

Sabine Eckhardt

List of Publications by Year in descending order

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109
papers

9,769
citations

38742

50
h-index

43889

91
g-index

177
all docs

177
docs citations

177
times ranked

9702
citing authors

#	ARTICLE	IF	CITATIONS
1	Arctic haze over Central Europe. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 796.	1.6	4
2	Atmospheric composition in the European Arctic and 30 years of the Zeppelin Observatory, Ny-Ålesund. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3321-3369.	4.9	24
3	What caused a record high PM ₁₀ episode in northern Europe in October 2020?. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3789-3810.	4.9	8
4	Sources and fate of atmospheric microplastics revealed from inverse and dispersion modelling: From global emissions to deposition. <i>Journal of Hazardous Materials</i> , 2022, 432, 128585.	12.4	33
5	Microplastics and nanoplastics in the marine-atmosphere environment. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 393-405.	29.7	121
6	Model evaluation of short-lived climate forcers for the Arctic Monitoring and Assessment Programme: a multi-species, multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5775-5828.	4.9	15
7	Thallium Pollution in Europe Over the Twentieth Century Recorded in Alpine Ice: Contributions From Coal Burning and Cement Production. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
8	Introducing a nested multimedia fate and transport model for organic contaminants (NEM). <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1146-1157.	3.5	4
9	Changes in black carbon emissions over Europe due to COVID-19 lockdowns. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2675-2692.	4.9	40
10	Alpine Ice Core Evidence of a Large Increase in Vanadium and Molybdenum Pollution in Western Europe During the 20th Century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033211.	3.3	10
11	Observed and Modeled Black Carbon Deposition and Sources in the Western Russian Arctic 1800–2014. <i>Environmental Science & Technology</i> , 2021, 55, 4368-4377.	10.0	9
12	10-year satellite-constrained fluxes of ammonia improve performance of chemistry transport models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4431-4451.	4.9	21
13	Black Carbon Emission Reduction Due to COVID-19 Lockdown in China. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093243.	4.0	20
14	Trends, composition, and sources of carbonaceous aerosol at the Birkenes Observatory, northern Europe, 2001–2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7149-7170.	4.9	12
15	Main sources controlling atmospheric burdens of persistent organic pollutants on a national scale. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112172.	6.0	5
16	Reviews and syntheses: Arctic fire regimes and emissions in the 21st century. <i>Biogeosciences</i> , 2021, 18, 5053-5083.	3.3	59
17	Characterization of the atmospheric environment during extreme precipitation events associated with atmospheric rivers in Norway - Seasonal and regional aspects. <i>Weather and Climate Extremes</i> , 2021, 34, 100370.	4.1	9
18	Hemispheric black carbon increase after the 13th-century Māori arrival in New Zealand. <i>Nature</i> , 2021, 598, 82-85.	27.8	20

