Martina KrÃ¤mer

List of Publications by Year
in descending order

134 papers	6,141 citations	87888 38 h-index	95266 68 g-index
252 all docs	252 docs citations	252 times ranked	3852 citing authors

#	Article	IF	Citations
1	Quality assessment of MOZAIC and IAGOS capacitive hygrometers: insights from airborne field studies. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28320.	1.6	21
2	New investigations on homogeneous ice nucleation: the effects of water activity and water saturation formulations. Atmospheric Chemistry and Physics, 2022, 22, 65-91.	4.9	10
3	A case study on the impact of severe convective storms on the water vapor mixing ratio in the lower mid-latitude stratosphere observed in 2019 over Europe. Atmospheric Chemistry and Physics, 2022, 22, 1059-1079.	4.9	6
4	Persistence of moist plumes from overshooting convection in the Asian monsoon anticyclone. Atmospheric Chemistry and Physics, 2022, 22, 3169-3189.	4.9	16
5	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68Â°â€‰N. Atmospheric Chemistry and Physics, 2021, 21, 989-1013.	4.9	18
6	Observation of cirrus clouds with GLORIA during the WISE campaign: detection methods and cirrus characterization. Atmospheric Measurement Techniques, 2021, 14, 3153-3168.	3.1	5
7	High homogeneous freezing onsets of sulfuric acid aerosol at cirrus temperatures. Atmospheric Chemistry and Physics, 2021, 21, 14403-14425.	4.9	16
8	In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone â€“ Part 2: NPF inside ice clouds. Atmospheric Chemistry and Physics, 2021, 21, 13455-13481.	4.9	5
9	The Asian tropopause aerosol layer within the 2017 monsoon anticyclone: microphysical properties derived from aircraft-borne in situ measurements. Atmospheric Chemistry and Physics, 2021, 21, 15259-15282.	4.9	7
10	In Situ Measurements of Cirrus Clouds on a Global Scale. Atmosphere, 2021, 12, 41.	2.3	4
11	Impact of Convectively Detrained Ice Crystals on the Humidity of the Tropical Tropopause Layer in Boreal Winter. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032894.	3.3	9
12	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Measurement Techniques, 2020, 13, 661-684.	3.1	12
13	Coupling aerosols to (cirrus) clouds in the global EMAC-MADE3 aerosolâ€“climate model. Geoscientific Model Development, 2020, 13, 1635-1661.	3.6	19
14	Assessment of Observational Evidence for Direct Convective Hydration of the Lower Stratosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032793.	3.3	21
15	A microphysics guide to cirrus â€“ Part 2: Climatologies of clouds and humidity from observations. Atmospheric Chemistry and Physics, 2020, 20, 12569-12608.	4.9	80
16	Ice-supersaturated air masses in the northern mid-latitudes from regular in situ observations by passenger aircraft: vertical distribution, seasonality and tropospheric fingerprint. Atmospheric Chemistry and Physics, 2020, 20, 8157-8179.	4.9	19
17	Cirrus cloud shape detection by tomographic extinction retrievals from infrared limb emission sounder measurements. Atmospheric Measurement Techniques, 2020, 13, 7025-7045.	3.1	3
18	A Review of Ice Particle Shapes in Cirrus formed In Situ and in Anvils. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10049-10090.	3.3	54

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19	Convective hydration in the tropical tropopause layer during the StratoClim aircraft campaign: pathway of an observed hydration patch. Atmospheric Chemistry and Physics, 2019, 19, 11803-11820.	4.9	17
20	Mechanism of ozone loss under enhanced water vapour conditions in the mid-latitude lower stratosphere in summer. Atmospheric Chemistry and Physics, 2019, 19, 5805-5833.	4.9	24
21	On the Dependence of Cirrus Parametrizations on the Cloud Origin. Geophysical Research Letters, 2019, 46, 12565-12571.	4.0	5
