlation technique. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1991 , 117, 623-645	6.4	65
222	Micrometeorological measurements of particle deposition velocities to moorland vegetation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002 , 128, 2281-2300	6.4	62
221	Calibration of the Cloud Particle Imager Probes Using Calibration Beads and Ice Crystal Analogs: The Depth of Field. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007 , 24, 1860-1879	2	60
220	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 4624-4631	4.9	60
219	Gas-particle interactions above a Dutch heathland: II. Concentrations and surface exchange fluxes of atmospheric particles. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 1007-1024	6.8	59
218	Cluster analysis of WIBS single-particle bioaerosol data. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 337-347	4	57
217	Seasonal and Diurnal Variation in Atmospheric Ammonia in an Urban Environment Measured Using a Quantum Cascade Laser Absorption Spectrometer. <i>Water, Air, and Soil Pollution</i> , 2007 , 183, 317-329	2.6	57
216	Effects of land use on surface-atmosphere exchanges of trace gases and energy in Borneo: comparing fluxes over oil palm plantations and a rainforest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 3196-209	5.8	55
215	Observations of fluorescent and biological aerosol at a high-altitude site in central France. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7415-7428	6.8	54
214	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

213	Aircraft observations of the influence of electric fields on the aggregation of ice crystals. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005 , 131, 1695-1712	6.4	54
212	Fluorescent bioaerosol particle, molecular tracer, and fungal spore concentrations during dry and rainy periods in a semi-arid forest. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15165-15184	6.8	52
211	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
210	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of α -pinene. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6495-6509	6.8	51
209	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
208	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
207	Atmospheric Ice-Nucleating Particles in the Dusty Tropical Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 2175-2193	4.4	47
206	Observation of viscosity transition in α -pinene secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4423-4438	6.8	47
205	Dynamics of ammonia exchange with cut grassland: synthesis of results and conclusions of the GRAMINAE Integrated Experiment. <i>Biogeosciences</i> , 2009 , 6, 2907-2934	4.6	47
204	Ultrafine particle fluxes above four major European cities. <i>Atmospheric Environment</i> , 2009 , 43, 4714-4723	5.3	47
203	Dynamics of ammonia exchange with cut grassland: strategy and implementation of the GRAMINAE Integrated Experiment. <i>Biogeosciences</i> , 2009 , 6, 309-331	4.6	47
202	Application of the Aventech AIMMS20AQ airborne probe for turbulence measurements during the Convective Storm Initiation Project. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5449-5463	6.8	46
201	Cloud-resolving simulations of intense tropical Hector thunderstorms: Implications for aerosol-cloud interactions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006 , 132, 3079-3106	6.4	45
200	The origins of ice crystals measured in mixed-phase clouds at the high-alpine site Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12953-12969	6.8	44
199	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
198	Uptake of methanol to the North Atlantic Ocean surface. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	44
197	Sources of uncertainty in eddy covariance ozone flux measurements made by dry chemiluminescence fast response analysers. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 163-176	4	42
196	Area fluxes of carbon dioxide, methane, and carbon monoxide derived from airborne measurements around Greater London: A case study during summer 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4940-4952	4.4	41

195	Continuous bioaerosol monitoring in a tropical environment using a UV fluorescence particle spectrometer. <i>Atmospheric Science Letters</i> , 2011 , 12, 195-199	2.4	41
194	Aerosol fluxes and particle growth above managed grassland. <i>Biogeosciences</i> , 2009 , 6, 1627-1645	4.6	41
193	ACE-2 HILLCLOUD. An overview of the ACE-2 ground-based cloud experiment. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 750-778	3.3	41
192	Measurements of the size dependence of cloud droplet deposition at a hill site. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1988 , 114, 1291-1303	6.4	41
191	Observations of cloud microphysics and ice formation during COPE. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 799-826	6.8	40
190	Use of a detailed model to study the exchange of NO _x and O ₃ above and below a deciduous canopy. <i>Atmospheric Environment</i> , 1997 , 31, 2915-2931	5.3	40
189	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
188	Low-cost real-time multiparameter bio-aerosol sensors 2008 ,		40
187	Anatomy of cirrus clouds: Results from the Emerald airborne campaigns. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	39
186	Evaluation of hierarchical agglomerative cluster analysis methods for discrimination of primary biological aerosol. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4979-4991	4	38
185	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
184	Aerosol and trace-gas measurements in the Darwin area during the wet season. <i>Journal of Geophysical Research</i> , 2008 , 113,		37
183	Ozone deposition to coastal waters. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001 , 127, 539-558	6.4	37
182	Measurement of the ¹³ C isotopic signature of methane emissions from northern European wetlands. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 605-623	5.9	36
181	Evaluation of machine learning algorithms for classification of primary biological aerosol using a new UV-LIF spectrometer. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 695-708	4	36
180	Direct linkage between tidally driven coastal ozone deposition fluxes, particle emission fluxes, and subsequent CCN formation. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	36
179	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
178	An overview of the microphysical structure of cirrus clouds observed during EMERALD-1. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005 , 131, 1143-1169	6.4	36

