

Johannes Schneider

List of Publications by Year in descending order

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110
papers

13,915
citations

53939

47
h-index

29333

108
g-index

173
all docs

173
docs citations

173
times ranked

9620
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne survey of trace gases and aerosols over the Southern Baltic Sea: from clean marine boundary layer to shipping corridor effect. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1695349.	0.8	7
2	Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 380-390.	1.2	11
3	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
4	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
5	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
6	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3395-3425.	1.9	16
7	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
8	Technical note: Sea salt interference with black carbon quantification in snow samples using the single particle soot photometer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9329-9342.	1.9	3
9	Sources and nature of ice-nucleating particles in the free troposphere at Jungfraujoch in winter 2017. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16925-16953.	1.9	6
10	Real-time sensing of bioaerosols: Review and current perspectives. <i>Aerosol Science and Technology</i> , 2020, 54, 465-495.	1.5	144
11	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 661-684.	1.2	12
12	Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4757-4785.	1.9	40
13	Application of an O-ring pinch device as a constant-pressure inlet (CPI) for airborne sampling. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3651-3660.	1.2	9
14	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. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5923-5953.	1.2	10
15	New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002266.	1.3	15
16	A comprehensive characterization of ice nucleation by three different types of cellulose particles immersed in water. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4823-4849.	1.9	48
17	Field evaluation of a Portable Fine Particle Concentrator (PFPC) for ice nucleating particle measurements. <i>Aerosol Science and Technology</i> , 2019, 53, 1067-1078.	1.5	9
18	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2527-2560.	1.9	134

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19	Characterization of transport regimes and the polar dome during Arctic spring and summer using in situ aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15049-15071.	1.9	25
20	Remote biomass burning dominates southern West African air pollution during the monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15217-15234.	1.9	29
21	The Arctic Cloud Puzzle: Using ACLOUD/PASCAL Multiplatform Observations to Unravel the Role of Clouds and Aerosol Particles in Arctic Amplification. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 841-871.	1.7	145
22	A comprehensive in situ and remote sensing data set from the Arctic CLOUD Observations Using airborne measurements during polar Day (ACLOUD) campaign. <i>Earth System Science Data</i> , 2019, 11, 1853-1881.	3.7	42
23	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 921-961.	1.9	105
24	The impact of mineral dust on cloud formation during the Saharan dust event in April 2014 over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17545-17572.	1.9	19
25	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
26	Coal fly ash: linking immersion freezing behavior and physicochemical particle properties. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13903-13923.	1.9	27
27	Composition of ice particle residuals in mixed-phase clouds at Jungfraujoch (Switzerland): enrichment and depletion of particle groups relative to total aerosol. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13987-14003.	1.9	19
28	African volcanic emissions influencing atmospheric aerosols over the Amazon rain forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10391-10405.	1.9	16
29	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12185-12206.	1.9	30
30	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
31	Evidence for marine biogenic influence on summertime Arctic aerosol. <i>Geophysical Research Letters</i> , 2017, 44, 6460-6470.	1.5	56
32	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
33	Particulate trimethylamine in the summertime Canadian high Arctic lower troposphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13747-13766.	1.9	49
34	Summertime observations of elevated levels of ultrafine particles in the high Arctic marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5515-5535.	1.9	62
35	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
36	Aerosol Chemistry Resolved by Mass Spectrometry: Insights into Particle Growth after Ambient New Particle Formation. <i>Environmental Science & Technology</i> , 2016, 50, 10814-10822.	4.6	22

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37	Aerosol Chemistry Resolved by Mass Spectrometry: Linking Field Measurements of Cloud Condensation Nuclei Activity to Organic Aerosol Composition. <i>Environmental Science & Technology</i> , 2016, 50, 10823-10832.	4.6	22
38	Effects of 20–100 nm particles on liquid clouds in the clean summertime Arctic. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11107-11124.	1.9	94
39	Ship emissions measurement in the Arctic by plume intercepts of the Canadian Coast Guard icebreaker <i>Amundsen</i> from the <i>Polar 6</i> aircraft platform. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7899-7916.	1.9	32
40	Cloud water composition during HCCT-2010: Scavenging efficiencies, solute concentrations, and droplet size dependence of inorganic ions and dissolved organic carbon. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3185-3205.	1.9	57
41	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
42	Laboratory-generated mixtures of mineral dust particles with biological substances: characterization of the particle mixing state and immersion freezing behavior. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5531-5543.	1.9	58
43	Growth of nucleation mode particles in the summertime Arctic: a case study. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7663-7679.	1.9	111
44	Ice residual properties in mixed-phase clouds at the high-alpine Jungfraujoch site. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12343-12362.	1.2	25
45	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
46	Single-particle characterization of ice-nucleating particles and ice particle residuals sampled by three different techniques. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4161-4178.	1.9	38
47	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
48	Assessment of cloud supersaturation by size-resolved aerosol particle and cloud condensation nuclei (CCN) measurements. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2615-2629.	1.2	23
49	Volatile and intermediate volatility organic compounds in suburban Paris: variability, origin and importance for SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10439-10464.	1.9	97
50	Comprehensive assessment of meteorological conditions and airflow connectivity during HCCT-2010. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9105-9128.	1.9	15
51	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
52	Enhanced Role of Transition Metal Ion Catalysis During In-Cloud Oxidation of SO ₂ . <i>Science</i> , 2013, 340, 727-730.	6.0	286
53	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
54	The ToF-ACSM: a portable aerosol chemical speciation monitor with TOFMS detection. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3225-3241.	1.2	184

