

Stephan Borrmann

List of Publications by Year in descending order

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Version: 2024-02-01

205
papers

18,668
citations

32410

55
h-index

20023

121
g-index

285
all docs

285
docs citations

285
times ranked

12038
citing authors

#	ARTICLE	IF	CITATIONS
1	Holographic in-situ measurements of the spatial droplet distribution in stratiform clouds. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 50, 377.	0.8	11
2	Melting of atmospheric ice particles. , 2022, , 423-471.		0
3	Vertical Wind Tunnel Experiments and a Theoretical Study on the Microphysics of Melting Low-Density Graupel. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 1069-1087.	0.6	1
4	Overview: On the transport and transformation of pollutants in the outflow of major population centres – observational data from the EMERGE European intensive operational period in summer 2017. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5877-5924.	1.9	16
5	Design, characterization, and first field deployment of a novel aircraft-based aerosol mass spectrometer combining the laser ablation and flash vaporization techniques. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2889-2921.	1.2	3
6	Aerosol filtration efficiency of household materials for homemade face masks: Influence of material properties, particle size, particle electrical charge, face velocity, and leaks. <i>Aerosol Science and Technology</i> , 2021, 55, 63-79.	1.5	128
7	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68°N. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 989-1013.	1.9	18
8	Characterising optical array particle imaging probes: implications for small-ice-crystal observations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1917-1939.	1.2	7
9	Comparative study on immersion freezing utilizing single-droplet levitation methods. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3289-3316.	1.9	4
10	Chemical composition and source attribution of sub-micrometre aerosol particles in the summertime Arctic lower troposphere. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6509-6539.	1.9	5
11	Cleaner burning aviation fuels can reduce contrail cloudiness. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	92
12	In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone – Part 1: Summary of StratoClim results. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11689-11722.	1.9	11
13	In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone – Part 2: NPF inside ice clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13455-13481.	1.9	5
14	The Asian tropopause aerosol layer within the 2017 monsoon anticyclone: microphysical properties derived from aircraft-borne in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15259-15282.	1.9	7
15	Model Calculations of Aerosol Transmission and Infection Risk of COVID-19 in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8114.	1.2	158
16	Small ice particles at slightly supercooled temperatures in tropical maritime convection. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3895-3904.	1.9	14
17	Influence of vessel characteristics and atmospheric processes on the gas and particle phase of ship emission plumes: in situ measurements in the Mediterranean Sea and around the Arabian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4713-4734.	1.9	35
18	A Wind Tunnel Investigation into the Aerodynamics of Lobed Hailstones. <i>Atmosphere</i> , 2020, 11, 494.	1.0	3