22	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. Atmospheric Chemistry and Physics, 2018, 18, 921-961.	4.9	105
23	Simple Versus Complex Physical Representation of the Radiative Forcing From Linear Contrails: A Sensitivity Analysis. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2831-2840.	3.3	3
24	Water vapor increase in the lower stratosphere of the Northern Hemisphere due to the Asian monsoon anticyclone observed during the TACTS/ESMVal campaigns. Atmospheric Chemistry and Physics, 2018, 18, 2973-2983.	4.9	22
25	Intercomparison of midlatitude tropospheric and lower-stratospheric water vapor measurements and comparison to ECMWF humidity data. Atmospheric Chemistry and Physics, 2018, 18, 16729-16745.	4.9	25
26	Arctic ice clouds over northern Sweden: microphysical properties studied with the Balloon-borne Ice Cloud particle Imager B-ICI. Atmospheric Chemistry and Physics, 2018, 18, 17371-17386.	4.9	14
27	Implementation of a comprehensive ice crystal formation parameterization for cirrus and mixed-phase clouds in the EMAC model (based on MESSy 2.53). Geoscientific Model Development, 2018, 11, 4021-4041.	3.6	12
28	The impact of mineral dust on cloud formation during the Saharan dust event in AprilÂ2014 over Europe. Atmospheric Chemistry and Physics, 2018, 18, 17545-17572.	4.9	19
29	Ice crystal number concentration estimates from lidarâ€“radar satellite remote sensing â€“ PartÂ2: Controls on the ice crystal number concentration. Atmospheric Chemistry and Physics, 2018, 18, 14351-14370.	4.9	34
30	Aircraft-based observations of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region. Atmospheric Chemistry and Physics, 2018, 18, 14979-15001.	4.9	39
31	On the Statistical Distribution of Total Water in Cirrus Clouds. Geophysical Research Letters, 2018, 45, 9963-9971.	4.0	2
32	Ice particle sampling from aircraft â€“ influence of the probing position on the ice water content. Atmospheric Measurement Techniques, 2018, 11, 4015-4031.	3.1	21
33	High Depolarization Ratios of Naturally Occurring Cirrus Clouds Near Air Traffic Regions Over Europe. Geophysical Research Letters, 2018, 45, 13,166.	4.0	16
34	Airborne limb-imaging measurements of temperature, HNO₃, O₃, ClONO₂, H₂O and CFC-12 during the Arctic winter 2015/2016: characterization, inÂsitu validation and comparison to Aura/MLS. Atmospheric Measurement Techniques, 2018, 11, 4737-4756.	3.1	23
35	Evaluation of the IAGOS-Core GHG package H₂O measurements during the DENCHAR airborne inter-comparison campaign in 2011. Atmospheric Measurement Techniques, 2018, 11, 5279-5297.	3.1	8
36	Ice crystal number concentration estimates from lidarâ€“radar satellite remote sensing â€“ Part 1: Method and evaluation. Atmospheric Chemistry and Physics, 2018, 18, 14327-14350.	4.9	61

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37	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. Bulletin of the American Meteorological Society, 2017, 98, 271-288.	3.3	107
38	Upper tropospheric water vapour and its interaction with cirrus clouds as seen from IAGOS long-term routine in situ observations. Faraday Discussions, 2017, 200, 229-249.	3.2	16
39	Overview of Ice Nucleating Particles. Meteorological Monographs, 2017, 58, 1.1-1.33.	5.0	451
40	Cloud Ice Properties: In Situ Measurement Challenges. Meteorological Monographs, 2017, 58, 9.1-9.23.	5.0	102
41	Dependence of the Ice Water Content and Snowfall Rate on Temperature, Globally: Comparison of in Situ Observations, Satellite Active Remote Sensing Retrievals, and Global Climate Model Simulations. Journal of Applied Meteorology and Climatology, 2017, 56, 189-215.	1.5	25
42	Cirrus Clouds. Meteorological Monographs, 2017, 58, 2.1-2.26.	5.0	94
43	Mixed-Phase Clouds: Progress and Challenges. Meteorological Monographs, 2017, 58, 5.1-5.50.	5.0	165