177	Aqueous phase oxidation of sulphur dioxide by ozone in cloud droplets. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1693-1712	6.8	35
176	In Situ, Airborne Instrumentation: Addressing and Solving Measurement Problems in Ice Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, ES29-ES34	6.1	34
175	Microphysical properties of cold frontal rainbands. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 1257-1268	6.4	33
174	Characterisation of bioaerosol emissions from a Colorado pine forest: results from the BEACHON-RoMBAS experiment. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8559-8578	6.8	33
173	Regional-scale simulations of fungal spore aerosols using an emission parameterization adapted to local measurements of fluorescent biological aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6127-6146	6.8	33
172	An aerosol chamber investigation of the heterogeneous ice nucleating potential of refractory nanoparticles. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1227-1247	6.8	33
171	Surface/atmosphere exchange and chemical interaction of gases and aerosols over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 427-445	5.8	33
170	The Convective Precipitation Experiment (COPE): Investigating the Origins of Heavy Precipitation in the Southwestern United Kingdom. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 1003-1020	6.1	33
169	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
168	In-situ aircraft observations of ice concentrations within clouds over the Antarctic Peninsula and Larsen Ice Shelf. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11275-11294	6.8	32
167	Inter-comparison of ammonia fluxes obtained using the Relaxed Eddy Accumulation technique. <i>Biogeosciences</i> , 2009 , 6, 2575-2588	4.6	32
166	Latitudinal aerosol size distribution variation in the Eastern Atlantic Ocean measured aboard the FS-Polarstern. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2563-2573	6.8	32
165	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
164	Seasonal variations in VOC emission rates from gorse (<i>Ulex europaeus</i>). <i>Atmospheric Environment</i> , 2001 , 35, 917-927	5.3	32
163	Cloud Banding and Winds in Intense European Cyclones: Results from the DIAMET Project. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 249-265	6.1	31
162	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
161	Intercomparison and assessment of turbulent and physiological exchange parameters of grassland. <i>Biogeosciences</i> , 2009 , 6, 1445-1466	4.6	31
160	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

159	Methane and carbon dioxide fluxes and their regional scalability for the European Arctic wetlands during the MAMM project in summer 2012. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13159-13174	6.8	29
158	Fluxes of ammonia over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 327-349	5.8	29
157	The Great Dun Fell Experiment 1995: an overview. <i>Atmospheric Research</i> , 1999 , 50, 151-184	5.4	29
156	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11823-11838	6.8	28
155	Parameterization of the cloud droplet-sulfate relationship. <i>Atmospheric Environment</i> , 2004 , 38, 287-292	5.3	28
154	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
153	Aerosol Development and Interaction in an Urban Plume. <i>Aerosol Science and Technology</i> , 2000 , 32, 120-126	5.4	27
152	Measurements and modelling of cloudwater deposition to moorland and forests. <i>Environmental Pollution</i> , 1992 , 75, 97-107	9.3	27
151	A Review of Ice Particle Shapes in Cirrus formed In Situ and in Anvils. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10049-10090	4.4	26
150	Observations and comparisons of cloud microphysical properties in spring and summertime Arctic stratocumulus clouds during the ACCACIA campaign. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3719-3737	6.8	26
149	EUREC4A. <i>Earth System Science Data</i> , 2021 , 13, 4067-4119	10.5	26
148	Observations of fluorescent aerosol-cloud interactions in the free troposphere at the High-Altitude Research Station Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2273-2284	6.8	25
147	Investigating a two-component model of solid fuel organic aerosol in London: processes, PM ₁ contributions, and seasonality. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2429-2443	6.8	25
146	Boundary layer structure and decoupling from synoptic scale flow during NAMBLEX. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 433-445	6.8	25
145	Case studies of the oxidation of sulphur dioxide in a hill cap cloud using ground and aircraft based measurements. <i>Journal of Geophysical Research</i> , 1990 , 95, 18517		24
144	Coordinated Airborne Studies in the Tropics (CAST). <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 145-162	6.1	23
143	Classification of Arctic, midlatitude and tropical clouds in the mixed-phase temperature regime. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12219-12238	6.8	23
142	Airborne observations of trace gases over boreal Canada during BORTAS: campaign climatology, air mass analysis and enhancement ratios. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 12451-12467	6.8	23

