Ulrike Lohmann

List of Publications by Year
in descending order

323 papers	33,724 citations	6250 80 h-index	5820 161 g-index
472 all docs	472 docs citations	472 times ranked	17043 citing authors

#	Article	IF	Citations
1	The sulfate-CCN-cloud albedo effect: A sensitivity study with two general circulation models. Tellus, Series B: Chemical and Physical Meteorology, 2022, 47, 281.	0.8	196
2	Vertical distributions of sulfur species simulated by large scale atmospheric models in COSAM: Comparison with observations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 646.	0.8	5
3	Importance of submicron surface-active organic aerosols for pristine Arctic clouds. Tellus, Series B: Chemical and Physical Meteorology, 2022, 57, 261.	0.8	43
4	A comparison of large-scale atmospheric sulphate aerosol models (COSAM): overview and highlights. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 615.	0.8	26
5	Aerosolâ€“cloudâ€“precipitation interactions during a Saharan dust eventÂâ€“ÂA summertime caseâ€study from the Alps. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 943-961.	1.0	4
6	Unveiling atmospheric transport and mixing mechanisms of ice-nucleating particles over the Alps. Atmospheric Chemistry and Physics, 2022, 22, 3111-3130.	1.9	7
7	The Global Atmosphereâ€aerosol Model ICONâ€Aâ€HAM2.3â€“Initial Model Evaluation and Effects of Radiation Balance Tuning on Aerosol Optical Thickness. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	6
8	Assessing the potential for simplification in global climate model cloud microphysics. Atmospheric Chemistry and Physics, 2022, 22, 4737-4762.	1.9	6
9	Enhanced Light Absorption and Radiative Forcing by Black Carbon Agglomerates. Environmental Science & Technology, 2022, 56, 8610-8618.	4.6	21
10	Continuous secondary-ice production initiated by updrafts through the melting layer in mountainous regions. Atmospheric Chemistry and Physics, 2021, 21, 3855-3870.	1.9	17
11	How frequent is natural cloud seeding from ice cloud layers (â€‰<â€‰â^'35â€‰Â°C) over Switzerland?. Atmospheric Chemistry and Physics, 2021, 21, 5195-5216.	1.9	12
12	Influence of low-level blocking and turbulence on the microphysics of a mixed-phase cloud in an inner-Alpine valley. Atmospheric Chemistry and Physics, 2021, 21, 5151-5172.	1.9	11
13	Microphysical investigation of the seeder and feeder region of an Alpine mixed-phase cloud. Atmospheric Chemistry and Physics, 2021, 21, 6681-6706.	1.9	22
14	On the drivers of droplet variability in alpine mixed-phase clouds. Atmospheric Chemistry and Physics, 2021, 21, 10993-11012.	1.9	10
15	Vertical grid refinement for stratocumulus clouds in the radiation scheme of the global climate model ECHAM6.3-HAM2.3-P3. Geoscientific Model Development, 2021, 14, 5413-5434.	1.3	2
16	Sensitivity of precipitation formation to secondary ice production in winter orographic mixed-phase clouds. Atmospheric Chemistry and Physics, 2021, 21, 15115-15134.	1.9	7
17	The Impact of Cloud Processing on the Ice Nucleation Abilities of Soot Particles at Cirrus Temperatures. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030922.	1.2	45
18	Bounding Global Aerosol Radiative Forcing of Climate Change. Reviews of Geophysics, 2020, 58, e2019RG000660.	9.0	424

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19	Future warming exacerbated by aged-soot effect on cloud formation. Nature Geoscience, 2020, 13, 674-680.	5.4	44
20	Developing a Cloud Scheme With Prognostic Cloud Fraction and Two Moment Microphysics for ECHAMâ€HAM. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001824.	1.3	17
21	Reducing the aerosol forcing uncertainty using observational constraints on warm rain processes. Science Advances, 2020, 6, eaaz6433.	4.7	33