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19	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Measurement Techniques, 2020, 13, 661-684.	1.2	12
20	Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. Atmospheric Chemistry and Physics, 2020, 20, 4757-4785.	1.9	40
21	Holographic Observations of Centimeter-Scale Nonuniformities within Marine Stratocumulus Clouds. Journals of the Atmospheric Sciences, 2020, 77, 499-512.	0.6	8
22	Application of an O-ring pinch device as a constant-pressure inlet (CPI) for airborne sampling. Atmospheric Measurement Techniques, 2020, 13, 3651-3660.	1.2	9
23	Optimizing the detection, ablation, and ion extraction efficiency of a single-particle laser ablation mass spectrometer for application in environments with low aerosol particle concentrations. Atmospheric Measurement Techniques, 2020, 13, 5923-5953.	1.2	10
24	Application of holography and automated image processing for laboratory experiments on mass and fall speed of small cloud ice crystals. Atmospheric Chemistry and Physics, 2020, 20, 14889-14901.	1.9	5
25	Revisiting particle sizing using greyscale optical array probes: evaluation using laboratory experiments and synthetic data. Atmospheric Measurement Techniques, 2019, 12, 3067-3079.	1.2	11
26	Ammonium nitrate particles formed in upper troposphere from ground ammonia sources during Asian monsoons. Nature Geoscience, 2019, 12, 608-612.	5.4	95
27	The Effect of Turbulence on the Accretional Growth of Graupel. Journals of the Atmospheric Sciences, 2019, 76, 3047-3061.	0.6	6
28	Remote biomass burning dominates southern West African air pollution during the monsoon. Atmospheric Chemistry and Physics, 2019, 19, 15217-15234.	1.9	29
29	Communal biofuel burning for district heating: Emissions and immissions from medium-sized (0.4 and) Tj ETQq1 1 0,784314 ggBT /Over	1.9	10
30	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. Atmospheric Chemistry and Physics, 2018, 18, 921-961.	1.9	105
31	The Dynamics of Aerosol Chemistry-Cloud Interactions in West Africa Field Campaign: Overview and Research Highlights. Bulletin of the American Meteorological Society, 2018, 99, 83-104.	1.7	62
32	Comparing airborne and satellite retrievals of cloud optical thickness and particle effective radius using a spectral radiance ratio technique: two case studies for cirrus and deep convective clouds. Atmospheric Chemistry and Physics, 2018, 18, 4439-4462.	1.9	11
33	Measurements of aerosol and CCN properties in the Mackenzie River delta (Canadian Arctic) during spring-summer transition in May 2014. Atmospheric Chemistry and Physics, 2018, 18, 4477-4496.	1.9	21
34	Assessing the role of anthropogenic and biogenic sources on PM _{2.5} over southern West Africa using aircraft measurements. Atmospheric Chemistry and Physics, 2018, 18, 757-772.	1.9	26
35	Statistical analysis of contrail to cirrus evolution during the Contrail and Cirrus Experiment (CONCERT). Atmospheric Chemistry and Physics, 2018, 18, 9803-9822.	1.9	13
36	The impact of mineral dust on cloud formation during the Saharan dust event in April 2014 over Europe. Atmospheric Chemistry and Physics, 2018, 18, 17545-17572.	1.9	19

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37	Aircraft-based observations of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14979-15001.	1.9	39
38	Overview: Precipitation characteristics and sensitivities to environmental conditions during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6461-6482.	1.9	34
39	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 271-288.	1.7	107
40	Microphysical Properties of Ice Crystal Precipitation and Surface-Generated Ice Crystals in a High Alpine Environment in Switzerland. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 433-453.	0.6	11
41	How the user can influence particulate emissions from residential wood and pellet stoves: Emission factors for different fuels and burning conditions. <i>Atmospheric Environment</i> , 2017, 158, 216-226.	1.9	74
42	Complementary online aerosol mass spectrometry and offline FT-IR spectroscopy measurements: Prospects and challenges for the analysis of anthropogenic aerosol particle emissions. <i>Atmospheric Environment</i> , 2017, 166, 92-98.	1.9	13
43	Mixed-Phase Clouds: Progress and Challenges. <i>Meteorological Monographs</i> , 2017, 58, 5.1-5.50.	5.0	165
44	Sensitivities of Amazonian clouds to aerosols and updraft speed. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10037-10050.	1.9	37
45	Sub-micrometer refractory carbonaceous particles in the polar stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12475-12493.	1.9	9
46	Uptake of nitric acid, ammonia, and organics in orographic clouds: mass spectrometric analyses of droplet residual and interstitial aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1571-1593.	1.9	27
47	Chemistry of riming: the retention of organic and inorganic atmospheric trace constituents. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9717-9732.	1.9	12
48	Particulate trimethylamine in the summertime Canadian high Arctic lower troposphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13747-13766.	1.9	49
49	Cloud droplets to drizzle: Contribution of transition drops to microphysical and optical properties of marine stratocumulus clouds. <i>Geophysical Research Letters</i> , 2017, 44, 8002-8010.	1.5	33
50	Further evidence for CCN aerosol concentrations determining the height of warm rain and ice initiation in convective clouds over the Amazon basin. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14433-14456.	1.9	58
51	Illustration of microphysical processes in Amazonian deep convective clouds in the gamma phase space: introduction and potential applications. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14727-14746.	1.9	8
52	Long-lived contrails and convective cirrus above the tropical tropopause. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2311-2346.	1.9	8
53	Online single particle analysis of ice particle residuals from mountain-top mixed-phase clouds using laboratory derived particle type assignment. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 575-594.	1.9	39
54	Comparing parameterized versus measured microphysical properties of tropical convective cloud bases during the ACRIDICON-CHUVA campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7365-7386.	1.9	30