44	Vertical distribution of the particle phase in tropical deep convective clouds as derived from cloud-side reflected solar radiation measurements. Atmospheric Chemistry and Physics, 2017, 17, 9049-9066.	4.9	14
45	Classification of Arctic, midlatitude and tropical clouds in the mixed-phase temperature regime. Atmospheric Chemistry and Physics, 2017, 17, 12219-12238.	4.9	45
46	Illustration of microphysical processes in Amazonian deep convective clouds in the gamma phase space: introduction and potential applications. Atmospheric Chemistry and Physics, 2017, 17, 14727-14746.	4.9	8
47	Long-lived contrails and convective cirrus above the tropical tropopause. Atmospheric Chemistry and Physics, 2017, 17, 2311-2346.	4.9	8
48	HAI, a new airborne, absolute, twin dual-channel, multi-phase TDLAS-hygrometer: background, design, setup, and first flight data. Atmospheric Measurement Techniques, 2017, 10, 35-57.	3.1	26
49	Thermodynamic correction of particle concentrations measured by underwing probes on fast-flying aircraft. Atmospheric Measurement Techniques, 2016, 9, 5135-5162.	3.1	39
50	Quasi-Spherical Ice in Convective Clouds. Journals of the Atmospheric Sciences, 2016, 73, 3885-3910.	1.7	28
51	Safety criteria for the trafficability of inundated roads in urban floodings. International Journal of Disaster Risk Reduction, 2016, 17, 77-84.	3.9	52
52	The need for accurate longâ€term measurements of water vapor in the upper troposphere and lower stratosphere with global coverage. Earth's Future, 2016, 4, 25-32.	6.3	32
53	Long-range transport pathways of tropospheric source gases originating in Asia into the northern lower stratosphere during the Asian monsoon season 2012. Atmospheric Chemistry and Physics, 2016, 16, 15301-15325.	4.9	57
54	A microphysics guide to cirrus clouds â€" PartÂ1: Cirrus types. Atmospheric Chemistry and Physics, 2016, 16, 3463-3483.	4.9	151

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55	The origin of midlatitude ice clouds and the resulting influence on their microphysical properties. Atmospheric Chemistry and Physics, 2016, 16, 5793-5809.	4.9	80
56	Impact of the Asian monsoon on the extratropical lower stratosphere: trace gas observations during TACTS over Europe 2012. Atmospheric Chemistry and Physics, 2016, 16, 10573-10589.	4.9	34
57	Climatological and radiative properties of midlatitude cirrus clouds derived by automatic evaluation of lidar measurements. Atmospheric Chemistry and Physics, 2016, 16, 7605-7621.	4.9	40
58	Spectroscopic evidence of large aspherical <i>Î²</i>-NAT particles involved in denitrification in the December 2011 Arctic stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 9505-9532.	4.9	12
59	ACRIDICONâ€“CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. Bulletin of the American Meteorological Society, 2016, 97, 1885-1908.	3.3	124
60	Transport of Antarctic stratospheric strongly dehydrated air into the troposphere observed during the HALO-ESMVal campaign 2012. Atmospheric Chemistry and Physics, 2015, 15, 9143-9158.	4.9	14
61	Two decades of water vapor measurements with the FISH fluorescence hygrometer: a review. Atmospheric Chemistry and Physics, 2015, 15, 8521-8538.	4.9	55
62	Level 2 processing for the imaging Fourier transform spectrometer GLORIA: derivation and validation of temperature and trace gas volume mixing ratios from calibrated dynamics mode spectra. Atmospheric Measurement Techniques, 2015, 8, 2473-2489.	3.1	30
63	Validation of first chemistry mode retrieval results from the new limb-imaging FTS GLORIA with correlative MIPAS-STR observations. Atmospheric Measurement Techniques, 2015, 8, 2509-2520.	3.1	11
