

Ken Carslaw

List of Publications by Year in Descending Order

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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.

275
papers

21,095
citations

76
h-index

140
g-index

353
ext. papers

24,523
ext. citations

9.8
avg, IF

6.37
L-index

#	Paper	IF	Citations
275	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. <i>Nature Communications</i> , 2021 , 12, 6416	17.4	7
274	Model emulation to understand the joint effects of ice-nucleating particles and secondary ice production on deep convective anvil cirrus. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17315-17343	6.8	1
273	Controls on surface aerosol particle number concentrations and aerosol-limited cloud regimes over the central Greenland Ice Sheet. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15351-15374	6.8	0
272	Large contribution to secondary organic aerosol from isoprene cloud chemistry. <i>Science Advances</i> , 2021 , 7,	14.3	10
271	The temperature dependence of ice-nucleating particle concentrations affects the radiative properties of tropical convective cloud systems. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5439-5461	6.8	11
270	Unknown Eruption Source Parameters Cause Large Uncertainty in Historical Volcanic Radiative Forcing Reconstructions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033578	4.4	2
269	Aerosol-cloud-climate cooling overestimated by ship-track data. <i>Science</i> , 2021 , 371, 485-489	33.3	17
268	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
267	A global model perturbed parameter ensemble study of secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2693-2723	6.8	4
266	Constraints on global aerosol number concentration, SO ₂ and condensation sink in UKESM1 using ATom measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4979-5014	6.8	2
265	Evaluation of natural aerosols in CRESCENDO Earth system models (ESMs): mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10295-10335	6.8	6
264	The driving factors of new particle formation and growth in the polluted boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14275-14291	6.8	8
263	Opinion: Cloud-phase climate feedback and the importance of ice-nucleating particles. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 665-679	6.8	27
262	The Impacts of Aerosol Emissions on Historical Climate in UKESM1. <i>Atmosphere</i> , 2020 , 11, 1095	2.7	5
261	Size-dependent influence of NO on the growth rates of organic aerosol particles. <i>Science Advances</i> , 2020 , 6, eaay4945	14.3	28
260	Enhanced growth rate of atmospheric particles from sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7359-7372	6.8	21
259	Impact of Changes to the Atmospheric Soluble Iron Deposition Flux on Ocean Biogeochemical Cycles in the Anthropocene. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006448	5.9	33

258	Constraining Uncertainty in Aerosol Direct Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087144	6.8	11
257	The value of remote marine aerosol measurements for constraining radiative forcing uncertainty. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10063-10072	6.8	11
256	Development of aerosol activation in the double-moment Unified Model and evaluation with CLARIFY measurements. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10997-11024	6.8	2
255	Evaluating the simulated radiative forcings, aerosol properties, and stratospheric warmings from the 1963 Mt Agung, 1982 El Chichón, and 1991 Mt Pinatubo volcanic aerosol clouds. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13627-13654	6.8	9
254	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
253	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. <i>Geoscientific Model Development</i> , 2020 , 13, 6383-6423	6.3	27
252	The decomposition of cloud-aerosol forcing in the UK Earth System Model (UKESM1). <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15681-15724	6.8	2
251	Effect of aerosol radiative forcing uncertainty on projected exceedance year of a 1.5 °C global temperature rise. <i>Environmental Research Letters</i> , 2020 , 15, 0940a6	6.2	3
250	Bounding Global Aerosol Radiative Forcing of Climate Change. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000665	6.1	165
249	Iceland is an episodic source of atmospheric ice-nucleating particles relevant for mixed-phase clouds. <i>Science Advances</i> , 2020 , 6, eaba8137	14.3	19
248	The Evaluation of the North Atlantic Climate System in UKESM1 Historical Simulations for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002126	7.1	4
247	Comparing the impact of environmental conditions and microphysics on the forecast uncertainty of deep convective clouds and hail. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2201-2219	6.8	10
246	The hemispheric contrast in cloud microphysical properties constrains aerosol forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18998-19006	11.5	20
245	The Met Office Unified Model Global Atmosphere 7.0/7.1 and JULES Global Land 7.0 configurations. <i>Geoscientific Model Development</i> , 2019 , 12, 1909-1963	6.3	211
244	Exploring How Eruption Source Parameters Affect Volcanic Radiative Forcing Using Statistical Emulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 964-985	4.4	20
243	The Impact of Changes in Cloud Water pH on Aerosol Radiative Forcing. <i>Geophysical Research Letters</i> , 2019 , 46, 4039-4048	4.9	17
242	Overview of the Antarctic Circumnavigation Expedition: Study of Preindustrial-like Aerosols and Their Climate Effects (ACE-SPACE). <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2260-2283	6.1	35
241	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8591-8617	6.8	31