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19	Atmospheric transport is a major pathway of microplastics to remote regions. <i>Nature Communications</i> , 2020, 11, 3381.	12.8	489
20	Cadmium Pollution From Zinc Smelters up to Fourfold Higher Than Expected in Western Europe in the 1980s as Revealed by Alpine Ice. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087537.	4.0	13
21	Uncovering transport, deposition and impact of radionuclides released after the early spring 2020 wildfires in the Chernobyl Exclusion Zone. <i>Scientific Reports</i> , 2020, 10, 10655.	3.3	20
22	Pervasive Arctic lead pollution suggests substantial growth in medieval silver production modulated by plague, climate, and conflict. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14910-14915.	7.1	50
23	Open fires in Greenland in summer 2017: transport, deposition and radiative effects of BC, OC and BrC emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1393-1411.	4.9	46
24	The EMEP Intensive Measurement Period campaign, 2008–2009: characterizing carbonaceous aerosol at nine rural sites in Europe. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4211-4233.	4.9	20
25	Lead and Antimony in Basal Ice From Col du Dome (French Alps) Dated With Radiocarbon: A Record of Pollution During Antiquity. <i>Geophysical Research Letters</i> , 2019, 46, 4953-4961.	4.0	41
26	Source apportionment of circum-Arctic atmospheric black carbon from isotopes and modeling. <i>Science Advances</i> , 2019, 5, eaau8052.	10.3	68
27	The Lagrangian particle dispersion model FLEXPART version 10.4. <i>Geoscientific Model Development</i> , 2019, 12, 4955-4997.	3.6	238
28	Origin of elemental carbon in snow from western Siberia and northwestern European Russia during winter–spring 2014, 2015 and 2016. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 963-977.	4.9	24
29	Low concentrations of persistent organic pollutants (POPs) in air at Cape Verde. <i>Science of the Total Environment</i> , 2018, 612, 129-137.	8.0	12
30	Assessing temporal trends and source regions of per- and polyfluoroalkyl substances (PFASs) in air under the Arctic Monitoring and Assessment Programme (AMAP). <i>Atmospheric Environment</i> , 2018, 172, 65-73.	4.1	87
31	Top-down estimates of black carbon emissions at high latitudes using an atmospheric transport model and a Bayesian inversion framework. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15307-15327.	4.9	10
32	A satellite-based estimate of combustion aerosol cloud microphysical effects over the Arctic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14949-14964.	4.9	14
33	Methane at Svalbard and over the European Arctic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17207-17224.	4.9	19
34	Lead pollution recorded in Greenland ice indicates European emissions tracked plagues, wars, and imperial expansion during antiquity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5726-5731.	7.1	174
35	Siberian Arctic black carbon sources constrained by model and observation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1054-E1061.	7.1	80
36	Black Carbon Sources Constrained by Observations in the Russian High Arctic. <i>Environmental Science & Technology</i> , 2017, 51, 3871-3879.	10.0	43

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37	Temporal and spatial variability of Icelandic dust emissions and atmospheric transport. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10865-10878.	4.9	37
38	Rainfall drives atmospheric ice-nucleating particles in the coastal climate of southern Norway. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11065-11073.	4.9	22
39	Source attribution using FLEXPART and carbon monoxide emission inventories: SOFT-IO version 1.0. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15271-15292.	4.9	23
40	Aerosol indirect effects on the nighttime Arctic Ocean surface from thin, predominantly liquid clouds. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7311-7332.	4.9	16
41	A new aerosol wet removal scheme for the Lagrangian particle model FLEXPART v10. <i>Geoscientific Model Development</i> , 2017, 10, 1447-1466.	3.6	68
42	Source-receptor matrix calculation for deposited mass with the Lagrangian particle dispersion model FLEXPART v10.2 in backward mode. <i>Geoscientific Model Development</i> , 2017, 10, 4605-4618.	3.6	35
43	The sources of atmospheric black carbon at a European gateway to the Arctic. <i>Nature Communications</i> , 2016, 7, 12776.	12.8	69
44	Effects of long-range aerosol transport on the microphysical properties of low-level liquid clouds in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4661-4674.	4.9	22
45	Wildfires in northern Eurasia affect the budget of black carbon in the Arctic – a 12-year retrospective synopsis (2002–2013). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7587-7604.	4.9	56
46	Constraints on oceanic methane emissions west of Svalbard from atmospheric in situ measurements and Lagrangian transport modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14188-14200.	3.3	10
47	Light-absorbing properties of ambient black carbon and brown carbon from fossil fuel and biomass burning sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6619-6633.	3.3	98
48	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9413-9433.	4.9	145
49	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.	4.9	92
50	Evaluating the climate and air quality impacts of short-lived pollutants. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10529-10566.	4.9	365
51	Aerosol radiative forcing from the 2010 Eyjafjallajökull volcanic eruptions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9481-9491.	3.3	24
52	Long-term trends in aerosol and precipitation composition over the western North Atlantic Ocean at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8119-8135.	4.9	19
53	Quantifying black carbon from biomass burning by means of levoglucosan – a one-year time series at the Arctic observatory Zeppelin. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6427-6442.	4.9	71
54	Flow climatology for physicochemical properties of dichotomous aerosol over the western North Atlantic Ocean at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 691-717.	4.9	12

