

# Julia Schmale

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,302  
citations

249298

26  
h-index

263392

45  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Key challenges for tropospheric chemistry in the Southern Hemisphere. <i>Elementa</i> , 2022, 10, .	1.1	7
2	Overview of the MOSAiC expedition: Atmosphere. <i>Elementa</i> , 2022, 10, .	1.1	121
3	Elucidating the present-day chemical composition, seasonality and source regions of climate-relevant aerosols across the Arctic land surface. <i>Environmental Research Letters</i> , 2022, 17, 034032.	2.2	9
4	Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. <i>Nature Geoscience</i> , 2022, 15, 196-202.	5.4	31
5	Highly Active Iceâ€Nucleating Particles at the Summer North Pole. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	22
6	Pan-Arctic seasonal cycles and long-term trends of aerosol properties from 10 observatories. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3067-3096.	1.9	40
7	Model evaluation of short-lived climate forcings for the Arctic Monitoring and Assessment Programme: a multi-species, multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5775-5828.	1.9	15
8	Physical and Chemical Properties of Cloud Droplet Residuals and Aerosol Particles During the Arctic Ocean 2018 Expedition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	12
9	Annual cycle observations of aerosols capable of ice formation in central Arctic clouds. <i>Nature Communications</i> , 2022, 13, .	5.8	19
10	Aerosols in current and future Arctic climate. <i>Nature Climate Change</i> , 2021, 11, 95-105.	8.1	111
11	Large contribution to secondary organic aerosol from isoprene cloud chemistry. <i>Science Advances</i> , 2021, 7, .	4.7	24
12	Sources, Occurrence and Characteristics of Fluorescent Biological Aerosol Particles Measured Over the Pristine Southern Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034811.	1.2	15
13	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11317-11335.	1.9	7
14	Progress in Unraveling Atmospheric New Particle Formation and Growth Across the Arctic. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094198.	1.5	14
15	Black carbon and dust in the Third Pole glaciers: Revaluated concentrations, mass absorption cross-sections and contributions to glacier ablation. <i>Science of the Total Environment</i> , 2021, 789, 147746.	3.9	14
16	Insights into the molecular composition of semi-volatile aerosols in the summertime central Arctic Ocean using FIGAERO-CIMS. <i>Environmental Science Atmospheres</i> , 2021, 1, 161-175.	0.9	18
17	Lowâ€Volatility Vapors and New Particle Formation Over the Southern Ocean During the Antarctic Circumnavigation Expedition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035126.	1.2	14
18	New Insights Into the Composition and Origins of Ultrafine Aerosol in the Summertime High Arctic. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094395.	1.5	17

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19	Constraining the response factors of an extractive electrospray ionization mass spectrometer for near-molecular aerosol speciation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6955-6972.	1.2	10
20	Exploring the coupled ocean and atmosphere system with a data science approach applied to observations from the Antarctic Circumnavigation Expedition. <i>Earth System Dynamics</i> , 2021, 12, 1295-1369.	2.7	12
21	Black Carbon Aerosols in the Lower Free Troposphere are Heavily Coated in Summer but Largely Uncoated in Winter at Jungfraujoch in the Swiss Alps. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088011.	1.5	9
22	Prepare Scientists to Engage in Scienceâ€Policy. <i>Earth's Future</i> , 2020, 8, e2020EF001628.	2.4	6
23	Frequent new particle formation over the high Arctic pack ice by enhanced iodine emissions. <i>Nature Communications</i> , 2020, 11, 4924.	5.8	96
24	Satellite Retrieval of Cloud Condensation Nuclei Concentrations in Marine Stratocumulus by Using Clouds as CCN Chambers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032409.	1.2	14
25	Meridional and vertical variations of the water vapour isotopic composition in the marine boundary layer over the Atlantic and Southern Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5811-5835.	1.9	28
26	Online Aerosol Chemical Characterization by Extractive Electrospray Ionizationâ€“Ultrahigh-Resolution Mass Spectrometry (EESI-Orbitrap). <i>Environmental Science &amp; Technology</i> , 2020, 54, 3871-3880.	4.6	25
27	The value of remote marine aerosol measurements for constraining radiative forcing uncertainty. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10063-10072.	1.9	27
28	Ship-based measurements of ice nuclei concentrations over the Arctic, Atlantic, Pacific and Southern oceans. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15191-15206.	1.9	40
29	Overview: Integrative and Comprehensive Understanding on Polar Environments (iCUPE) â€“ concept and initial results. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8551-8592.	1.9	26
30	Using global reanalysis data to quantify and correct airflow distortion bias in shipborne wind speed measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3487-3506.	1.2	8
31	Dissolved organic carbon in snow cover of the Chinese Altai Mountains, Central Asia: Concentrations, sources and light-absorption properties. <i>Science of the Total Environment</i> , 2019, 647, 1385-1397.	3.9	39
32	Overview of the Antarctic Circumnavigation Expedition: Study of Preindustrial-like Aerosols and Their Climate Effects (ACE-SPACE). <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2260-2283.	1.7	71
33	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8591-8617.	1.9	60
34	Cloud droplet activation properties and scavenged fraction of black carbon in liquid-phase clouds at the high-alpine research station Jungfraujoch (3580â€“mâ€“a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3833-3855.	1.9	25
35	Variation of Ice Nucleating Particles in the European Arctic Over the Last Centuries. <i>Geophysical Research Letters</i> , 2019, 46, 4007-4016.	1.5	40
36	Droplet activation behaviour of atmospheric black carbon particles in fog as a function of their size and mixing state. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2183-2207.	1.9	17