240	Ensembles of Global Climate Model Variants Designed for the Quantification and Constraint of Uncertainty in Aerosols and Their Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3728-3754	7.1	21
239	An emulator approach to stratocumulus susceptibility. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10195-10203	6.8	15
238	In situ constraints on the vertical distribution of global aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11765-11790	7.1	213
237	UKESM1: Description and Evaluation of the U.K. Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4513-4558		1
236	Enhanced growth rate of atmospheric particles from sulfuric acid 2019 ,		
235	Strong control of Southern Ocean cloud reflectivity by ice-nucleating particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2687-2692	11.5	99
234	Impact on short-lived climate forcers increases projected warming due to deforestation. <i>Nature Communications</i> , 2018 , 9, 157	17.4	54
233	Is Black Carbon an Unimportant Ice-Nucleating Particle in Mixed-Phase Clouds?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4273-4283	4.4	27
232	Multi-model comparison of the volcanic sulfate deposition from the 1815 eruption of Mt. Tambora. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2307-2328	6.8	31
231	Reassessment of pre-industrial fire emissions strongly affects anthropogenic aerosol forcing. <i>Nature Communications</i> , 2018 , 9, 3182	17.4	47
230	Climate Models Are Uncertain, but We Can Do Something About It. <i>Eos</i> , 2018 , 99,	1.5	19
229	Using Emulators to Understand the Sensitivity of Deep Convective Clouds and Hail to Environmental Conditions. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 3103	7.1	9
228	Comments on Rethinking the Lower Bound on Aerosol Radiative Forcing. <i>Journal of Climate</i> , 2018 , 31, 9407-9412	4.4	15
227	Aerosol and physical atmosphere model parameters are both important sources of uncertainty in aerosol ERF. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9975-10006	6.8	57
226	Recent multivariate changes in the North Atlantic climate system, with a focus on 2005-2016. <i>International Journal of Climatology</i> , 2018 , 38, 5050-5076	3.5	20
225	The importance of comprehensive parameter sampling and multiple observations for robust constraint of aerosol radiative forcing 2018 ,		2
224	Aerosol and physical atmosphere model parameters are both important sources of uncertainty in aerosol ERF 2018 ,		2
223	Large simulated radiative effects of smoke in the south-east Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15261-15289	6.8	42

222	Ice-nucleating ability of aerosol particles and possible sources at three coastal marine sites. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15669-15685	6.8	29
221	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018 , 4, eaau5363	14.3	105
220	The Effect of Atmospheric Acid Processing on the Global Deposition of Bioavailable Phosphorus From Dust. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 1367-1385	5.9	11
219	The importance of comprehensive parameter sampling and multiple observations for robust constraint of aerosol radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13031-13053	6.8	15
218	A model intercomparison of CCN-limited tenuous clouds in the high Arctic. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11041-11071	6.8	38
217	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
216	Strong constraints on aerosol-cloud interactions from volcanic eruptions. <i>Nature</i> , 2017 , 546, 485-491	50.4	133
215	Impact on short-lived climate forcers (SLCFs) from a realistic land-use change scenario via changes in biogenic emissions. <i>Faraday Discussions</i> , 2017 , 200, 101-120	3.6	5
214	Collocated observations of cloud condensation nuclei, particle size distributions, and chemical composition. <i>Scientific Data</i> , 2017 , 4, 170003	8.2	27
213	Causes and importance of new particle formation in the present-day and preindustrial atmospheres. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8739-8760	4.4	119
212	Aerosols in the Pre-industrial Atmosphere. <i>Current Climate Change Reports</i> , 2017 , 3, 1-15	9	65
211	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3637-3658	6.8	107
210	Spatial and temporal CCN variations in convection-permitting aerosol microphysics simulations in an idealised marine tropical domain. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3371-3384	6.8	5
209	Size-resolved simulations of the aerosol inorganic composition with the new hybrid dissolution solver HyDiS-1.0 [Description, evaluation and first global modelling results 2016 ,		3
208	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations 2016 ,		2
207	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016 , 354, 1119-1124	33.3	207
206	The effect of acid-base clustering and ions on the growth of atmospheric nano-particles. <i>Nature Communications</i> , 2016 , 7, 11594	17.4	88
205	On the relationship between aerosol model uncertainty and radiative forcing uncertainty. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5820-7	11.5	53