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55	Atmospheric polychlorinated biphenyls in Indian cities: Levels, emission sources and toxicity equivalents. <i>Environmental Pollution</i> , 2013, 182, 283-290.	7.5	61
56	Natural iron fertilization by the Eyjafjallajökull volcanic eruption. <i>Geophysical Research Letters</i> , 2013, 40, 921-926.	4.0	113
57	Forecasting long-range atmospheric transport episodes of polychlorinated biphenyls using FLEXPART. <i>Atmospheric Environment</i> , 2013, 71, 335-339.	4.1	6
58	Simulation of SEVIRI infrared channels: a case study from the Eyjafjallajökull April/May 2010 eruption. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 649-660.	3.1	9
59	Correction for Yasunari et al., Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7525-7528.	7.1	6
60	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.	4.9	101
61	Long-term monitoring of persistent organic pollutants (POPs) at the Norwegian Troll station in Dronning Maud Land, Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6983-6992.	4.9	78
62	Black carbon physical properties and mixing state in the European megacity Paris. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5831-5856.	4.9	174
63	The influence of cruise ship emissions on air pollution in Svalbard – a harbinger of a more polluted Arctic?. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8401-8409.	4.9	94
64	Black carbon in the Arctic: the underestimated role of gas flaring and residential combustion emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8833-8855.	4.9	330
65	The dispersion characteristics of air pollution from the world's megacities. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9975-9996.	4.9	28
66	Uncertainties in the inverse modelling of sulphur dioxide eruption profiles. <i>Geomatics, Natural Hazards and Risk</i> , 2012, 3, 97-97.	4.3	0
67	Sources and mixing state of size-resolved elemental carbon particles in a European megacity: Paris. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1681-1700.	4.9	128
68	Xenon-133 and caesium-137 releases into the atmosphere from the Fukushima Dai-ichi nuclear power plant: determination of the source term, atmospheric dispersion, and deposition. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2313-2343.	4.9	510
69	CARIBIC aircraft measurements of Eyjafjallajökull volcanic clouds in April/May 2010. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 879-902.	4.9	25
70	Performance assessment of a volcanic ash transport model mini-ensemble used for inverse modeling of the 2010 Eyjafjallajökull eruption. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	83
71	Identifying the Research and Infrastructure Needs for the Global Assessment of Hazardous Chemicals Ten Years after Establishing the Stockholm Convention. <i>Environmental Science & Technology</i> , 2011, 45, 7617-7619.	10.0	25
72	Evidence for Major Emissions of PCBs in the West African Region. <i>Environmental Science & Technology</i> , 2011, 45, 1349-1355.	10.0	90