22	Evaluation of aerosol and cloud properties in three climate models using MODIS observations and its corresponding COSP simulator, as well as their application in aerosolâ€“cloud interactions. Atmospheric Chemistry and Physics, 2020, 20, 1607-1626.	1.9	12
23	Using a holographic imager on a tethered balloon system for microphysical observations of boundary layer clouds. Atmospheric Measurement Techniques, 2020, 13, 925-939.	1.2	25
24	Coupling aerosols to (cirrus) clouds in the global EMAC-MADE3 aerosolâ€“climate model. Geoscientific Model Development, 2020, 13, 1635-1661.	1.3	19
25	Aging induced changes in ice nucleation activity of combustion aerosol as determined by near edge X-ray absorption fine structure (NEXAFS) spectroscopy. Environmental Sciences: Processes and Impacts, 2020, 22, 895-907.	1.7	16
26	To what extent can cirrus cloud seeding counteract global warming?. Environmental Research Letters, 2020, 15, 054002.	2.2	22
27	When Does the Saharan Air Layer Impede the Intensification of Tropical Cyclones?. Journal of Climate, 2020, 33, 10609-10626.	1.2	6
28	The Impact of Warm and Moist Airmass Perturbations on Arctic Mixed-Phase Stratocumulus. Journal of Climate, 2020, 33, 9615-9628.	1.2	4
29	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	1.9	30
30	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. Atmospheric Chemistry and Physics, 2019, 19, 8591-8617.	1.9	60
31	Ice nucleation properties of K-feldspar polymorphs and plagioclase feldspars. Atmospheric Chemistry and Physics, 2019, 19, 10901-10918.	1.9	21
32	The global aerosolâ€“climate model ECHAM6.3â€“HAM2.3 â€“ Part 2: Cloud evaluation, aerosol radiative forcing, and climate sensitivity. Geoscientific Model Development, 2019, 12, 3609-3639.	1.3	44
33	Elucidating ice formation pathways in the aerosolâ€“climate model ECHAM6-HAM2. Atmospheric Chemistry and Physics, 2019, 19, 9061-9080.	1.9	16
34	Response of Arctic mixed-phase clouds to aerosol perturbations under different surface forcings. Atmospheric Chemistry and Physics, 2019, 19, 9847-9864.	1.9	26
35	100 Years of Progress in Cloud Physics, Aerosols, and Aerosol Chemistry Research. Meteorological Monographs, 2019, 59, 11.1-11.72.	5.0	35
36	Estimation of Atlantic Tropical Cyclone Rainfall Frequency in the United States. Journal of Applied Meteorology and Climatology, 2019, 58, 1853-1866.	0.6	32

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37	The Impact of Mesoscale Gravity Waves on Homogeneous Ice Nucleation in Cirrus Clouds. Geophysical Research Letters, 2019, 46, 5556-5565.	1.5	15
38	Anthropogenic aerosol forcing â€“ insights from multiple estimates from aerosol-climate models with reduced complexity. Atmospheric Chemistry and Physics, 2019, 19, 6821-6841.	1.9	33
39	The global aerosolâ€“climate model ECHAM6.3â€“HAM2.3 â€“ Part 1: Aerosol evaluation. Geoscientific Model Development, 2019, 12, 1643-1677.	1.3	103
40	Pore condensation and freezing is responsible for ice formation below water saturation for porous particles. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8184-8189.	3.3	113
41	Heterogeneous ice nucleation on dust particles sourced from nine deserts worldwide â€“ Part 2: Deposition nucleation and condensation freezing. Atmospheric Chemistry and Physics, 2019, 19, 1059-1076.	1.9	23
42	Impact of isolated atmospheric aging processes on the cloud condensation nuclei activation of soot particles. Atmospheric Chemistry and Physics, 2019, 19, 15545-15567.	1.9	6
43	Cloud Ice Processes Enhance Spatial Scales of Organization in Arctic Stratocumulus. Geophysical Research Letters, 2019, 46, 14109-14117.	1.5	10
44	Unanticipated Side Effects of Stratospheric Albedo Modification Proposals Due to Aerosol Composition and Phase. Scientific Reports, 2019, 9, 18825.	1.6	5
45	Effects of land use and anthropogenic aerosol emissions in the Roman Empire. Climate of the Past, 2019, 15, 1885-1911.	1.3	9