64	Dual-channel photoacoustic hygrometer for airborne measurements: background, calibration, laboratory and in-flight intercomparison tests. Atmospheric Measurement Techniques, 2015, 8, 33-42.	3.1	13
65	Evaluation of the MOZAIC Capacitive Hygrometer during the airborne field study CIRRUS-III. Atmospheric Measurement Techniques, 2015, 8, 1233-1243.	3.1	18
66	The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques. Atmospheric Measurement Techniques, 2014, 7, 3177-3213.	3.1	88
67	Evaluation of UT/LS hygrometer accuracy by intercomparison during the NASA MACPEX mission. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1915-1935.	3.3	47
68	The Cloud Particle Spectrometer with Polarization Detection (CPSPD): A next generation open-path cloud probe for distinguishing liquid cloud droplets from ice crystals. Atmospheric Research, 2014, 142, 2-14.	4.1	40
69	Fast transport from Southeast Asia boundary layer sources to northern Europe: rapid uplift in typhoons and eastward eddy shedding of the Asian monsoon anticyclone. Atmospheric Chemistry and Physics, 2014, 14, 12745-12762.	4.9	97
70	Microphysical properties of synoptic-scale polar stratospheric clouds: in situ measurements of unexpectedly large HNO₃-containing particles in the Arctic vortex. Atmospheric Chemistry and Physics, 2014, 14, 10785-10801.	4.9	56
71	Technical Note: Reanalysis of upper troposphere humidity data from the MOZAIC programme for the period 1994 to 2009. Atmospheric Chemistry and Physics, 2014, 14, 13241-13255.	4.9	15
72	New particle formation in, around and out of ice clouds in MACPEX. , 2013, , .		0

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73	Ice water content of Arctic, midlatitude, and tropical cirrus â€“ Part 2: Extension of the database and new statistical analysis. Atmospheric Chemistry and Physics, 2013, 13, 6447-6459.	4.9	38
74	Tropical tropopause ice clouds: a dynamic approach to the mystery of low crystal numbers. Atmospheric Chemistry and Physics, 2013, 13, 9801-9818.	4.9	68
75	Arctic stratospheric dehydration â€“ Part 1: Unprecedented observation of vertical redistribution of water. Atmospheric Chemistry and Physics, 2013, 13, 11503-11517.	4.9	41
76	In Situ, Airborne Instrumentation: Addressing and Solving Measurement Problems in Ice Clouds. Bulletin of the American Meteorological Society, 2012, 93, ES29-ES34.	3.3	38
77	Lidar observation and model simulation of a volcanic-ash-induced cirrus cloud during the EyjafjallajÃ¶kull eruption. Atmospheric Chemistry and Physics, 2012, 12, 10281-10294.	4.9	29
78	Sensitivity of radiative properties of persistent contrails to the ice water path. Atmospheric Chemistry and Physics, 2012, 12, 7893-7901.	4.9	11
79	A methodology for in-situ and remote sensing of microphysical and radiative properties of contrails as they evolve into cirrus. Atmospheric Chemistry and Physics, 2012, 12, 8157-8175.	4.9	16
80	Extinction and optical depth of contrails. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	70
81	Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook's tour of mature and emerging technology. Atmospheric Research, 2011, 102, 10-29.	4.1	139
82	Evidence for heterogeneous chlorine activation in the tropical UTLS. Atmospheric Chemistry and Physics, 2011, 11, 241-256.	4.9	33
83	In situ measurements of tropical cloud properties in the West African Monsoon: upper tropospheric ice clouds, Mesoscale Convective System outflow, and subvisual cirrus. Atmospheric Chemistry and Physics, 2011, 11, 5569-5590.	4.9	59
84	Thin and subvisible cirrus and contrails in a subsaturated environment. Atmospheric Chemistry and Physics, 2011, 11, 5853-5865.	4.9	39
85	Two-moment bulk stratiform cloud microphysics in the GFDL AM3 GCM: description, evaluation, and sensitivity tests. Atmospheric Chemistry and Physics, 2010, 10, 8037-8064.	4.9	87