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55	A tandem approach for collocated measurements of microphysical and radiative cirrus properties. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3485-3498.	1.2	2
56	The ion trap aerosol mass spectrometer: field intercomparison with the ToF-AMS and the capability of differentiating organic compound classes via MS-MS. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1623-1637.	1.2	2
57	Thermodynamic correction of particle concentrations measured by underwing probes on fast-flying aircraft. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5135-5162.	1.2	39
58	Airborne observations of the microphysical structure of two contrasting cirrus clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,510.	1.2	22
59	A microphysics guide to cirrus clouds – Part 1: Cirrus types. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3463-3483.	1.9	151
60	Porous aerosol in degassing plumes of Mt. Etna and Mt. Stromboli. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11883-11897.	1.9	10
61	Estimating N_{2O} uptake coefficients using ambient measurements of NO_3 , $ClNO_2$ and particle-phase nitrate. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12221-12240.	1.9	71
62	Atmospheric aerosols in Rome, Italy: sources, dynamics and spatial variations during two seasons. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15277-15299.	1.9	38
63	Aerosol properties, source identification, and cloud processing in orographic clouds measured by single particle mass spectrometry on a central European mountain site during HCCT-2010. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 505-524.	1.9	53
64	Spectral optical layer properties of cirrus from collocated airborne measurements and simulations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7681-7693.	1.9	9
65	Chemical analysis of refractory stratospheric aerosol particles collected within the arctic vortex and inside polar stratospheric clouds. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8405-8421.	1.9	26
66	Spectroscopic evidence of large aspherical I^2 -NAT particles involved in denitrification in the December 2011 Arctic stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9505-9532.	1.9	12
67	ACRIDICON – CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1885-1908.	1.7	124
68	Arctic low-level boundary layer clouds: in situ measurements and simulations of mono- and bimodal supercooled droplet size distributions at the top layer of liquid phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 617-631.	1.9	49
69	In situ, satellite measurement and model evidence on the dominant regional contribution to fine particulate matter levels in the Paris megacity. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9577-9591.	1.9	92
70	Aerosol mass spectrometry: particle – vaporizer interactions and their consequences for the measurements. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3811-3830.	1.2	53
71	Aerosol particle and trace gas emissions from earthworks, road construction, and asphalt paving in Germany: Emission factors and influence on local air quality. <i>Atmospheric Environment</i> , 2015, 122, 662-671.	1.9	39
72	In situ detection of stratosphere – troposphere exchange of cirrus particles in the midlatitudes. <i>Geophysical Research Letters</i> , 2015, 42, 949-955.	1.5	23