204	New approaches to quantifying aerosol influence on the cloud radiative effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5812-9	11.5	45
203	Selective environmental stress from sulphur emitted by continental flood basalt eruptions. <i>Nature Geoscience</i> , 2016 , 9, 77-82	18.3	82
202	Spatial and Temporal Variations in Aerosol Properties in High-Resolution Convection-Permitting Simulations in an Idealized Tropical Marine Domain. <i>Springer Proceedings in Complexity</i> , 2016 , 61-64	0.3	
201	Size-resolved simulations of the aerosol inorganic composition with the new hybrid dissolution solver HyDiS-1.0: description, evaluation and first global modelling results. <i>Geoscientific Model Development</i> , 2016 , 9, 3875-3906	6.3	8
200	Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1752-1775	4.4	80
199	The impact of European legislative and technology measures to reduce air pollutants on air quality, human health and climate. <i>Environmental Research Letters</i> , 2016 , 11, 024010	6.2	30
198	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,377	4.4	54
197	Understanding the nature of atmospheric acid processing of mineral dusts in supplying bioavailable phosphorus to the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14639-14644	11.5	47
196	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , 2016 , 533, 527-31	50.4	388
195	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016 , 533, 521-6	50.4	377
194	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
193	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12053-12058	11.5	79
192	A marine biogenic source of atmospheric ice-nucleating particles. <i>Nature</i> , 2015 , 525, 234-8	50.4	348
191	Suppression of CCN formation by bromine chemistry in the remote marine atmosphere. <i>Atmospheric Science Letters</i> , 2015 , 16, 141-147	2.4	3
190	Evaluating uncertainty in convective cloud microphysics using statistical emulation. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 162-187	7.1	47
189	Precipitation sensitivity to autoconversion rate in a numerical weather-prediction model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 2032-2044	6.4	8
188	Quantifying sources of inter-model diversity in the cloud albedo effect. <i>Geophysical Research Letters</i> , 2015 , 42, 1568-1575	4.9	53
187	Experimental investigation of ion-ion recombination under atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7203-7216	6.8	33

186	Particulate matter, air quality and climate: lessons learned and future needs. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8217-8299	6.8	462
185	Modelled and observed changes in aerosols and surface solar radiation over Europe between 1960 and 2009. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9477-9500	6.8	51
184	Impact of gas-to-particle partitioning approaches on the simulated radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12989-13001	6.8	28
183	The Climatic Importance of Uncertainties in Regional Aerosol-Cloud Radiative Forcings over Recent Decades. <i>Journal of Climate</i> , 2015 , 28, 6589-6607	4.4	16
182	Oxidation products of biogenic emissions contribute to nucleation of atmospheric particles. <i>Science</i> , 2014 , 344, 717-21	33.3	375
181	Neutral molecular cluster formation of sulfuric acid-dimethylamine observed in real time under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15019-24	11.5	155
180	Assessing hazards to aviation from sulfur dioxide emitted by explosive Icelandic eruptions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,180-14,196	4.4	16
179	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10845-10895	6.8	280
178	The complex response of Arctic aerosol to sea-ice retreat. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7543-7557	6.8	67
177	Aerosol microphysics simulations of the Mt.~Pinatubo eruption with the UM-UKCA composition-climate model. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11221-11246	6.8	48
176	An AeroCom assessment of black carbon in Arctic snow and sea ice. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2399-2417	6.8	71
175	The direct and indirect radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 447-470	6.8	146
174	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4679-4713	6.8	114
173	Uncertainty in the magnitude of aerosol-cloud radiative forcing over recent decades. <i>Geophysical Research Letters</i> , 2014 , 41, 9040-9049	4.9	38
172	Occurrence of pristine aerosol environments on a polluted planet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18466-71	11.5	90
171	The production of warm rain in shallow maritime cumulus clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 20-31	6.4	16
170	Large contribution of natural aerosols to uncertainty in indirect forcing. <i>Nature</i> , 2013 , 503, 67-71	50.4	614
169	Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere. <i>Nature</i> , 2013 , 502, 359-63	50.4	585

168	The magnitude and sources of uncertainty in global aerosol. <i>Faraday Discussions</i> , 2013 , 165, 495-512	3.6	25
167	The importance of feldspar for ice nucleation by mineral dust in mixed-phase clouds. <i>Nature</i> , 2013 , 498, 355-8	50.4	446
166	A simple model of global aerosol indirect effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6688-6707	4.4	47
165	Role of organics in particle nucleation: From the lab to global model 2013 ,		1
164	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17223-8	11.5	249
163	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
162	Sensitivity of cloud condensation nuclei to regional changes in dimethyl-sulphide emissions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2723-2733	6.8	65
161	Corrigendum to "The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei" published in <i>Atmos. Chem. Phys.</i> , 13, 8879-8914, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9375-9377	6.8	2
160	Boundary layer nucleation as a source of new CCN in savannah environment. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1957-1972	6.8	30
159	Impact of the modal aerosol scheme GLOMAP-mode on aerosol forcing in the Hadley Centre Global Environmental Model. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3027-3044	6.8	84
158	The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8879-8914	6.8	172
157	Natural aerosol direct and indirect radiative effects. <i>Geophysical Research Letters</i> , 2013 , 40, 3297-3301	4.9	127
156	Impact of future Arctic shipping on high-latitude black carbon deposition. <i>Geophysical Research Letters</i> , 2013 , 40, 4459-4463	4.9	34
155	Impacts on iron solubility in the mineral dust by processes in the source region and the atmosphere: A review. <i>Aeolian Research</i> , 2012 , 5, 21-42	3.9	180
154	No statistically significant effect of a short-term decrease in the nucleation rate on atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11573-11587	6.8	17
153	A multi-model assessment of the impact of sea spray geoengineering on cloud droplet number. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11647-11663	6.8	16
152	Intercomparison of modal and sectional aerosol microphysics representations within the same 3-D global chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4449-4476	6.8	83
151	The scavenging processes controlling the seasonal cycle in Arctic sulphate and black carbon aerosol. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6775-6798	6.8	150