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37	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	1.1	6
38	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2853-2881.	1.9	108
39	Long-term monitoring of black carbon across Germany. <i>Atmospheric Environment</i> , 2018, 185, 41-52.	1.9	44
40	Local Arctic Air Pollution: A Neglected but Serious Problem. <i>Earth's Future</i> , 2018, 6, 1385-1412.	2.4	96
41	Modulation of snow reflectance and snowmelt from Central Asian glaciers by anthropogenic black carbon. <i>Scientific Reports</i> , 2017, 7, 40501.	1.6	63
42	The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1857-1877.	1.7	52
43	Collocated observations of cloud condensation nuclei, particle size distributions, and chemical composition. <i>Scientific Data</i> , 2017, 4, 170003.	2.4	44
44	Light-absorbing impurities enhance glacier albedo reduction in the southeastern Tibetan plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6915-6933.	1.2	114
45	Setting the aerosol baseline – an Antarctic opportunity. <i>Antarctic Science</i> , 2017, 29, 297-297.	0.5	1
46	A survey on the perceived need and value of decision-support tools for joint mitigation of air pollution and climate change in cities. <i>Elementa</i> , 2017, 5, .	1.1	2
47	Sustainable policy – key considerations for air quality and climate change. <i>Current Opinion in Environmental Sustainability</i> , 2016, 23, 85-91.	3.1	31
48	Measurement of ammonia emissions from temperate and sub-polar seabird colonies. <i>Atmospheric Environment</i> , 2016, 134, 40-50.	1.9	24
49	Short-term solutions. <i>Nature Climate Change</i> , 2016, 6, 234-235.	8.1	1
50	Building Interfaces That Work: A Multi-stakeholder Approach to Air Pollution and Climate Change Mitigation. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 65-76.	1.1	1
51	An Integrated Assessment Method for Sustainable Transport System Planning in a Middle Sized German City. <i>Sustainability</i> , 2015, 7, 1329-1354.	1.6	21
52	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	1.7	138
53	New Directions: Support for integrated decision-making in air and climate policies – Development of a metrics-based information portal. <i>Atmospheric Environment</i> , 2014, 90, 146-148.	1.9	13
54	Air pollution: Clean up our skies. <i>Nature</i> , 2014, 515, 335-337.	13.7	99

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55	Sub-Antarctic marine aerosol: dominant contributions from biogenic sources. Atmospheric Chemistry and Physics, 2013, 13, 8669-8694.	1.9	82
56	Future Arctic Research: Integrative Approaches to Scientific and Methodological Challenges. Eos, 2013, 94, 292-292.	0.1	2
57	Development of procedures in Rapid Manufacturing to improve individual therapy in Rehabilitation. Biomedizinische Technik, 2012, 57, .	0.9	0
58	Early Career Researchers and Mentors Work Together to Shape the Future of the Arctic Monitoring and Assessment Programme. Arctic, 2012, 65, .	0.2	2
59	Source identification and airborne chemical characterisation of aerosol pollution from long-range transport over Greenland during POLARCAT summer campaign 2008. Atmospheric Chemistry and Physics, 2011, 11, 10097-10123.	1.9	52
60	Physical and chemical properties of pollution aerosol particles transported from North America to Greenland as measured during the POLARCAT summer campaign. Atmospheric Chemistry and Physics, 2011, 11, 10947-10963.	1.9	30
61	In-situ observations of young contrails “ overview and selected results from the CONCERT campaign. Atmospheric Chemistry and Physics, 2010, 10, 9039-9056.	1.9	93
62	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. Journal of Geophysical Research, 2010, 115, .	3.3	46
63	Airborne stratospheric ITCIMS measurements of SO <sub>2</sub> , HCl, and HNO <sub>3</sub> in the aged plume of volcano Kasatochi. Journal of Geophysical Research, 2010, 115, .	3.3	36
64	Laboratory pre-assays for soil remediation by electro synthesis of oxidants and their electrokinetic distribution. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 907-912.	0.9	5