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73	Application of mobile aerosol and trace gas measurements for the investigation of megacity air pollution emissions: the Paris metropolitan area. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 279-299.	1.2	21
74	A wind tunnel study of the effects of collision processes on the shape and oscillation for moderate-size raindrops. <i>Atmospheric Research</i> , 2014, 142, 67-78.	1.8	19
75	Cloud condensation nuclei (CCN) concentration in the Brazilian northeast semi-arid region: the influence of local circulation. <i>Meteorology and Atmospheric Physics</i> , 2014, 125, 159-176.	0.9	3
76	Microphysical properties of synoptic-scale polar stratospheric clouds: in situ measurements of unexpectedly large HNO ₃ -containing particles in the Arctic vortex. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10785-10801.	1.9	56
77	Denitrification by large NAT particles: the impact of reduced settling velocities and hints on particle characteristics. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11525-11544.	1.9	15
78	Enhancements of the refractory submicron aerosol fraction in the Arctic polar vortex: feature or exception?. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12319-12342.	1.9	29
79	Particle surface area dependence of mineral dust in immersion freezing mode: investigations with freely suspended drops in an acoustic levitator and a vertical wind tunnel. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12343-12355.	1.9	30
80	Megacity emission plume characteristics in summer and winter investigated by mobile aerosol and trace gas measurements: the Paris metropolitan area. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12931-12950.	1.9	22
81	Tropical deep convective life cycle: Cb-anvil cloud microphysics from high-altitude aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13223-13240.	1.9	19
82	Nitric acid trihydrate nucleation and denitrification in the Arctic stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1055-1073.	1.9	62
83	In-cloud sulfate addition to single particles resolved with sulfur isotope analysis during HCCT-2010. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4219-4235.	1.9	31
84	The retention of ammonia and sulfur dioxide during riming of ice particles and dendritic snow flakes: laboratory experiments in the Mainz vertical wind tunnel. <i>Journal of Atmospheric Chemistry</i> , 2013, 70, 131-150.	1.4	10
85	Anthropogenic sources of aerosol particles in a football stadium: Real-time characterization of emissions from cigarette smoking, cooking, hand flares, and color smoke bombs by high-resolution aerosol mass spectrometry. <i>Atmospheric Environment</i> , 2013, 77, 1043-1051.	1.9	25
86	Enhanced Role of Transition Metal Ion Catalysis During In-Cloud Oxidation of SO ₂ . <i>Science</i> , 2013, 340, 727-730.	6.0	286
87	Shapes and oscillations of raindrops with reduced surface tensions: Measurements at the Mainz vertical wind tunnel. <i>Atmospheric Research</i> , 2013, 119, 38-45.	1.8	12
88	Quantitative single-particle analysis with the Aerodyne aerosol mass spectrometer: development of a new classification algorithm and its application to field data. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3131-3145.	1.2	24
89	Aerosol particle measurements at three stationary sites in the megacity of Paris during summer 2009: meteorology and air mass origin dominate aerosol particle composition and size distribution. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 933-959.	1.9	101
90	Investigation of gaseous and particulate emissions from various marine vessel types measured on the banks of the Elbe in Northern Germany. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3603-3618.	1.9	87

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91	Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions (RECONCILE): activities and results. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9233-9268.	1.9	88
92	Wintertime aerosol chemical composition and source apportionment of the organic fraction in the metropolitan area of Paris. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 961-981.	1.9	391
93	In Situ, Airborne Instrumentation: Addressing and Solving Measurement Problems in Ice Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, ES29-ES34.	1.7	38
94	Design of a mobile aerosol research laboratory and data processing tools for effective stationary and mobile field measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1443-1457.	1.2	65
95	Absorbing aerosols at high relative humidity: linking hygroscopic growth to optical properties. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5511-5521.	1.9	91
96	CLOOCl photolysis at high solar zenith angles: analysis of the RECONCILE self-match flight. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1353-1365.	1.9	32
97	Variability of aerosol, gaseous pollutants and meteorological characteristics associated with changes in air mass origin at the SW Atlantic coast of Iberia. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3761-3782.	1.9	17
98	Fractionation of sulfur isotopes during heterogeneous oxidation of SO ₂ on sea salt aerosol: a new tool to investigate non-sea salt sulfate production in the marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4619-4631.	1.9	22
99	Sulfur isotope fractionation during heterogeneous oxidation of SO ₂ on mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4867-4884.	1.9	54
100	Penetration efficiency of nanometer-sized aerosol particles in tubes under turbulent flow conditions. <i>Journal of Aerosol Science</i> , 2012, 50, 11-25.	1.8	19
101	Urban emission hot spots as sources for remote aerosol deposition. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	23
102	Effects of atmospheric aerosol on the performance of environmentally sustainable passive air-breathing PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17203-17208.	3.8	11
103	A comparison of light backscattering and particle size distribution measurements in tropical cirrus clouds. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 557-570.	1.2	15
104	Source identification and airborne chemical characterisation of aerosol pollution from long-range transport over Greenland during POLARCAT summer campaign 2008. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10097-10123.	1.9	52
105	Mass-spectrometric identification of primary biological particle markers and application to pristine submicron aerosol measurements in Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11415-11429.	1.9	59
106	Chemical, physical, and optical evolution of biomass burning aerosols: a case study. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1491-1503.	1.9	122
107	Evidence for heterogeneous chlorine activation in the tropical UTLS. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 241-256.	1.9	33
108	In situ measurements of tropical cloud properties in the West African Monsoon: upper tropospheric ice clouds, Mesoscale Convective System outflow, and subvisual cirrus. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5569-5590.	1.9	59