46	Precipitation Susceptibility and Aerosol Buffering of Warm- and Mixed-Phase Orographic Clouds in Idealized Simulations. Journals of the Atmospheric Sciences, 2018, 75, 1173-1194.	0.6	12
47	Cirrus Cloud Properties as Seen by the CALIPSO Satellite and ECHAM-HAM Global Climate Model. Journal of Climate, 2018, 31, 1983-2003.	1.2	31
48	Prognostic parameterization of cloud ice with a single category in the aerosol-climate model ECHAM(v6.3.0)-HAM(v2.3). Geoscientific Model Development, 2018, 11, 1557-1576.	1.3	19
49	How important are future marine and shipping aerosol emissions in a warming Arctic summer and autumn?. Atmospheric Chemistry and Physics, 2018, 18, 10521-10555.	1.9	28
50	The chemistryâ€“climate model ECHAM6.3-HAM2.3-MOZ1.0. Geoscientific Model Development, 2018, 11, 1695-1723.	1.3	51
51	Additional global climate cooling by clouds due to ice crystal complexity. Atmospheric Chemistry and Physics, 2018, 18, 15767-15781.	1.9	37
52	The importance of mixed-phase and ice clouds for climate sensitivity in the global aerosolâ€“climate model ECHAM6-HAM2. Atmospheric Chemistry and Physics, 2018, 18, 8807-8828.	1.9	47
53	A Modeling Study on the Sensitivities of Atmospheric Charge Separation According to the Relative Diffusional Growth Rate Theory to Nonspherical Hydrometeors and Cloud Microphysics. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,236-12,252.	1.2	2
54	SALSA2.0: The sectional aerosol module of the aerosolâ€“chemistryâ€“climate model ECHAM6.3.0-HAM2.3-MOZ1.0. Geoscientific Model Development, 2018, 11, 3833-3863.	1.3	52

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55	Ice nucleation abilities of soot particles determined with the Horizontal Ice Nucleation Chamber. Atmospheric Chemistry and Physics, 2018, 18, 13363-13392.	1.9	67
56	A model intercomparison of CCN-limited tenuous clouds in the high Arctic. Atmospheric Chemistry and Physics, 2018, 18, 11041-11071.	1.9	54
57	Implementing microscopic charcoal particles into a global aerosolâ€“climate model. Atmospheric Chemistry and Physics, 2018, 18, 11813-11829.	1.9	10
58	Global relevance of marine organic aerosol as ice nucleating particles. Atmospheric Chemistry and Physics, 2018, 18, 11423-11445.	1.9	29
59	Background Freeâ€Tropospheric Ice Nucleating Particle Concentrations at Mixedâ€Phase Cloud Conditions. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,506.	1.2	24
60	Impact of surface and near-surface processes on ice crystal concentrations measured at mountain-top research stations. Atmospheric Chemistry and Physics, 2018, 18, 8909-8927.	1.9	25
61	Marine and Terrestrial Organic Iceâ€Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6196-6212.	1.2	98
62	Why does knowledge of past aerosol forcing matter for future climate change?. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5021-5023.	1.2	13
63	Anthropogenic Aerosol Influences on Mixed-Phase Clouds. Current Climate Change Reports, 2017, 3, 32-44.	2.8	39
64	Constraining the instantaneous aerosol influence on cloud albedo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4899-4904.	3.3	77
65	A cirrus cloud climate dial?. Science, 2017, 357, 248-249.	6.0	65
66	Cirrus Clouds. Meteorological Monographs, 2017, 58, 2.1-2.26.	5.0	94
67	Formation and Development of Orographic Mixed-Phase Clouds. Journals of the Atmospheric Sciences, 2017, 74, 3703-3724.	0.6	18
68	Mixed-Phase Clouds: Progress and Challenges. Meteorological Monographs, 2017, 58, 5.1-5.50.	5.0	165
69	Cloud response and feedback processes in stratiform mixedâ€phase clouds perturbed by ship exhaust. Geophysical Research Letters, 2017, 44, 1964-1972.	1.5	44
70	The Horizontal Ice Nucleation Chamber (HINC): INP measurements at conditions relevant for mixed-phase clouds at the High Altitude Research Station Jungfraujoch. Atmospheric Chemistry and Physics, 2017, 17, 15199-15224.	1.9	41