86	In-situ observations of young contrails â€“ overview and selected results from the CONCERT campaign. Atmospheric Chemistry and Physics, 2010, 10, 9039-9056.	4.9	93
87	Airborne measurements of the nitric acid partitioning in persistent contrails. Atmospheric Chemistry and Physics, 2009, 9, 8189-8197.	4.9	18
88	Ice supersaturations and cirrus cloud crystal numbers. Atmospheric Chemistry and Physics, 2009, 9, 3505-3522.	4.9	317
89	A climatological view of HNO₃ partitioning in cirrus clouds. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 905-912.	2.7	21
90	Ice water content of Arctic, midlatitude, and tropical cirrus. Journal of Geophysical Research, 2008, 113, .	3.3	102

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91	Meridional gradients of light absorbing carbon over northern Europe. Environmental Research Letters, 2008, 3, 025010.	5.2	9
92	MAID: a model to simulate UT/LS aerosols and ice clouds. Environmental Research Letters, 2008, 3, 035001.	5.2	13
93	Supersaturations, microphysics and nitric acid partitioning in a cold cirrus cloud observed during CR-AVE 2006: an observationâ€"modelling intercomparison study. Environmental Research Letters, 2008, 3, 035003.	5.2	32
94	Clouds and aerosols in Puerto Rico â€" a new evaluation. Atmospheric Chemistry and Physics, 2008, 8, 1293-1309.	4.9	72
95	In-situ observations and modeling of small nitric acid-containing ice crystals. Atmospheric Chemistry and Physics, 2007, 7, 3373-3383.	4.9	41
96	The FLASH instrument for water vapor measurements on board the high-altitude airplane. Instruments and Experimental Techniques, 2007, 50, 113-121.	0.5	50
97	Nitric acid in cirrus clouds. Geophysical Research Letters, 2006, 33, .	4.0	54
98	Tropopause and hygropause variability over the equatorial Indian Ocean during February and March 1999. Journal of Geophysical Research, 2006, 111, .	3.3	18
99	Some ice nucleation characteristics of Asian and Saharan desert dust. Atmospheric Chemistry and Physics, 2006, 6, 2991-3006.	4.9	177
100	Efficiency of the deposition mode ice nucleation on mineral dust particles. Atmospheric Chemistry and Physics, 2006, 6, 3007-3021.	4.9	328
101	Nitric acid partitioning in cirrus clouds: the role of aerosol particles and relative humidity. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 141-147.	1.6	14
102	Experimental investigation of ice nucleation by different types of aerosols in the aerosol chamber AIDA: implications to microphysics of cirrus clouds. Meteorologische Zeitschrift, 2005, 14, 485-497.	1.0	47
103	Ice nucleation on flame soot aerosol of different organic carbon content. Meteorologische Zeitschrift, 2005, 14, 477-484.	1.0	94
104	Effect of sulfuric acid coating on heterogeneous ice nucleation by soot aerosol particles. Journal of Geophysical Research, 2005, 110, .	3.3	191
105	Sampling characteristics of inlets operated at low U/U0 ratios: new insights from computational fluid dynamics (CFX) modeling. Journal of Aerosol Science, 2004, 35, 683-694.	3.8	42
106	THE DISTRIBUTION OF RELATIVE HUMIDITY IN CIRRUS CLOUDS AND ITS IMPACT ON THE NITRIC ACID CONTENT OF INTERSTITIAL AEROSOL PARTICLES. Journal of Aerosol Science, 2004, 35, S861-S862.	3.8	0
107	Aircraft Particle Inlets: State-of-the-Art and Future Needs. Bulletin of the American Meteorological Society, 2004, 85, 89-92.	3.3	18
108	Supplement to Aircraft Particle Inlets: State-of-the-Art and Future Needs. Bulletin of the American Meteorological Society, 2004, 85, 92-92.	3.3	12

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109	Intercomparison of Stratospheric Chemistry Models under Polar Vortex Conditions. Journal of Atmospheric Chemistry, 2003, 45, 51-77.	3.2	18
110	Numerical simulations of homogeneous freezing processes in the aerosol chamber AIDA. Atmospheric Chemistry and Physics, 2003, 3, 195-210.	4.9	48