150	Mapping the uncertainty in global CCN using emulation. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9739-9751	6.8	67
149	Importance of tropospheric volcanic aerosol for indirect radiative forcing of climate. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7321-7339	6.8	101
148	Influence of chemical weathering and aging of iron oxides on the potential iron solubility of Saharan dust during simulated atmospheric processing. <i>Global Biogeochemical Cycles</i> , 2011 , 25, n/a-n/a	5.9	77
147	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. <i>Nature</i> , 2011 , 476, 429-33	50.4	863
146	The Coupled Effect of Mid-Tropospheric Moisture and Aerosol Abundance on Deep Convective Cloud Dynamics and Microphysics. <i>Atmosphere</i> , 2011 , 2, 222-241	2.7	4
145	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12109-12136	6.8	349
144	Emulation of a complex global aerosol model to quantify sensitivity to uncertain parameters. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12253-12273	6.8	104
143	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
142	The response of precipitation to aerosol through riming and melting in deep convective clouds. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3495-3510	6.8	28
141	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
140	Modelling the effect of denitrification on polar ozone depletion for Arctic winter 2004/2005. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6559-6573	6.8	28
139	Large methane releases lead to strong aerosol forcing and reduced cloudiness. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6961-6969	6.8	10
138	Minor effect of physical size sorting on iron solubility of transported mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8459-8469	6.8	34
137	Iron dissolution kinetics of mineral dust at low pH during simulated atmospheric processing. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 995-1007	6.8	100
136	Global cloud condensation nuclei influenced by carbonaceous combustion aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9067-9087	6.8	164
135	Excess mortality in Europe following a future Laki-style Icelandic eruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15710-5	11.5	78
134	Description and evaluation of GLOMAP-mode: a modal global aerosol microphysics model for the UKCA composition-climate model. <i>Geoscientific Model Development</i> , 2010 , 3, 519-551	6.3	320
133	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4775-4793	6.8	167

132	Evidence for the role of organics in aerosol particle formation under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6646-51	11.5	341
131	Impact of BrO on dimethylsulfide in the remote marine boundary layer. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	68
130	Aerosol climate feedback due to decadal increases in Southern Hemisphere wind speeds. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	59
129	The impact of the 1783–1784 AD Laki eruption on global aerosol formation processes and cloud condensation nuclei. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6025-6041	6.8	54
128	A review of natural aerosol interactions and feedbacks within the Earth system. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1701-1737	6.8	409
127	Enhancement of marine cloud albedo via controlled sea spray injections: a global model study of the influence of emission rates, microphysics and transport. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4133-4143	6.8	56
126	Effects of boundary layer particle formation on cloud droplet number and changes in cloud albedo from 1850 to 2000. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 695-705	6.8	56
125	Low sensitivity of cloud condensation nuclei to changes in the sea-air flux of dimethyl-sulphide. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7545-7559	6.8	82
124	Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1635-1647	6.8	78
123	The impact of dust on sulfate aerosol, CN and CCN during an East Asian dust storm. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 365-382	6.8	86
122	Atmospheric composition change [g]lobal and regional air quality. <i>Atmospheric Environment</i> , 2009 , 43, 5268-5350	5.3	592
121	Atmospheric physics: Cosmic rays, clouds and climate. <i>Nature</i> , 2009 , 460, 332-3	50.4	26
120	Corrigendum to ‘Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – Integrating aerosol research from nano to global scales’ published in <i>Atmos. Chem. Phys.</i> , 9, 2825–2841, 2009. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3443-3444	6.8	2
119	Impact of nucleation on global CCN. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8601-8616	6.8	568
118	Introduction: 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> , 2009 , 9, 2825-2841	6.8	170
117	Variable CCN formation potential of regional sulfur emissions. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3253-3259	6.8	17
116	The relationship between aerosol and cloud drop number concentrations in a global aerosol microphysics model. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4131-4144	6.8	59
115	New Directions: The impact of oceanic iron fertilisation on cloud condensation nuclei. <i>Atmospheric Environment</i> , 2008 , 42, 5728-5730	5.3	30

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