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73	Source apportionment of the summer time carbonaceous aerosol at Nordic rural background sites. Atmospheric Chemistry and Physics, 2011, 11, 13339-13357.	4.9	99
74	Spatial variability of POPs in European background air. Atmospheric Chemistry and Physics, 2011, 11, 1549-1564.	4.9	118
75	Determination of time- and height-resolved volcanic ash emissions and their use for quantitative ash dispersion modeling: the 2010 Eyjafjallajökull eruption. Atmospheric Chemistry and Physics, 2011, 11, 4333-4351.	4.9	333
76	Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19530-19534.	7.1	551
77	Uncertainties in the inverse modelling of sulphur dioxide eruption profiles. Geomatics, Natural Hazards and Risk, 2011, 2, 201-216.	4.3	28
78	Source identification of short-lived air pollutants in the Arctic using statistical analysis of measurement data and particle dispersion model output. Atmospheric Chemistry and Physics, 2010, 10, 669-693.	4.9	218
79	Long-term trends of black carbon and sulphate aerosol in the Arctic: changes in atmospheric transport and source region emissions. Atmospheric Chemistry and Physics, 2010, 10, 9351-9368.	4.9	169
80	Lidar measurements of the Kasatochi aerosol plume in August and September 2008 in Ny-Ålesund, Spitsbergen. Journal of Geophysical Research, 2010, 115, .	3.3	34
81	Remote sensing and inverse transport modeling of the Kasatochi eruption sulfur dioxide cloud. Journal of Geophysical Research, 2010, 115, .	3.3	93
82	Transport of mercury in the Arctic atmosphere: Evidence for a spring-time net sink and summer-time source. Geophysical Research Letters, 2009, 36, .	4.0	62
83	Summertime buildup and decay of lightning NO _x and aged thunderstorm outflow above North America. Journal of Geophysical Research, 2009, 114, .	3.3	34
84	An analytical inversion method for determining regional and global emissions of greenhouse gases: Sensitivity studies and application to halocarbons. Atmospheric Chemistry and Physics, 2009, 9, 1597-1620.	4.9	204
85	Source regions of some persistent organic pollutants measured in the atmosphere at Birkenes, Norway. Atmospheric Chemistry and Physics, 2009, 9, 6597-6610.	4.9	22
86	Estimation of the vertical profile of sulfur dioxide injection into the atmosphere by a volcanic eruption using satellite column measurements and inverse transport modeling. Atmospheric Chemistry and Physics, 2008, 8, 3881-3897.	4.9	175
87	Mixing between a stratospheric intrusion and a biomass burning plume. Atmospheric Chemistry and Physics, 2007, 7, 4229-4235.	4.9	42
88	Record high peaks in PCB concentrations in the Arctic atmosphere due to long-range transport of biomass burning emissions. Atmospheric Chemistry and Physics, 2007, 7, 4527-4536.	4.9	106
89	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. Journal of Geophysical Research, 2007, 112, .	3.3	81
90	Backscatter lidar observation of the aerosol stratification in the lower troposphere during winter Bise: a case study. Meteorologische Zeitschrift, 2005, 14, 663-669.	1.0	6

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91	'SSW to NNE' - North Atlantic Oscillation affects the progress of seasons across Europe. <i>Global Change Biology</i> , 2005, 11, 909-918.	9.5	66
92	Sampling of an STT event over the Eastern Mediterranean region by lidar and electrochemical sonde. <i>Annales Geophysicae</i> , 2005, 23, 2039-2050.	1.6	16
93	A springtime comparison of tropospheric ozone and transport pathways on the east and west coasts of the United States. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	47
94	Climatological aspects of the extreme European rainfall of August 2002 and a trajectory method for estimating the associated evaporative source regions. <i>Natural Hazards and Earth System Sciences</i> , 2004, 4, 733-746.	3.6	94
95	Lagrangian transport model forecasts and a transport climatology for the Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) measurement campaign. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	60
96	Boreal forest fires in 1997 and 1998: a seasonal comparison using transport model simulations and measurement data. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1857-1868.	4.9	37
97	A 15-Year Climatology of Warm Conveyor Belts. <i>Journal of Climate</i> , 2004, 17, 218-237.	3.2	267
98	Arctic haze over Central Europe. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 796-807.	1.6	12
99	A 15-year climatology of stratosphere-troposphere exchange with a Lagrangian particle dispersion model: 1. Methodology and validation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	43
100	A 15-year climatology of stratosphere-troposphere exchange with a Lagrangian particle dispersion model 2. Mean climate and seasonal variability. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	106
101	A backward modeling study of intercontinental pollution transport using aircraft measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	286
102	Saharan dust over a central European EARLINET-AERONET site: Combined observations with Raman lidar and Sun photometer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	98
103	Long-range transport of Saharan dust to northern Europe: The 11-16 October 2001 outbreak observed with EARLINET. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	229
104	Dependence of solar radiative forcing of forest fire aerosol on ageing and state of mixture. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 881-891.	4.9	65
105	The North Atlantic Oscillation controls air pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1769-1778.	4.9	227
106	Rapid intercontinental air pollution transport associated with a meteorological bomb. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 969-985.	4.9	62
107	On the pathways and timescales of intercontinental air pollution transport. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 6-1-ACH 6-17.	3.3	305
108	A replacement for simple back trajectory calculations in the interpretation of atmospheric trace substance measurements. <i>Atmospheric Environment</i> , 2002, 36, 4635-4648.	4.1	210

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109	Arctic air pollution: Challenges and opportunities for the next decade. Elementa, 0, 4, 000104.	3.2	53