111	Experimental investigation of homogeneous freezing of sulphuric acid particles in the aerosol chamber AIDA. Atmospheric Chemistry and Physics, 2003, 3, 211-223.	4.9	178
112	Reply to discussion on â€œControl of solute concentrations in cloud and fog water by liquid water contentâ€ Atmospheric Environment, 2002, 36, 1909-1910.	4.1	8
113	Evaluation of a Photoacoustic Detector for Water Vapor Measurements under Simulated Tropospheric/Lower Stratospheric Conditions. Environmental Science & Technology, 2001, 35, 4881-4885.	10.0	22
114	LABORATORY AND MODEL STUDIES ON THE INFLUENCE OF BIOLOGICAL AEROSOL PARTICLES ON DROP FREEZING. Journal of Aerosol Science, 2001, 32, 927-928.	3.8	0
115	Control of solute concentrations in cloud and fog water by liquid water content. Atmospheric Environment, 2000, 34, 1109-1122.	4.1	71
116	Ion composition of cloud processed continental aerosol particles. Journal of Aerosol Science, 2000, 31, 64-65.	3.8	0
117	Cloud processing of continental aerosol particles: Experimental investigations for different drop sizes. Journal of Geophysical Research, 2000, 105, 11739-11752.	3.3	17
118	The influence of the biological and the water-soluble fraction of aerosol particles on cloud microphysics: numerical case study for a marine situation. Journal of Aerosol Science, 1998, 29, S795-S796.	3.8	0
119	A contribution of primary biological aerosol particles as insoluble component to the atmospheric aerosol over the south atlantic ocean. Journal of Aerosol Science, 1997, 28, S3-S4.	3.8	6
120	The water-soluble fraction of marine aerosol particles measured on the Island of Helgoland, North Sea. Journal of Aerosol Science, 1997, 28, S229-S230.	3.8	0
121	Growing of aerosol particles by cloud processing: Experimental investigations for different drop size classes. Journal of Aerosol Science, 1997, 28, S571-S572.	3.8	1
122	A method to determine rainwater solutes from pH and conductivity measurements. Atmospheric Environment, 1996, 30, 3291-3300.	4.1	19
123	The solubility of atmospheric aerosol particles and its impact on cloud microphysics. Journal of Aerosol Science, 1996, 27, S81-S82.	3.8	1
124	The water-soluble fraction of atmospheric aerosol particles and its influence on cloud microphysics. Journal of Geophysical Research, 1996, 101, 29499-29510.	3.3	40
125	Inelastic photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 657-664.	4.1	84
126	Field studies on the cloud processing of atmospheric aerosol particles and trace gases. Journal of Aerosol Science, 1995, 26, S893-S894.	3.8	2

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127	A new method to measure the size distribution of insoluble submicron particles in water. Journal of Aerosol Science, 1994, 25, 345-354.	3.8	1
128	On the collection efficiency of a rotating ARM collector and its applicability to cloud- and fogwater sampling. Journal of Aerosol Science, 1994, 25, 137-148.	3.8	14
129	Measurements of atmospheric condensation nuclei size distributions in Siberia. Journal of Aerosol Science, 1992, 23, 191-199.	3.8	16
130	A new method for measurements of insoluble submicron particles in water. Journal of Aerosol Science, 1991, 22, S329-S330.	3.8	3
131	Number size distribution of insolubleatmospheric aerosol particles in fog/cloud-water. Journal of Aerosol Science, 1991, 22, S525-S528.	3.8	3
132	Collection efficiency of the Mainz-rotating-arm-collector. Journal of Aerosol Science, 1990, 21, S653-S656.	3.8	2
133	Rainwater composition over a rural area with special emphasis on the size distribution of insoluble particulate matter. Journal of Atmospheric Chemistry, 1987, 5, 173-184.	3.2	17
134	Particle Distribution, Composition, and Processing during Cloud, Fog, and Rain Cycles. , 0, , 261-284.		0