

Susanne Preunkert

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,813
citations

159585

30
h-index

214800

47
g-index

100
all docs

100
docs citations

100
times ranked

3025
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatology of aerosol composition (organic versus inorganic) at nonurban sites on a west–east transect across Europe. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	228
2	Origin of C ₂ –C ₅ dicarboxylic acids in the European atmosphere inferred from year-round aerosol study conducted at a west–east transect. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	141
3	Snow optical properties at Dome C (Concordia), Antarctica; implications for snow emissions and snow chemistry of reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9787-9801.	4.9	100
4	Sea spray aerosol in central Antarctica. Present atmospheric behaviour and implications for paleoclimatic reconstructions. <i>Atmospheric Environment</i> , 2012, 52, 109-120.	4.1	97
5	Seasonality of sulfur species (dimethyl sulfide, sulfate, and methanesulfonate) in Antarctica: Inland versus coastal regions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	81
6	Major 20th century changes of carbonaceous aerosol components (EC, WinOC, DOC, HULIS, carboxylic) Tj ETQq0 0.0 rgBT /Overlock 10	3.3	80
7	Particulate carbon in precipitation at European background sites. <i>Journal of Aerosol Science</i> , 2010, 41, 51-61.	3.8	80
8	Year-round record of surface ozone at coastal (Dumont d'Urville) and inland (Concordia) sites in East Antarctica. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	71
9	Sulfate trends in a Col du D'Áme (French Alps) ice core: A record of anthropogenic sulfate levels in the European midtroposphere over the twentieth century. <i>Journal of Geophysical Research</i> , 2001, 106, 31991-32004.	3.3	70
10	Boreal fire records in Northern Hemisphere ice cores: a review. <i>Climate of the Past</i> , 2016, 12, 2033-2059.	3.4	70
11	Year-round record of size-segregated aerosol composition in central Antarctica (Concordia station): Implications for the degree of fractionation of sea-salt particles. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	68
12	Water-soluble organic carbon in snow and ice deposited at Alpine, Greenland, and Antarctic sites: a critical review of available data and their atmospheric relevance. <i>Climate of the Past</i> , 2013, 9, 2195-2211.	3.4	68
13	Modeling historical long-term trends of sulfate, ammonium, and elemental carbon over Europe: A comparison with ice core records in the Alps. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	67
14	A seasonally resolved alpine ice core record of nitrate: Comparison with anthropogenic inventories and estimation of preindustrial emissions of NO in Europe. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	55
15	Year-round records of sea salt, gaseous, and particulate inorganic bromine in the atmospheric boundary layer at coastal (Dumont d'Urville) and central (Concordia) East Antarctic sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 997-1023.	3.3	55
16	Alpine ice evidence of a three-fold increase in atmospheric iodine deposition since 1950 in Europe due to increasing oceanic emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12136-12141.	7.1	53
17	Towards a quasi-complete reconstruction of past atmospheric aerosol load and composition (organic and inorganic) over Europe since 1920 inferred from Alpine ice cores. <i>Climate of the Past</i> , 2013, 9, 1403-1416.	3.4	50
18	Measurements of OH and RO ₂ radicals at Dome C, East Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12373-12392.	4.9	50