141	Some observations of airflow over a large hill of moderate slope. <i>Boundary-Layer Meteorology</i> , 1988 , 42, 229-250	3.4	23
140	Surface/atmosphere exchange and chemical interactions of reactive nitrogen compounds above a manured grassland. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1488-1503	5.8	22
139	Observations and modelling of microphysical variability, aggregation and sedimentation in tropical anvil cirrus outflow regions. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6609-6628	6.8	22
138	Measurements of methane fluxes on the landscape scale from a wetland area in North Scotland. <i>Atmospheric Environment</i> , 1994 , 28, 2421-2430	5.3	22
137	Quasi-Spherical Ice in Convective Clouds. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 3885-3910	2.1	22
136	A measurement-based verification framework for UK greenhouse gas emissions: an overview of the Greenhouse gAs Uk and Global Emissions (GAUGE) project. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11753-11777	6.8	22
135	Observed microphysical changes in Arctic mixed-phase clouds when transitioning from sea ice to open ocean. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13945-13967	6.8	21
134	Comparison of ozone fluxes over grassland by gradient and eddy covariance technique. <i>Atmospheric Science Letters</i> , 2009 , 10, 164-169	2.4	21
133	Biogenic emissions of volatile organic compounds from gorse (<i>Ulex europaeus</i>): Diurnal emission fluxes at Kelling Heath, England. <i>Journal of Geophysical Research</i> , 1997 , 102, 18903-18915		21
132	The backscatter cloud probe β compact low-profile autonomous optical spectrometer. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 1443-1457	4	20
131	Street canyon aerosol pollutant transport measurements. <i>Science of the Total Environment</i> , 2004 , 334-335, 327-36	10.2	20
130	Oxidized nitrogen and ozone interaction with forests. II: Multi-layer process-oriented modelling results and a sensitivity study for Douglas fir. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 1957-1971	6.4	20
129	A Relaxed Eddy Accumulation System for the Automated Measurement of Atmospheric Ammonia Fluxes. <i>Water, Air and Soil Pollution</i> , 2001 , 1, 189-202		20
128	Nitrite in orographic cloud as an indicator of nitrous acid in rural air. <i>Atmospheric Environment Part A General Topics</i> , 1992 , 26, 2301-2307		20
127	Measurements of the entrainment of hydrogen peroxide into cloud systems. <i>Atmospheric Environment Part A General Topics</i> , 1991 , 25, 2029-2038		20
126	The development and evaluation of airborne in situ N_2O and CH_4 sampling using a quantum cascade laser absorption spectrometer (QCLAS). <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 63-77	4	20
125	Size-segregated compositional analysis of aerosol particles collected in the European Arctic during the ACCACIA campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4063-4079	6.8	19
124	Assessing London CO_2 , CH_4 and CO emissions using aircraft measurements and dispersion modelling. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8931-8945	6.8	19

123	In situ measurements of cloud microphysics and aerosol over coastal Antarctica during the MAC campaign. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13049-13070	6.8	19
122	Comparing model and measured ice crystal concentrations in orographic clouds during the INUPIAQ campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4945-4966	6.8	18
121	Inter-comparison of ammonia fluxes obtained using the relaxed eddy accumulation technique		18
120	Dynamics of ammonia exchange with cut grassland: synthesis of results and conclusions of the GRAMINAE Integrated Experiment		18
119	Enhanced ozone loss by active inorganic bromine chemistry in the tropical troposphere. <i>Atmospheric Environment</i> , 2017 , 155, 21-28	5.3	17
118	Airborne observations of the microphysical structure of two contrasting cirrus clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,510-13,536	4.4	17
117	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
116	Dynamics of ammonia exchange with cut grassland: strategy and implementation of the GRAMINAE Integrated Experiment		17
115	Measurements of κ in CH and using particle dispersion modeling to characterize sources of Arctic methane within an air mass. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14257-14270	4.4	17
114	Atmospheric composition and thermodynamic retrievals from the ARIES airborne TIR-FTS system □ Part 2: Validation and results from aircraft campaigns. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 4401-4416	4	16
113	The effect of observed vertical structure, habits, and size distributions on the solar radiative properties and cloud evolution of cirrus clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 1221-1232	6.4	16
112	Characterisation and source identification of biofluorescent aerosol emissions over winter and summer periods in the United Kingdom. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1665-1684	6.8	15
111	Radiative Effects of Secondary Ice Enhancement in Coastal Antarctic Clouds. <i>Geophysical Research Letters</i> , 2019 , 46, 2312-2321	4.9	15
110	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
109	Measurements of iodine monoxide at a semi polluted coastal location. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3645-3663	6.8	15
108	A Relaxed Eddy Accumulation System for the Automated Measurement of Atmospheric Ammonia Fluxes 2001 , 189-202		15
107	Simultaneous coastal measurements of ozone deposition fluxes and iodine-mediated particle emission fluxes with subsequent CCN formation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 255-266	6.8	14
106	Measurement and modelling of cloudwater deposition to a snow-covered forest canopy. <i>Atmospheric Environment Part A General Topics</i> , 1992 , 26, 2893-2903		14