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109	In situ observations of new particle formation in the tropical upper troposphere: the role of clouds and the nucleation mechanism. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9983-10010.	1.9	66
110	Variable lifetimes and loss mechanisms for NO ₃ and N ₂ O ₅ during the DOMINO campaign: contrasts between marine, urban and continental air. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10853-10870.	1.9	55
111	Impact of deep convection in the tropical tropopause layer in West Africa: in-situ observations and mesoscale modelling. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 201-214.	1.9	18
112	Wind tunnel experiments on the retention of trace gases during riming: nitric acid, hydrochloric acid, and hydrogen peroxide. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11569-11579.	1.9	18
113	Characterization of a Newly Developed Aircraft-Based Laser Ablation Aerosol Mass Spectrometer (ALABAMA) and First Field Deployment in Urban Pollution Plumes over Paris During MEGAPOLI 2009. <i>Aerosol Science and Technology</i> , 2011, 45, 46-64.	1.5	53
114	3-D imaging and quantification of graupel porosity by synchrotron-based micro-tomography. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2225-2234.	1.2	5
115	Corrigendum to "An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08)" published in <i>Atmos. Chem. Phys.</i> , 10, 11415-11438, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11565-11565.	1.9	4
116	Aerosols in the tropical and subtropical UT/LS: in-situ measurements of submicron particle abundance and volatility. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5573-5592.	1.9	59
117	Chemical composition of ambient aerosol, ice residues and cloud droplet residues in mixed-phase clouds: single particle analysis during the Cloud and Aerosol Characterization Experiment (CLACE 6). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8077-8095.	1.9	127
118	Air mass origins influencing TTL chemical composition over West Africa during 2006 summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10753-10770.	1.9	26
119	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11415-11438.	1.9	170
120	An introduction to the SCOUT-AMMA stratospheric aircraft, balloons and sondes campaign in West Africa, August 2006: rationale and roadmap. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2237-2256.	1.9	58
121	Cross-hemispheric transport of central African biomass burning pollutants: implications for downwind ozone production. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3027-3046.	1.9	58
122	In-situ observations of young contrails – overview and selected results from the CONCERT campaign. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9039-9056.	1.9	93
123	Enhanced organic mass fraction and decreased hygroscopicity of cloud condensation nuclei (CCN) during new particle formation events. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	138
124	In situ and lidar observations of tropopause subvisible cirrus clouds during TC4. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
125	Aerosol layers from the 2008 eruptions of Mount Okmok and Mount Kasatochi: In situ upper troposphere and lower stratosphere measurements of sulfate and organics over Europe. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
126	Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. <i>Science</i> , 2010, 329, 1513-1516.	6.0	541