71	Unveiling aerosolâ€“cloud interactions â€“ Part 2: Minimising the effects of aerosol swelling and wet scavenging in ECHAM6-HAM2 for comparison to satellite data. Atmospheric Chemistry and Physics, 2017, 17, 13165-13185.	1.9	19
72	Classical nucleation theory of immersion freezing: sensitivity of contact angle schemes to thermodynamic and kinetic parameters. Atmospheric Chemistry and Physics, 2017, 17, 1713-1739.	1.9	28

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73	Is increasing ice crystal sedimentation velocity in geoengineering simulations a good proxy for cirrus cloud seeding?. Atmospheric Chemistry and Physics, 2017, 17, 4871-4885.	1.9	23
74	Effect of anthropogenic aerosol emissions on precipitation in warm conveyor belts in the western North Pacific in winter â€“ a model study with ECHAM6-HAM. Atmospheric Chemistry and Physics, 2017, 17, 6243-6255.	1.9	12
75	Impact of Saharan dust on North Atlantic marine stratocumulus clouds: importance of the semidirect effect. Atmospheric Chemistry and Physics, 2017, 17, 6305-6322.	1.9	29
76	A comparison of two chemistry and aerosol schemes on the regional scale and the resulting impact on radiative properties and liquid- and ice-phase aerosolâ€“cloud interactions. Atmospheric Chemistry and Physics, 2017, 17, 8651-8680.	1.9	11
77	Understanding the drivers of marine liquid-water cloud occurrence and properties with global observations using neural networks. Atmospheric Chemistry and Physics, 2017, 17, 9535-9546.	1.9	43
78	HoloGondel: in situ cloud observations on a cable car in the Swiss Alps using a holographic imager. Atmospheric Measurement Techniques, 2017, 10, 459-476.	1.2	27
79	The SPectrometer for Ice Nuclei (SPIN): an instrument to investigate ice nucleation. Atmospheric Measurement Techniques, 2016, 9, 2781-2795.	1.2	56
80	Constraining Precipitation Susceptibility of Warm-, Ice-, and Mixed-Phase Clouds with Microphysical Equations. Journals of the Atmospheric Sciences, 2016, 73, 5003-5023.	0.6	21
81	Immersion mode ice nucleation measurements with the new Portable Immersion Mode Cooling chAmber (PIMCA). Journal of Geophysical Research D: Atmospheres, 2016, 121, 4713-4733.	1.2	15
82	The resolution dependence of cloud effects and shipâ€induced aerosolâ€cloud interactions in marine stratocumulus. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4810-4829.	1.2	17
83	Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7254-7283.	1.2	80
84	Ice Nucleating Particle Measurements at 241 K during Winter Months at 3580 m MSL in the Swiss Alps. Journals of the Atmospheric Sciences, 2016, 73, 2203-2228.	0.6	59
85	Chemical characterization of freshly emitted particulate matter from aircraft exhaust using single particle mass spectrometry. Atmospheric Environment, 2016, 134, 181-197.	1.9	32
86	Why cirrus cloud seeding cannot substantially cool the planet. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4877-4893.	1.2	57
87	Heterogeneous ice nucleation on dust particles sourced from nineÂdeserts worldwide â€“ Part 1: Immersion freezing. Atmospheric Chemistry and Physics, 2016, 16, 15075-15095.	1.9	97
88	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. Atmospheric Chemistry and Physics, 2016, 16, 2765-2783.	1.9	67
89	Ice nucleating particles in the Saharan Air Layer. Atmospheric Chemistry and Physics, 2016, 16, 9067-9087.	1.9	93
90	Comparing contact and immersion freezing from continuous flow diffusion chambers. Atmospheric Chemistry and Physics, 2016, 16, 8899-8914.	1.9	24

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91	Ice nucleation efficiency of AgI: review and new insights. Atmospheric Chemistry and Physics, 2016, 16, 8915-8937.	1.9	100
92	Persistence of orographic mixedâ€phase clouds. Geophysical Research Letters, 2016, 43, 10,512.	1.5	33
93	A Blue-Sky Approach to Understanding Cloud Formation. Bulletin of the American Meteorological Society, 2016, 97, 1797-1802.	1.7	14