105	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
104	Machine learning for improved data analysis of biological aerosol using the WIBS. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6203-6230	4	14
103	Measurement of boundary layer ozone concentrations on-board a Skywalker unmanned aerial vehicle. <i>Atmospheric Science Letters</i> , 2014 , 15, n/a-n/a	2.4	13
102	Real-time detection of airborne fluorescent bioparticles in Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14291-14307	6.8	13
101	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
100	A field study of the oxidation of SO ₂ in a cap cloud at Great Dun Fell. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1989 , 115, 397-420	6.4	13
99	Sensitivity of WRF Cloud Microphysics to Simulations of a Convective Storm Over the Nepal Himalayas. <i>The Open Atmospheric Science Journal</i> , 2017 , 11, 29-43	0.7	13
98	High concentrations of biological aerosol particles and ice nuclei during and after rain		13
97	Airborne measurements of HC(O)OH in the European Arctic: A winter & summer comparison. <i>Atmospheric Environment</i> , 2014 , 99, 556-567	5.3	12
96	Testing the near-field Gaussian plume inversion flux quantification technique using unmanned aerial vehicle sampling. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1467-1484	4	11
95	Phase transition observations and discrimination of small cloud particles by light polarization in expansion chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3651-3664	6.8	11
94	Can aerosols influence deep tropical convection? Aerosol indirect effects in the Hector island thunderstorm. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 2190-2208	6.4	11
93	A Relaxed Eddy Accumulation (REA)-GC/MS system for the determination of halocarbon fluxes. <i>Atmospheric Measurement Techniques</i> , 2009 , 2, 437-448	4	11
92	Ozone Dry Deposition Velocities for Coastal Waters. <i>Water, Air and Soil Pollution</i> , 2001 , 1, 233-242		11
91	Unexpected vertical structure of the Saharan Air Layer and giant dust particles during AER-D. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17655-17668	6.8	11
90	Upper tropospheric water vapour and its interaction with cirrus clouds as seen from IAGOS long-term routine in situ observations. <i>Faraday Discussions</i> , 2017 , 200, 229-249	3.6	10
89	Properties of small cirrus ice crystals from commercial aircraft measurements and implications for flight operations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2015 , 67, 27876	3.3	10
88	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

87	Processing of oxidised nitrogen compounds by passage through winter-time orographic cloud. <i>Journal of Atmospheric Chemistry</i> , 1996 , 24, 211	3.2	10
86	Investigating the annual behaviour of submicron secondary inorganic and organic aerosols in London		10
85	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff		10
84	Intercomparison and assessment of turbulent and physiological exchange parameters of grassland		10
83	Aerosol fluxes and particle growth above managed grassland		10
82	Atmospheric Particles and their Interactions with Natural Surfaces 1997 , 45-92		10
81	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
80	Aerosol measurements during COPE: composition, size, and sources of CCN and INPs at the interface between marine and terrestrial influences. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11687-11709 ^{6,8}		10 ⁹
79	Constraints on oceanic methane emissions west of Svalbard from atmospheric in situ measurements and Lagrangian transport modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14188-14200	4.4	9
78	The first regular measurements of ozone, carbon monoxide and water vapour in the Pacific UTLS by IAGOS. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2015 , 67, 28385	3.3	9
77	A field study of the generation of nitrate in a hill cap cloud. <i>Environmental Pollution</i> , 1992 , 75, 69-73	9.3	9
76	Small ice particles at slightly supercooled temperatures in tropical maritime convection. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3895-3904	6.8	8
75	Measurements of cloud water deposition on vegetation using a lysimeter and a flux gradient technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990 , 42, 285-293	3.3	8
74	Energy and ozone fluxes over sea ice. <i>Atmospheric Environment</i> , 2012 , 47, 218-225	5.3	7
73	CityFlux perfluorocarbon tracer experiments. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5991-5997	6.8	7
72	Field observations of SIV in cloud. <i>Atmospheric Research</i> , 1999 , 50, 345-358	5.4	7
71	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
70	Measurements of cloud water deposition on vegetation using a lysimeter and a flux gradient technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990 , 42, 285-293	3.3	7