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127	Shapes and oscillations of falling raindrops – A review. <i>Atmospheric Research</i> , 2010, 97, 416-425.	1.8	100
128	Experimental characterization of the CONDensation PARTICle counting System for high altitude aircraft-borne application. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 243-258.	1.2	47
129	Particle Loss Calculator – a new software tool for the assessment of the performance of aerosol inlet systems. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 479-494.	1.2	260
130	A new airborne tandem platform for collocated measurements of microphysical cloud and radiation properties. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 147-158.	1.2	13
131	Aerosol quantification with the Aerodyne Aerosol Mass Spectrometer: detection limits and ionizer background effects. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 33-46.	1.2	75
132	Drop Shapes and Axis Ratio Distributions: Comparison between 2D Video Disdrometer and Wind-Tunnel Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1427-1432.	0.5	59
133	riming of Graupel: Wind Tunnel Investigations of Collection Kernels and Growth Regimes. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2359-2366.	0.6	25
134	A Wind Tunnel Study on the Shape, Oscillation, and Internal Circulation of Large Raindrops with Sizes between 2.5 and 7.5 mm. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 755-765.	0.6	67
135	Chemical Composition of Cloud Water in the Puerto Rican Tropical Trade Wind Cumuli. <i>Water, Air, and Soil Pollution</i> , 2009, 200, 3-14.	1.1	27
136	Inadvertent climate modification due to anthropogenic lead. <i>Nature Geoscience</i> , 2009, 2, 333-336.	5.4	91
137	Characterization of a Modified Expansion Condensation Particle Counter for Detection of Nanometer-Sized Particles. <i>Aerosol Science and Technology</i> , 2009, 43, 767-780.	1.5	12
138	Trace Detection of Organic Compounds in Complex Sample Matrixes by Single Photon Ionization Ion Trap Mass Spectrometry: Real-Time Detection of Security-Relevant Compounds and Online Analysis of the Coffee-Roasting Process. <i>Analytical Chemistry</i> , 2009, 81, 4456-4467.	3.2	38
139	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	171
140	Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.	6.0	3,374
141	Effective broadband refractive index retrieval by a white light optical particle counter. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7943.	1.3	28
142	Evidence for ice particles in the tropical stratosphere from in-situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6775-6792.	1.9	100
143	Airborne measurements of the nitric acid partitioning in persistent contrails. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8189-8197.	1.9	18
144	In situ measurements of particle number concentration, chemically resolved size distributions and black carbon content of traffic-related emissions on German motorways, rural roads and in city traffic. <i>Atmospheric Environment</i> , 2008, 42, 4257-4268.	1.9	47

#	ARTICLE	IF	CITATIONS
145	Unprecedented evidence for deep convection hydrating the tropical stratosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	188
146	Comparison of Two Aerodynamic Lenses as an Inlet for a Single Particle Laser Ablation Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2008, 42, 970-980.	1.5	26
147	Clouds and aerosols in Puerto Rico – a new evaluation. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1293-1309.	1.9	72
148	Applicability of condensation particle counters to measure atmospheric clusters. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4049-4060.	1.9	74
149	Characterization of the South Atlantic marine boundary layer aerosol using an aerodyne aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4711-4728.	1.9	143
150	Rural continental aerosol properties and processes observed during the Hohenpeissenberg Aerosol Characterization Experiment (HAZE2002). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 603-623.	1.9	49
151	Detection of reactive nitrogen containing particles in the tropopause region – evidence for a tropical nitric acid trihydrate (NAT) belt. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7421-7430.	1.9	34
152	In-situ observations and modeling of small nitric acid-containing ice crystals. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3373-3383.	1.9	41
153	Atmospheric radiative effects of an in situ measured Saharan dust plume and the role of large particles. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4887-4903.	1.9	93
154	Comparison of a Quadrupole and a Time-of-Flight Aerosol Mass Spectrometer during the Feldberg Aerosol Characterization Experiment 2004. <i>Aerosol Science and Technology</i> , 2007, 41, 679-691.	1.5	23
155	Microphysical and chemical characteristics of cloud droplet residuals and interstitial particles in continental stratocumulus clouds. <i>Atmospheric Research</i> , 2007, 86, 225-240.	1.8	17
156	Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenically influenced Northern Hemisphere midlatitudes. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	1,773
157	Development and characterization of an ion trap mass spectrometer for the on-line chemical analysis of atmospheric aerosol particles. <i>International Journal of Mass Spectrometry</i> , 2007, 265, 30-39.	0.7	15
158	Laboratory studies on the uptake of aromatic hydrocarbons by ice crystals during vapor depositional crystal growth. <i>Atmospheric Environment</i> , 2007, 41, 6156-6166.	1.9	17
159	Laboratory studies about the interaction of ammonia with ice crystals at temperatures between 0 and ~20°C. <i>Journal of Atmospheric Chemistry</i> , 2007, 57, 73-84.	1.4	16
160	Aircraft-based operation of an aerosol mass spectrometer: Measurements of tropospheric aerosol composition. <i>Journal of Aerosol Science</i> , 2006, 37, 839-857.	1.8	30
161	Mass spectrometric analysis and aerodynamic properties of various types of combustion-related aerosol particles. <i>International Journal of Mass Spectrometry</i> , 2006, 258, 37-49.	0.7	260
162	Measurement of Ambient, Interstitial, and Residual Aerosol Particles on a Mountaintop Site in Central Sweden using an Aerosol Mass Spectrometer and a CVI. <i>Journal of Atmospheric Chemistry</i> , 2006, 56, 1-20.	1.4	47