94	Tropical Temperature and Precipitation Responses to Large Volcanic Eruptions: Observations and AMIP5 Simulations. Journal of Climate, 2016, 29, 1325-1338.	1.2	3
95	Disentangling greenhouse warming and aerosol cooling to reveal Earthâ€™s climate sensitivity. Nature Geoscience, 2016, 9, 286-289.	5.4	86
96	Challenges in constraining anthropogenic aerosol effects on cloud radiative forcing using present-day spatiotemporal variability. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5804-5811.	3.3	120
97	Did the 2011 Nabro eruption affect the optical properties of ice clouds?. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9500-9513.	1.2	5
98	The influence of absorbed solar radiation by Saharan dust on hurricane genesis. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1902-1917.	1.2	27
99	Black carbon surface oxidation and organic composition of beech-wood soot aerosols. Atmospheric Chemistry and Physics, 2015, 15, 11885-11907.	1.9	34
100	Particulate matter, air quality and climate: lessons learned and future needs. Atmospheric Chemistry and Physics, 2015, 15, 8217-8299.	1.9	641
101	Prognostic precipitation with three liquid water classes in the ECHAM5â€“HAM GCM. Atmospheric Chemistry and Physics, 2015, 15, 8717-8738.	1.9	24
102	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. Atmospheric Chemistry and Physics, 2015, 15, 12211-12229.	1.9	58
103	Sensitivity estimations for cloud droplet formation in the vicinity of the high-alpine research station Jungfraujoch (3580 m a.s.l.). Atmospheric Chemistry and Physics, 2015, 15, 10309-10323.	1.9	14
104	Comparison of measured and calculated collision efficiencies at low temperatures. Atmospheric Chemistry and Physics, 2015, 15, 13759-13776.	1.9	9
105	Real-case simulations of aerosolâ€“cloud interactions in ship tracks over the Bay of Biscay. Atmospheric Chemistry and Physics, 2015, 15, 2185-2201.	1.9	13
106	Microphysical processing of aerosol particles in orographic clouds. Atmospheric Chemistry and Physics, 2015, 15, 9217-9236.	1.9	8
107	Peak-fitting and integration imprecision in the Aerodyne aerosol mass spectrometer: effects of mass accuracy on location-constrained fits. Atmospheric Measurement Techniques, 2015, 8, 4615-4636.	1.2	20
108	AEROSOLS | Aerosolâ€“Cloud Interactions and Their Radiative Forcing. , 2015, , 17-22.		12

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109	Effective density and massâ€“mobility exponents of particulate matter in aircraft turbine exhaust: Dependence on engine thrust and particle size. Journal of Aerosol Science, 2015, 88, 135-147.	1.8	33
110	Organic Emissions from a Wood Stove and a Pellet Stove Before and After Simulated Atmospheric Aging. Aerosol Science and Technology, 2015, 49, 1037-1050.	1.5	31
111	Classical nucleation theory of homogeneous freezing of water: thermodynamic and kinetic parameters. Physical Chemistry Chemical Physics, 2015, 17, 5514-5537.	1.3	151
112	A Case Study in Modeling Low-Lying Inversions and Stratocumulus Cloud Cover in the Bay of Biscay. Weather and Forecasting, 2014, 29, 289-304.	0.5	12
113	Intercomparison of the cloud water phase among global climate models. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3372-3400.	1.2	126
114	Exploring the Mechanisms of Ice Nucleation on Kaolinite: From Deposition Nucleation to Condensation Freezing. Journals of the Atmospheric Sciences, 2014, 71, 16-36.	0.6	51
115	Online coupled regional meteorology chemistry models in Europe: current status and prospects. Atmospheric Chemistry and Physics, 2014, 14, 317-398.	1.9	271
116	Impact of the representation of marine stratocumulus clouds on the anthropogenic aerosol effect. Atmospheric Chemistry and Physics, 2014, 14, 11997-12022.	1.9	52
117	Mass spectrometry of refractory black carbon particles from six sources: carbon-cluster and oxygenated ions. Atmospheric Chemistry and Physics, 2014, 14, 2591-2603.	1.9	59