69	Intercomparison of Multiple UV-LIF Spectrometers Using the Aerosol Challenge Simulator. <i>Atmosphere</i> , 2019 , 10, 797	2.7	7
68	A case study of stably stratified airflow over the pennines using an instrumented glider. <i>Boundary-Layer Meteorology</i> , 1989 , 46, 153-168	3.4	6
67	Regional-scale simulations of fungal spore aerosols using an emission parameterization adapted to local measurements of fluorescent biological aerosol particles		6
66	Contributions from transport, solid fuel burning and cooking to primary organic aerosols in two UK cities		6
65	Cluster analysis of WBS single particle bioaerosol data 2012 ,		5
64	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, 513-518	6.8	5
63	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
62	Size distribution, mixing state and source apportionments of black carbon aerosols in London during winter time		5
61	The import and export of organic nitrogen species at a Scottish ombrotrophic peatland. <i>Biogeosciences</i> , 2016 , 13, 2353-2365	4.6	5
60	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. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17191-17206	6.8	5
59	Diurnal and seasonal variations of meteorology and aerosol concentrations in the foothills of the nepal himalayyas (Nagarkot: 1,900 m asl). <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016 , 52, 63-75	2.1	4
58	Linking urban aerosol fluxes in street canyons to larger scale emissions. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2475-2490	6.8	4
57	Correction to "Aerosol and trace-gas measurements in the Darwin area during the wet season" <i>Journal of Geophysical Research</i> , 2008 , 113,		4
56	The effect of solar radiation on occult deposition over hills. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1989 , 115, 701-708	6.4	4
55	The origins of ice crystals measured in mixed phase clouds at High-Alpine site Jungfrauoch		4
54	Observation of viscosity transition in β -pinene secondary organic aerosol		4
53	Measurements of iodine monoxide at a semi polluted coastal location		4
52	Field inter-comparison of eleven atmospheric ammonia measurement techniques		4

51	Subproject BIATEX-2 Measurement and Interpretation of Land-Atmosphere Aerosol Fluxes: Current Issues and New Approaches 2001 , 45-53		4
50	Intercomparison study and optical asphericity measurements of small ice particles in the CERN CLOUD experiment. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 3231-3248	4	3
49	Are the Fenno-Scandinavian Arctic Wetlands a Significant Regional Source of Formic Acid?. <i>Atmosphere</i> , 2017 , 8, 112	2.7	3
48	Measurements of the size dependence of cloud droplet deposition at a hill site 1988 , 114, 1291		3
47	Investigating the two-component model of solid fuel organic aerosol in London: processes, PM ₁ contributions, and seasonality		3
46	Comparing model and measured ice crystal concentrations in orographic clouds during the INUPIAQ campaign		3
45	An aerosol chamber investigation of the heterogeneous ice nucleating potential of refractory nanoparticles		3
44	Testing the near-field Gaussian plume inversion flux quantification technique using unmanned aerial vehicle sampling		3
43	Atmospheric composition and thermodynamic retrievals from the ARIES airborne TIR-FTS system □ Part 2: Validation and results from aircraft campaigns		3
42	Evaluation of hierarchical agglomerative cluster analysis methods for discrimination of primary biological aerosol		3
41	The development and evaluation of airborne in situ N ₂ O and CH ₄ sampling using a Quantum Cascade Laser Absorption Spectrometer (QCLAS)		3
40	Detection of Airborne Biological Particles in Indoor Air Using a Real-Time Advanced Morphological Parameter UV-LIF Spectrometer and Gradient Boosting Ensemble Decision Tree Classifiers. <i>Atmosphere</i> , 2020 , 11, 1039	2.7	2
39	Classification of Arctic, Mid-Latitude and Tropical Clouds in the Mixed-Phase Temperature Regime 2017 ,		2
38	Particle fluxes and condensational uptake over sea ice during COBRA. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		2
37	Development of a cavity enhanced absorption spectrometer for airborne measurements of CH ₄ and CO ₂ ; 2013 ,		2
36	The effect of sulphur chemistry on the scattering properties of particles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997 , 352, 213-220	5.8	2
35	Size-resolved measurements of cloud droplet deposition velocity to a forest canopy using an eddy correlation technique 1991 , 117, 623		2
34	Ozone deposition to coastal waters 2001 , 127, 539		2