#	ARTICLE	IF	CITATIONS
163	Uptake of gaseous aromatic hydrocarbons by non-growing ice crystals. <i>Atmospheric Environment</i> , 2006, 40, 5476-5485.	1.9	13
164	Digital crossed-beam holography for in situ imaging of atmospheric ice particles. <i>Journal of Optics</i> , 2006, 8, 796-806.	1.5	29
165	Size Matters More Than Chemistry for Cloud-Nucleating Ability of Aerosol Particles. <i>Science</i> , 2006, 312, 1375-1378.	6.0	871
166	Observations of meteoric material and implications for aerosol nucleation in the winter Arctic lower stratosphere derived from in situ particle measurements. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3053-3069.	1.9	113
167	Nitric Acid Trihydrate (NAT) formation at low NAT supersaturation in Polar Stratospheric Clouds (PSCs). <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1371-1380.	1.9	160
168	Characterization of an Automated, Water-Based Expansion Condensation Nucleus Counter for Ultrafine Particles. <i>Aerosol Science and Technology</i> , 2005, 39, 1174-1183.	1.5	18
169	A New Time-of-Flight Aerosol Mass Spectrometer (TOF-AMS) Instrument Description and First Field Deployment. <i>Aerosol Science and Technology</i> , 2005, 39, 637-658.	1.5	719
170	Nucleation Particles in Diesel Exhaust: Composition Inferred from In Situ Mass Spectrometric Analysis. <i>Environmental Science & Technology</i> , 2005, 39, 6153-6161.	4.6	203
171	The ice nucleating ability of pollen. <i>Atmospheric Research</i> , 2005, 78, 182-189.	1.8	89
172	The APE-THESIO Tropical Campaign: An Overview. <i>Journal of Atmospheric Chemistry</i> , 2004, 48, 1-33.	1.4	33
173	Heterogeneous freezing of single sulfuric acid solution droplets: laboratory experiments utilizing an acoustic levitator. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1925-1932.	1.9	31
174	Online mass spectrometric aerosol measurements during the MINOS campaign (Crete, August 2001). <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 65-80.	1.9	34
175	Dehydration potential of ultrathin clouds at the tropical tropopause. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	54
176	Ultrathin Tropical Tropopause Clouds (UTTCS): I. Cloud morphology and occurrence. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1083-1091.	1.9	83
177	Ultrathin Tropical Tropopause Clouds (UTTCS): II. Stabilization mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1093-1100.	1.9	34
178	In situ measurements of background aerosol and subvisible cirrus in the tropical tropopause region. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 8-1.	3.3	55
179	Global Air Pollution Crossroads over the Mediterranean. <i>Science</i> , 2002, 298, 794-799.	6.0	920
180	On the Transition of Contrails into Cirrus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 464-480.	0.6	153