118	Single-particle characterization of the high-Arctic summertime aerosol. Atmospheric Chemistry and Physics, 2014, 14, 7409-7430.	1.9	23
119	Technical Note: On the use of nudging for aerosolâ€“climate model intercomparison studies. Atmospheric Chemistry and Physics, 2014, 14, 8631-8645.	1.9	143
120	Dust ice nuclei effects on cirrus clouds. Atmospheric Chemistry and Physics, 2014, 14, 3027-3046.	1.9	77
121	Hygroscopic properties of fresh and aged wood burning particles. Journal of Aerosol Science, 2013, 56, 15-29.	1.8	78
122	Fire in the Air: Biomass Burning Impacts in a Changing Climate. Critical Reviews in Environmental Science and Technology, 2013, 43, 40-83.	6.6	125
123	Bounding the role of black carbon in the climate system: A scientific assessment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5380-5552.	1.2	4,319
124	Energy budget constraints on climate response. Nature Geoscience, 2013, 6, 415-416.	5.4	270
125	Dust ice nuclei effects on cirrus clouds in ECHAM5-HAM. , 2013, , .		0
126	Inter-comparison of the phase partitioning of cloud water among global climate models. , 2013, , .		1

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127	Heterogeneous ice nucleation of mineral dust particles exposed to ozone. , 2013, , .		1
128	HOLIMO II: a digital holographic instrument for ground-based in situ observations of microphysical properties of mixed-phase clouds. Atmospheric Measurement Techniques, 2013, 6, 2975-2987.	1.2	56
129	Performance of a Triclass Parameterization for the Collisionâ€“Coalescence Process in Shallow Clouds. Journals of the Atmospheric Sciences, 2013, 70, 1744-1767.	0.6	14
130	Modelling the impact of fungal spore ice nuclei on clouds and precipitation. Environmental Research Letters, 2013, 8, 014029.	2.2	55
131	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. Journal of Advances in Modeling Earth Systems, 2013, 5, 826-842.	1.3	140
132	Atmospheric component of the MPIâ€M Earth System Model: ECHAM6. Journal of Advances in Modeling Earth Systems, 2013, 5, 146-172.	1.3	1,044
133	Contact freezing: a review of experimental studies. Atmospheric Chemistry and Physics, 2013, 13, 9745-9769.	1.9	100
134	Effect of photochemical ageing on the ice nucleation properties of diesel and wood burning particles. Atmospheric Chemistry and Physics, 2013, 13, 761-772.	1.9	50
135	Laboratory studies of immersion and deposition mode ice nucleation of ozone aged mineral dust particles. Atmospheric Chemistry and Physics, 2013, 13, 9097-9118.	1.9	77
136	Microphysical and radiative changes in cirrus clouds by geoengineering the stratosphere. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4533-4548.	1.2	24
137	Evaluating the suitability of the SWAN/COSMO-2 model system to simulate short-crested surface waves for a narrow lake with complex bathymetry. Meteorologische Zeitschrift, 2013, 22, 257-272.	0.5	7
138	Bacteria in the ECHAM5-HAM global climate model. Atmospheric Chemistry and Physics, 2012, 12, 8645-8661.	1.9	76
139	Uncertainty associated with convective wet removal of entrained aerosols in a global climate model. Atmospheric Chemistry and Physics, 2012, 12, 10725-10748.	1.9	43
140	The global aerosol-climate model ECHAM-HAM, version 2: sensitivity to improvements in process representations. Atmospheric Chemistry and Physics, 2012, 12, 8911-8949.	1.9	319
141	Time dependence of immersion freezing: an experimental study on size selected kaolinite particles. Atmospheric Chemistry and Physics, 2012, 12, 9893-9907.	1.9	105
142	Effects of stratospheric sulfate aerosol geoâ€engineering on cirrus clouds. Geophysical Research Letters, 2012, 39, .	1.5	61
143	The presentâ€day decadal solar cycle modulation of Earth's radiative forcing via charged H₂SO₄/H₂O aerosol nucleation. Geophysical Research Letters, 2012, 39, .	1.5	26