33	Aerosol fluxes and dynamics within and above a tropical rainforest in South-East Asia		2
32	Ice formation and development in aged, wintertime cumulus over the UK : observations and modelling		2
31	The fluorescence properties of aerosol larger than 0.8 μm in an urban and a PBA-dominated location		2
30	Airborne observations of trace gases over boreal Canada during BORTAS: campaign climatology, air mass analysis and enhancement ratios		2
29	Methane and carbon dioxide fluxes and their regional scalability for the European Arctic wetlands during the MAMM project in summer 2012		2
28	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of α -pinene		2
27	Application of the Aventech AIMMS20AQ airborne probe for turbulence measurements during the Convective Storm Initiation Project		2
26	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study		2
25	Sources of uncertainty in eddy covariance ozone flux measurements made by dry chemiluminescence fast response analysers		2
24	In Situ Measurements of Cirrus Clouds on a Global Scale. <i>Atmosphere</i> , 2021 , 12, 41	2.7	2
23	Airborne Bacterial and Eukaryotic Community Structure across the United Kingdom Revealed by High-Throughput Sequencing. <i>Atmosphere</i> , 2020 , 11, 802	2.7	2
22	EUREC4A		2
21	High concentrations of ice crystals in upper-tropospheric tropical clouds: is there a link to biomass and fossil fuel combustion?. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 2269-2292	6.8	2
20	Real Time Detection of Airborne Bioparticles in Antarctica 2017 ,		1
19	Sensitivity of Precipitation to Aerosol and Temperature Perturbation over the Foothills of the Nepal Himalayas. <i>Proceedings (mdpi)</i> , 2017 , 1, 144	0.3	1
18	Comparison of in-situ, satellite and ground-based remote sensing retrievals of liquid cloud microphysics during MACLOUD 2013 ,		1
17	Corrigendum to: "Studies of heterogeneous freezing by three different desert dust samples", <i>Atmos. Chem. Phys.</i> , 9, 2805-2824, 2009. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10079-10080	6.8	1
16	Identification and verification of ultrafine particle affinity zones in urban neighbourhoods: sample design and data pre-processing. <i>Environmental Health</i> , 2009 , 8 Suppl 1, S5	6	1

15	Studies of propane flame soot acting as heterogeneous ice nuclei in conjunction with single particle soot photometer measurements		1
14	Characterisation of bioaerosol emissions from a Colorado pine forest: results from the BEACHON-RoMBAS experiment		1
13	Arctic Ice Fog: Its Microphysics and Prediction. <i>Springer Polar Sciences</i> , 2020 , 361-414	0.4	1
12	Discrimination of water, ice and aerosols by light polarisation in the CLOUD experiment		1
11	A Relaxed Eddy Accumulation (REA)-GC/MS system for the determination of halocarbon fluxes		1
10	Simultaneous coastal measurements of ozone deposition fluxes and iodine-mediated particle emission fluxes with subsequent CCN formation		1
9	Atmospheric chemistry and physics in the atmosphere of a developed megacity (London): an overview of the REPAREE experiment and its conclusions		1
8	Observations of fluorescent and biological aerosol at a high-altitude site in Central France		1
7	The Observation and Characterisation of Fluorescent Bioaerosols Using Real-Time UV-LIF Spectrometry in Hong Kong from June to November 2018. <i>Atmosphere</i> , 2020 , 11, 944	2.7	1
6	Aerosol measurements during COPE: composition, size and sources of CCN and IN at the interface between marine and terrestrial influences 2016 ,		1
5	Coarse mode mineral dust size distributions, composition and optical properties from AER-D aircraft measurements over the Tropical Eastern Atlantic 2018 ,		1
4	EUREC4A		1
3	Interaction of solar radiation with a hill cap cloud. <i>Atmospheric Research</i> , 1995 , 39, 239-260	5.4	
2	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	
1	Measurements and Models of Wet Deposition to Irregular Topography 1989 , 213-222		