#	ARTICLE	IF	CITATIONS
181	Stratospheric aerosol measurements in the Arctic winter of 1996/1997 with the M-55 Geophysika high-altitude research aircraft. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 1088-1103.	0.8	13
182	APPLICATION OF THE T-MATRIX METHOD TO THE MEASUREMENT OF ASPHERICAL (ELLIPSOIDAL) PARTICLES WITH FORWARD SCATTERING OPTICAL PARTICLE COUNTERS. <i>Journal of Aerosol Science</i> , 2000, 31, 789-799.	1.8	86
183	Airborne observations of dust aerosol over the North Atlantic Ocean during ACE 2: Indications for heterogeneous ozone destruction. <i>Journal of Geophysical Research</i> , 2000, 105, 15263-15275.	3.3	120
184	Holographic in-situ measurements of the spatial droplet distribution in stratiform clouds. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998, 50, 377-387.	0.8	9
185	In-line holography of cloud volumes applied to the measurement of raindrops and snowflakes. <i>Atmospheric Research</i> , 1998, 49, 199-212.	1.8	14
186	Heterogeneous chlorine chemistry in the tropopause region. <i>Journal of Geophysical Research</i> , 1997, 102, 21411-21429.	3.3	163
187	Near-field measurements on contrail properties from fuels with different sulfur content. <i>Journal of Geophysical Research</i> , 1997, 102, 29867-29880.	3.3	82
188	On the occurrence of ClO in cirrus clouds and volcanic aerosol in the tropopause region. <i>Geophysical Research Letters</i> , 1997, 24, 2011-2014.	1.5	40
189	Heterogeneous reactions on stratospheric background aerosols, volcanic sulfuric acid droplets, and type I polar stratospheric clouds: Effects of temperature fluctuations and differences in particle phase. <i>Journal of Geophysical Research</i> , 1997, 102, 3639-3648.	3.3	40
190	The potential of cirrus clouds for heterogeneous chlorine activation. <i>Geophysical Research Letters</i> , 1996, 23, 2133-2136.	1.5	135
191	Performance of a Focused Cavity Aerosol Spectrometer for Measurements in the Stratosphere of Particle Size in the 0.06–2.0-µm-Diameter Range. <i>Journal of Atmospheric and Oceanic Technology</i> , 1995, 12, 115-129.	0.5	89
192	Chemistry and aerosol measurements on the Geophysika stratospheric research aircraft: The airborne polar experiment. <i>Physics and Chemistry of the Earth</i> , 1995, 20, 97-101.	0.3	6
193	Aerosols as dynamical tracers in the lower stratosphere: Ozone versus aerosol correlation after the Mount Pinatubo eruption. <i>Journal of Geophysical Research</i> , 1995, 100, 11147.	3.3	17
194	The Kleiner Feldberg Cloud Experiment 1990. An overview. <i>Journal of Atmospheric Chemistry</i> , 1994, 19, 3-35.	1.4	75
195	Instrument intercomparison study on cloud droplet size distribution measurements: Holography vs. laser optical particle counter. <i>Journal of Atmospheric Chemistry</i> , 1994, 19, 253-258.	1.4	7
196	30.P.07 Application of single and double pulsed Fraunhofer in-line holography in cloud physics. <i>Journal of Aerosol Science</i> , 1994, 25, 521-522.	1.8	0
197	Instrument Intercomparison Study on Cloud Droplet Size Distribution Measurements: Holography vs. Laser Optical Particle Counter. , 1994, , 253-258.		0
198	In situ measurements constraining the role of sulphate aerosols in mid-latitude ozone depletion. <i>Nature</i> , 1993, 363, 509-514.	13.7	272

#	ARTICLE	IF	CITATIONS
199	On spatial distributions and inter-droplet distances measured in stratus clouds with in-line holography. Atmospheric Research, 1993, 29, 229-245.	1.8	22
200	Relationships between optical extinction, backscatter and aerosol surface and volume in the stratosphere following the eruption of Mt. Pinatubo. Geophysical Research Letters, 1993, 20, 2555-2558.	1.5	41
201	In-situ measurements of changes in stratospheric aerosol and the N_2O aerosol relationship inside and outside of the polar vortex. Geophysical Research Letters, 1993, 20, 2559-2562.	1.5	25
202	Application Of Microholography for Ground-based In Situ Measurements in Stratus Cloud Layers: A Case Study. Journal of Atmospheric and Oceanic Technology, 1993, 10, 277-293.	0.5	32
203	Aerosol size distributions in the marginal ice zone during the 1983 Marginal Ice Zone Experiment. Journal of Geophysical Research, 1987, 92, 6971-6976.	3.3	2
204	Wind tunnel experiments on the resuspension of sub-micrometer particles from a sand surface. Atmospheric Environment, 1987, 21, 1891-1898.	1.1	24
205	In-Situ Measurements of the Cloud Microphysical Structure Using Holography. , 0, , 196-209.		0