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19	Northward Transport of Saharan Dust Recorded in a Deep Alpine Ice Core. Environmental Science and Technology Library, 1996, , 291-300.	0.1	50
20	Large mixing ratios of atmospheric nitrous acid (HONO) at Concordia (East Antarctic Plateau) in summer: a strong source from surface snow?. Atmospheric Chemistry and Physics, 2014, 14, 9963-9976.	4.9	47
21	Interannual variability of dimethylsulfide in air and seawater and its atmospheric oxidation by-products (methanesulfonate and sulfate) at Dumont d'Urville, coastal Antarctica (1999â€“2003). Journal of Geophysical Research, 2007, 112, .	3.3	45
22	Atmospheric nitrogen oxides (NO and NO ₂) at Dome C, East Antarctica, during the OPALE campaign. Atmospheric Chemistry and Physics, 2015, 15, 7859-7875.	4.9	43
23	Seasonal variations of triple oxygen isotopic compositions of atmospheric sulfate, nitrate, and ozone at Dumont d'Urville, coastal Antarctica. Atmospheric Chemistry and Physics, 2017, 17, 3713-3727.	4.9	42
24	Lead and Antimony in Basal Ice From Col du Dome (French Alps) Dated With Radiocarbon: A Record of Pollution During Antiquity. Geophysical Research Letters, 2019, 46, 4953-4961.	4.0	41
25	OH reactivity and concentrations of biogenic volatile organic compounds in a Mediterranean forest of downy oak trees. Atmospheric Chemistry and Physics, 2016, 16, 1619-1636.	4.9	39
26	Characterization of the boundary layer at Dome C (East Antarctica) during the OPALE summer campaign. Atmospheric Chemistry and Physics, 2015, 15, 6225-6236.	4.9	38
27	Year-round records of bulk and size-segregated aerosol composition in central Antarctica (Concordia site) â€“ Part 1: Fractionation of sea-salt particles. Atmospheric Chemistry and Physics, 2017, 17, 14039-14054.	4.9	37
28	Characterizing Atmospheric Transport Pathways to Antarctica and the Remote Southern Ocean Using Radon-222. Frontiers in Earth Science, 2018, 6, .	1.8	37
29	A historical record of formate and acetate from a high-elevation Alpine glacier: Implications for their natural versus anthropogenic budgets at the European scale. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	34
30	A reassessment of the budget of formic and acetic acids in the boundary layer at Dumont d'Urville (coastal Antarctica): The role of penguin emissions on the budget of several oxygenated volatile organic compounds. Journal of Geophysical Research, 2012, 117, .	3.3	34
31	Col du DÃ¢me (Mt Blanc Massif, French Alps) suitability for ice-core studies in relation with past atmospheric chemistry over Europe. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 993.	1.6	33
32	Isotopic effects of nitrate photochemistry in snow: a field study at Dome C, Antarctica. Atmospheric Chemistry and Physics, 2015, 15, 11243-11256.	4.9	32
33	Major 20th century changes of the content and chemical speciation of organic carbon archived in Alpine ice cores: Implications for the long-term change of organic aerosol over Europe. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3879-3890.	3.3	31
34	Year-round record of bulk and size-segregated aerosol composition in central Antarctica (Concordia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Physics, 2017, 17, 14055-14073.	4.9	31
35	Col du DÃ¢me (Mt Blanc Massif, French Alps) suitability for ice-core studies in relation with past atmospheric chemistry over Europe. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 993-1012.	1.6	30
36	Atmospheric year-round records of dicarboxylic acids and sulfate at three French sites located between 630 and 4360 m elevation. Journal of Geophysical Research, 2005, 110, .	3.3	29