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55	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
56	Formation of organic aerosol in the Paris region during the MEGAPOLI summer campaign: evaluation of the volatility-basis-set approach within the CHIMERE model. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5767-5790.	1.9	105
57	Sub-Antarctic marine aerosol: dominant contributions from biogenic sources. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8669-8694.	1.9	82
58	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
59	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
60	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
61	Experimental study of the role of physicochemical surface processing on the IN ability of mineral dust particles. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11131-11144.	1.9	70
62	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
63	Physical and chemical properties of pollution aerosol particles transported from North America to Greenland as measured during the POLARCAT summer campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10947-10963.	1.9	30
64	Surface modification of mineral dust particles by sulphuric acid processing: implications for ice nucleation abilities. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7839-7858.	1.9	60
65	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
66	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11415-11438.	1.9	170
67	Irreversible loss of ice nucleation active sites in mineral dust particles caused by sulphuric acid condensation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11471-11487.	1.9	175
68	Heterogeneous freezing of droplets with immersed mineral dust particles – measurements and parameterization. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3601-3614.	1.9	138
69	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
70	Characterization of aerosol chemical composition with aerosol mass spectrometry in Central Europe: an overview. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10453-10471.	1.9	261
71	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
72	Soluble mass, hygroscopic growth, and droplet activation of coated soot particles during LACIS Experiment in November (LExNo). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40

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73	Examination of laboratory-generated coated soot particles: An overview of the LACIS Experiment in November (LExNo) campaign. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
74	Morphological characterization of soot aerosol particles during LACIS Experiment in November (LExNo). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
75	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
76	Airborne stratospheric ITCIMS measurements of SO ₂ , HCl, and HNO ₃ in the aged plume of volcano Kasatochi. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
77	Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. <i>Science</i> , 2010, 329, 1513-1516.	6.0	541
78	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
79	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	171
80	Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.	6.0	3,374
81	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
82	The effect of organic coating on the heterogeneous ice nucleation efficiency of mineral dust aerosols. <i>Environmental Research Letters</i> , 2008, 3, 025007.	2.2	230
83	Clouds and aerosols in Puerto Rico – a new evaluation. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1293-1309.	1.9	72
84	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
85	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
86	Counterflow Virtual Impactor Based Collection of Small Ice Particles in Mixed-Phase Clouds for the Physico-Chemical Characterization of Tropospheric Ice Nuclei: Sampler Description and First Case Study. <i>Aerosol Science and Technology</i> , 2007, 41, 848-864.	1.5	83
87	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
88	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
89	Composition and mixing state of the urban background aerosol in the Rhein-Main area (Germany). <i>Atmospheric Environment</i> , 2007, 41, 6102-6115.	1.9	71
90	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

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91	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
92	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
93	Size Matters More Than Chemistry for Cloud-Nucleating Ability of Aerosol Particles. <i>Science</i> , 2006, 312, 1375-1378.	6.0	871
94	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
95	Aerosol lidar intercomparison in the framework of the EARLINET project 2 Aerosol backscatter algorithms. <i>Applied Optics</i> , 2004, 43, 977.	2.1	178
96	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
97	Gaseous (DMS, MSA, SO ₂ , Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 512 Td (H&particulate (sulfate and methanesulfonate) sulfur species over the northeastern coast of Crete. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1871-1886.	1.9	86
98	Three years of routine Raman lidar measurements of tropospheric aerosols: Backscattering, extinction, and residual layer height. <i>Atmospheric Chemistry and Physics</i> , 2002, 2, 313-323.	1.9	22
99	Tropospheric aerosol layers after a cold front passage in January 2000 as observed at several stations of the German Lidar Network. <i>Atmospheric Research</i> , 2002, 63, 39-58.	1.8	7
100	Transport of boreal forest fire emissions from Canada to Europe. <i>Journal of Geophysical Research</i> , 2001, 106, 22887-22906.	3.3	283
101	Multiwavelength lidar observation of a strange noctilucent cloud at K ¹ / ₄ hlungsborn, Germany (54°N). <i>Journal of Geophysical Research</i> , 2001, 106, 7945-7953.	3.3	11
102	The temporal evolution of the ratio HNO ₃ /NO _y in the Arctic lower stratosphere from January to March 1997. <i>Geophysical Research Letters</i> , 1999, 26, 1125-1128.	1.5	18
103	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 49-59.	1.4	15
104	First gaseous ion composition measurements in the exhaust plume of a jet aircraft in flight: Implications for gaseous sulfuric acid, aerosols, and chemiions. <i>Geophysical Research Letters</i> , 1998, 25, 2137-2140.	1.5	27
105	Nitric acid (HNO ₃) in the upper troposphere and lower stratosphere at midlatitudes: New results from aircraft-based mass spectrometric measurements. <i>Journal of Geophysical Research</i> , 1998, 103, 25337-25343.	3.3	24
106	Observations of high concentrations of total reactive nitrogen (NO _y) and nitric acid (HNO ₃) in the lower Arctic stratosphere during the Stratosphere-Troposphere Experiment by Aircraft Measurements (STREAM) II campaign in February 1995. <i>Journal of Geophysical Research</i> , 1997, 102, 23559-23571.	3.3	37
107	Methyl cyanide and hydrogen cyanide measurements in the lower stratosphere: Implications for methyl cyanide sources and sinks. <i>Journal of Geophysical Research</i> , 1997, 102, 25501-25506.	3.3	54
108	Acetone in the upper troposphere and lower stratosphere: Impact on trace gases and aerosols. <i>Geophysical Research Letters</i> , 1997, 24, 3017-3020.	1.5	111

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109	Observation of upper tropospheric sulfur dioxide- and acetone-pollution: Potential implications for hydroxyl radical and aerosol formation. <i>Geophysical Research Letters</i> , 1997, 24, 57-60.	1.5	88
110	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1997, 26, 275-310.	1.4	28