Paul C Zieger

List of Publications by Year
in descending order

56 papers	2,838 citations	185998 28 h-index	189595 50 g-index
106 all docs	106 docs citations	106 times ranked	3490 citing authors

#	Article	IF	Citations
1	Composition, isotopic fingerprint and source attribution of nitrate deposition from rain and fog at a Sub-Arctic Mountain site in Central Sweden (Mt Ã…reskutan). Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1559398.	0.8	6
2	Physical and chemical properties of aerosol particles and cloud residuals on Mt. Åreskutan in Central Sweden during summer 2014. Tellus, Series B: Chemical and Physical Meteorology, 2022, 72, 1776080.	0.8	5
3	Tropical and Boreal Forest â€“ Atmosphere Interactions: A Review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 74, 24.	0.8	27
4	Atmospheric composition in the European Arctic and 30Âyears of the Zeppelin Observatory, Ny-Ã…lesund. Atmospheric Chemistry and Physics, 2022, 22, 3321-3369.	1.9	24
5	Highly Active Iceâ€Nucleating Particles at the Summer North Pole. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	22
6	Physical and Chemical Properties of Cloud Droplet Residuals and Aerosol Particles During the Arctic Ocean 2018 Expedition. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	12
7	The development of a miniaturised balloon-borne cloud water sampler and its first deployment in the high Arctic. Tellus, Series B: Chemical and Physical Meteorology, 2021, 73, 1-12.	0.8	7
8	Using correlations between observed equivalent black carbon and aerosol size distribution to derive size resolved BC mass concentration: a method applied on long-term observations performed at Zeppelin station, Ny-Ã…lesund, Svalbard. Tellus, Series B: Chemical and Physical Meteorology, 2021, 73, 1-17.	0.8	2
9	Aerosols in current and future Arctic climate. Nature Climate Change, 2021, 11, 95-105.	8.1	111
10	Differing Mechanisms of New Particle Formation at Two Arctic Sites. Geophysical Research Letters, 2021, 48, e2020GL091334.	1.5	70
11	Sea Spray Aerosol Chamber Study on Selective Transfer and Enrichment of Free and Combined Amino Acids. ACS Earth and Space Chemistry, 2021, 5, 1564-1574.	1.2	8
12	A long-term study of cloud residuals from low-level Arctic clouds. Atmospheric Chemistry and Physics, 2021, 21, 8933-8959.	1.9	15
13	A global study of hygroscopicity-driven light-scattering enhancement in the context of other in situ aerosol optical properties. Atmospheric Chemistry and Physics, 2021, 21, 13031-13050.	1.9	7
14	Insights into the molecular composition of semi-volatile aerosols in the summertime central Arctic Ocean using FIGAERO-CIMS. Environmental Science Atmospheres, 2021, 1, 161-175.	0.9	18
15	New Insights Into the Composition and Origins of Ultrafine Aerosol in the Summertime High Arctic. Geophysical Research Letters, 2021, 48, e2021GL094395.	1.5	17
16	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. Atmospheric Measurement Techniques, 2021, 14, 6723-6748.	1.2	19
17	The MILAN Campaign: Studying Diel Light Effects on the Airâ€“Sea Interface. Bulletin of the American Meteorological Society, 2020, 101, E146-E166.	1.7	14
18	Influence of Organic Acids on the Surface Composition of Sea Spray Aerosol. Journal of Physical Chemistry A, 2020, 124, 422-429.	1.1	12

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19	Frequent new particle formation over the high Arctic pack ice by enhanced iodine emissions. Nature Communications, 2020, 11, 4924.	5.8	96
20	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. Atmospheric Chemistry and Physics, 2020, 20, 10231-10258.	1.9	19
21	From a polar to a marine environment: has the changing Arctic led to a shift in aerosol light scattering properties?. Atmospheric Chemistry and Physics, 2020, 20, 13671-13686.	1.9	20
22	Multidecadal trend analysis of in situ aerosol radiative properties around the world. Atmospheric Chemistry and Physics, 2020, 20, 8867-8908.	1.9	58
23	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	1.2	65
24	The Milan Campaign: Studying the Sea Surface Microlayer. Bulletin of the American Meteorological Society, 2020, 101, 299-304.	1.7	0
25	A global view on the effect of water uptake on aerosol particle light scattering. Scientific Data, 2019, 6, 157.	2.4	28
26	The radiative impact of out-of-cloud aerosol hygroscopic growth during the summer monsoon in southern West Africa. Atmospheric Chemistry and Physics, 2019, 19, 1505-1520.	1.9	20
27	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. Atmospheric Chemistry and Physics, 2019, 19, 2015-2061.	1.9	42
28	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. Elementa, 2019, 7, .	1.1	6
29	Chemical composition and source analysis of carbonaceous aerosol particles at a mountaintop site in central Sweden. Tellus, Series B: Chemical and Physical Meteorology, 2017, 69, 1353387.	0.8	6
30	Revising the hygroscopicity of inorganic sea salt particles. Nature Communications, 2017, 8, 15883.	5.8	173
31	LOAC: a small aerosol optical counter/sizer for ground-based and balloon measurements of the size distribution and nature of atmospheric particles â€“ Part 2: First results from balloon and unmanned aerial vehicle flights. Atmospheric Measurement Techniques, 2016, 9, 3673-3686.	1.2	59
32	LOAC: a small aerosol optical counter/sizer for ground-based and balloon measurements of the size distribution and nature of atmospheric particles â€“ Part 1: Principle of measurements and instrument evaluation. Atmospheric Measurement Techniques, 2016, 9, 1721-1742.	1.2	81
33	Intercomparison of aerosol extinction profiles retrieved from MAX-DOAS measurements. Atmospheric Measurement Techniques, 2016, 9, 3205-3222.	1.2	53
34	A Review of More than 20 Years of Aerosol Observation at the High Altitude Research Station Jungfraujoch, Switzerland (3580 m asl). Aerosol and Air Quality Research, 2016, 16, 764-788.	0.9	55
35	Effect of hygroscopic growth on the aerosol light-scattering coefficient: A review of measurements, techniques and error sources. Atmospheric Environment, 2016, 141, 494-507.	1.9	107
36	Calcium enrichment in sea spray aerosol particles. Geophysical Research Letters, 2016, 43, 8277-8285.	1.5	62