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37	Quantification of Dissolved Organic Carbon at Very Low Levels in Natural Ice Samples by a UV-Induced Oxidation Method. <i>Environmental Science & Technology</i> , 2011, 45, 673-678.	10.0	29
38	Cold, alpine ice bodies revisited: what may we learn from their impurity and isotope content?. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2012, 94, 245-263.	1.5	29
39	Inter-annual variability of surface ozone at coastal (Dumont d'Urville, 2004-2014) and inland (Concordia, 2007-2014) sites in East Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8053-8069.	4.9	29
40	Investigation of a deep ice core from the Elbrus western plateau, the Caucasus, Russia. <i>Cryosphere</i> , 2015, 9, 2253-2270.	3.9	28
41	Seasonally resolved Alpine and Greenland ice core records of anthropogenic HCl emissions over the 20th century. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 4-1.	3.3	27
42	Acidic gases (HCOOH, CH ₃ COOH, HNO ₃ , HCl, and SO ₂) and related aerosol species at a high mountain Alpine site (4360 m elevation) in Europe. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	27
43	Oxidant Production over Antarctic Land and its Export (OPALE) project: An overview of the 2010-2011 summer campaign. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
44	Constraints on the major sources of dissolved organic carbon in Alpine ice cores from radiocarbon analysis over the bomb-peak period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3319-3327.	3.3	26
45	Measurements of OH and RO ₂ radicals at the coastal Antarctic site of Dumont d'Urville (East Antarctica) in summer 2010-2011. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
46	High resolution measurements of carbon monoxide along a late Holocene Greenland ice core: evidence for in situ production. <i>Climate of the Past</i> , 2014, 10, 987-1000.	3.4	25
47	Nitrous acid at Concordia (inland site) and Dumont d'Urville (coastal site), East Antarctica. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
48	A 60-year ice-core record of regional climate from Ad�lie Land, coastal Antarctica. <i>Cryosphere</i> , 2017, 11, 343-362.	3.9	24
49	Causes of enhanced fluoride levels in Alpine ice cores over the last 75 years: Implications for the atmospheric fluoride budget. <i>Journal of Geophysical Research</i> , 2001, 106, 12619-12632.	3.3	22
50	An automatic recorder for air/firn transfer studies of chemical aerosol species at remote glacier sites. <i>Atmospheric Environment</i> , 1998, 32, 4021-4030.	4.1	21
51	Improvement and characterization of an automatic aerosol sampler for remote (glacier) sites. <i>Atmospheric Environment</i> , 2002, 36, 1221-1232.	4.1	21
52	Major 20th century changes of water-soluble humic-like substances (HULIS _{WS}) aerosol over Europe inferred from Alpine ice cores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3869-3878.	3.3	21
53	The Elbrus (Caucasus, Russia) ice core record - Part 2: history of desert dust deposition. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14133-14148.	4.9	20
54	RADIOCARBON IN GLOBAL TROPOSPHERIC CARBON DIOXIDE. <i>Radiocarbon</i> , 2022, 64, 781-791.	1.8	20

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55	Lead-210 observations within CARBOSOL: A diagnostic tool for assessing the spatiotemporal variability of related chemical aerosol species?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	19
56	Size distribution and ionic composition of marine summer aerosol at the continental Antarctic site Kohnen. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2413-2430.	4.9	17
57	A New Sample Preparation System for Micro- ¹⁴ C Dating of Glacier Ice with a First Application to a High Alpine Ice Core from Colle Gnifetti (Switzerland). <i>Radiocarbon</i> , 2018, 60, 517-533.	1.8	17
58	Large-scale drivers of Caucasus climate variability in meteorological records and Mt El'brus ice cores. <i>Climate of the Past</i> , 2017, 13, 473-489.	3.4	15
59	Cadmium Pollution From Zinc-Smelting 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
60	Formaldehyde (HCHO) in air, snow, and interstitial air at Concordia (East Antarctic Plateau) in summer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6689-6705.	4.9	12
61	Homogeneous sulfur isotope signature in East Antarctica and implication for sulfur source shifts through the last glacial-interglacial cycle. <i>Scientific Reports</i> , 2019, 9, 12378.	3.3	12
62	The Elbrus (Caucasus, Russia) ice core record – Part 1: reconstruction of past anthropogenic sulfur emissions in south-eastern Europe. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14119-14132.	4.9	11
63	The atmospheric HCHO budget at Dumont d'Urville (East Antarctica): Contribution of photochemical gas-phase production versus snow emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,319.	3.3	10
64	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
65	Regional Characteristics of Atmospheric Sulfate Formation in East Antarctica Imprinted on ¹⁷ O-Excess Signature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033583.	3.3	9
66	Investigation of a cold-based ice apron on a high-mountain permafrost rock wall using ice texture analysis and micro-14C dating: a case study of the Triangle du Tacul ice apron (Mont Blanc massif). <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033583.	3.3	9
67	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
68	Causes of Enhanced Bromine Levels in Alpine Ice Cores During the 20th Century: Implications for Bromine in the Free European Troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034246.	3.3	6
69	Ammonium in Antarctic Aerosol: Marine Biological Activity Versus Long-Range Transport of Biomass Burning. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092826.	4.0	1