144	Climate impacts of ice nucleation. Journal of Geophysical Research, 2012, 117, .	3.3	118

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145	Implementation and evaluation of aerosol and cloud microphysics in a regional climate model. Journal of Geophysical Research, 2011, 116, .	3.3	43
146	Effects of ice nuclei on cirrus clouds in a global climate model. Journal of Geophysical Research, 2011, 116, .	3.3	83
147	Simulation of dimming and brightening in Europe from 1958 to 2001 using a regional climate model. Journal of Geophysical Research, 2011, 116, .	3.3	26
148	Contact freezing experiments of kaolinite particles with cloud droplets. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	48
149	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
150	Ice nuclei properties within a Saharan dust event at the Jungfraujoch in the Swiss Alps. Atmospheric Chemistry and Physics, 2011, 11, 4725-4738.	1.9	128
151	Soot microphysical effects on liquid clouds, a multi-model investigation. Atmospheric Chemistry and Physics, 2011, 11, 1051-1064.	1.9	58
152	Cloud condensation nuclei closure study on summer arctic aerosol. Atmospheric Chemistry and Physics, 2011, 11, 11335-11350.	1.9	85
153	Intercomparison of aerosol climatologies for use in a regional climate model over Europe. Geophysical Research Letters, 2011, 38, .	1.5	25
154	Experimental Study of Collection Efficiencies between Submicron Aerosols and Cloud Droplets. Journals of the Atmospheric Sciences, 2011, 68, 1853-1864.	0.6	43
155	Improvement and Implementation of a Parameterization for Shallow Cumulus in the Global Climate Model ECHAM5-HAM. Journals of the Atmospheric Sciences, 2011, 68, 515-532.	0.6	12
156	Statistical Analysis of Aerosol Effects on Simulated Mixed-Phase Clouds and Precipitation in the Alps. Journals of the Atmospheric Sciences, 2011, 68, 1474-1492.	0.6	31
157	Single ice crystal measurements during nucleation experiments with the depolarization detector IODE. Atmospheric Chemistry and Physics, 2010, 10, 313-325.	1.9	43
158	Intercomparison of aerosol-cloud-precipitation interactions in stratiform orographic mixed-phase clouds. Atmospheric Chemistry and Physics, 2010, 10, 8173-8196.	1.9	54
159	Aerosol nucleation and its role for clouds and Earth's radiative forcing in the aerosol-climate model ECHAM5-HAM. Atmospheric Chemistry and Physics, 2010, 10, 10733-10752.	1.9	190
160	Impact of parametric uncertainties on the present-day climate and on the anthropogenic aerosol effect. Atmospheric Chemistry and Physics, 2010, 10, 11373-11383.	1.9	81
161	Diurnal variations of humidity and ice water content in the tropical upper troposphere. Atmospheric Chemistry and Physics, 2010, 10, 11519-11533.	1.9	28
162	Contributions from DMS and ship emissions to CCN observed over the summertime North Pacific. Atmospheric Chemistry and Physics, 2010, 10, 1287-1314.	1.9	37

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163	Influences of in-cloud aerosol scavenging parameterizations on aerosol concentrations and wet deposition in ECHAM5-HAM. Atmospheric Chemistry and Physics, 2010, 10, 1511-1543.	1.9	109
164	Total aerosol effect: radiative forcing or radiative flux perturbation?. Atmospheric Chemistry and Physics, 2010, 10, 3235-3246.	1.9	184
165	Interpreting the cloud cover â€“ aerosol optical depth relationship found in satellite data using a general circulation model. Atmospheric Chemistry and Physics, 2010, 10, 6129-6135.	1.9	169
166	Cloud albedo increase from carbonaceous aerosol. Atmospheric Chemistry and Physics, 2010, 10, 7669-7684.	1.9	33
167	The potential influence of Asian and African mineral dust on ice, mixed-phase and liquid water clouds. Atmospheric Chemistry and Physics, 2010, 10, 8649-8667.	1.9	77
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