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37	An empirically derived inorganic sea spray source function incorporating sea surface temperature. Atmospheric Chemistry and Physics, 2015, 15, 11047-11066.	1.9	70
38	Low hygroscopic scattering enhancement of boreal aerosol and the implications for a columnar optical closure study. Atmospheric Chemistry and Physics, 2015, 15, 7247-7267.	1.9	32
39	The white-light humidified optical particle spectrometer (WHOPS) â€“ a novel airborne system to characterize aerosol hygroscopicity. Atmospheric Measurement Techniques, 2015, 8, 921-939.	1.2	15
40	Influence of water uptake on the aerosol particle light scattering coefficients of the Central European aerosol. Tellus, Series B: Chemical and Physical Meteorology, 2014, 66, 22716.	0.8	61
41	Investigation of the Planetary Boundary Layer in the Swiss Alps Using Remote Sensing and In Situ Measurements. Boundary-Layer Meteorology, 2014, 151, 317-334.	1.2	41
42	Reconciling aerosol light extinction measurements from spaceborne lidar observations and in situ measurements in the Arctic. Atmospheric Chemistry and Physics, 2014, 14, 7869-7882.	1.9	20
43	Seasonal variation of aerosol water uptake and its impact on the direct radiative effect at Ny-Ã…lesund, Svalbard. Atmospheric Chemistry and Physics, 2014, 14, 7445-7460.	1.9	29
44	Modeling aerosol water uptake in the arctic based on the Î°-Kohler theory. , 2013, , .		0
45	Effects of relative humidity on aerosol light scattering: results from different European sites. Atmospheric Chemistry and Physics, 2013, 13, 10609-10631.	1.9	184
46	Sensitivity of the Single Particle Soot Photometer to different black carbon types. Atmospheric Measurement Techniques, 2012, 5, 1031-1043.	1.2	191
47	Evaluating the capabilities and uncertainties of droplet measurements for the fog droplet spectrometer (FM-100). Atmospheric Measurement Techniques, 2012, 5, 2237-2260.	1.2	75
48	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. Atmospheric Measurement Techniques, 2012, 5, 457-485.	1.2	83
49	Spatial variation of aerosol optical properties around the high-alpine site Jungfraujoch (3580 m a.s.l.). Atmospheric Chemistry and Physics, 2012, 12, 7231-7249.	1.9	55
50	Ground-based and airborne in-situ measurements of the EyjafjallajÃ¶kull volcanic aerosol plume in Switzerland in spring 2010. Atmospheric Chemistry and Physics, 2011, 11, 10011-10030.	1.9	87
51	Comparison of ambient aerosol extinction coefficients obtained from in-situ, MAX-DOAS and LIDAR measurements at Cabauw. Atmospheric Chemistry and Physics, 2011, 11, 2603-2624.	1.9	126
52	Measured and predicted aerosol light scattering enhancement factors at the high alpine site Jungfraujoch. Atmospheric Chemistry and Physics, 2010, 10, 2319-2333.	1.9	92
53	Effects of relative humidity on aerosol light scattering in the Arctic. Atmospheric Chemistry and Physics, 2010, 10, 3875-3890.	1.9	124
54	Measurement of relative humidity dependent light scattering of aerosols. Atmospheric Measurement Techniques, 2010, 3, 39-50.	1.2	88

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55	Light scattering enhancement factors in the marine boundary layer (Mace Head, Ireland). Journal of Geophysical Research, 2010, 115, .	3.3	48
56	Dual-aureole and sun spectrometer system for airborne measurements of aerosol optical properties. Applied Optics, 2007, 46, 8542.	2.1	16