

Michel Legrand

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

2,469
citations

26
h-index

44
g-index

44
ext. papers

2,669
ext. citations

5.7
avg. IF

4.59
L-index

#	Paper	IF	Citations
42	Glaciochemistry of polar ice cores: A review. <i>Reviews of Geophysics</i> , 1997 , 35, 219-243	23.1	503
41	Sea-salt aerosol in coastal Antarctic regions. <i>Journal of Geophysical Research</i> , 1998 , 103, 10961-10974		231
40	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,		182
39	Sulfur-containing species (sulfate and methanesulfonate) in coastal Antarctic aerosol and precipitation. <i>Journal of Geophysical Research</i> , 1998 , 103, 10975-10990		177
38	Large perturbations of ammonium and organic acids content in the summit-Greenland Ice Core. Fingerprint from forest fires?. <i>Geophysical Research Letters</i> , 1992 , 19, 473-475	4.9	141
37	Ammonium in coastal Antarctic aerosol and snow: Role of polar ocean and penguin emissions. <i>Journal of Geophysical Research</i> , 1998 , 103, 11043-11056		109
36	Loss of volatile acid species from upper firn layers at Vostok, Antarctica. <i>Journal of Geophysical Research</i> , 1999 , 104, 3423-3431		98
35	Year-round records of bulk and size-segregated aerosol composition and HCl and HNO ₃ levels in the Dumont d'Urville (coastal Antarctica) atmosphere: Implications for sea-salt aerosol fractionation in the winter and summer. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 20-1		80
34	Major 20th century changes of carbonaceous aerosol components (EC, WinOC, DOC, HULIS, carboxylic acids, and cellulose) derived from Alpine ice cores. <i>Journal of Geophysical Research</i> , 2007 , 112,		72
33	Seasonality of sulfur species (dimethyl sulfide, sulfate, and methanesulfonate) in Antarctica: Inland versus coastal regions. <i>Journal of Geophysical Research</i> , 2008 , 113,		67
32	Sulfate trends in a Col du Dôme (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		60
31	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	3.9	59
30	Boreal fire records in Northern Hemisphere ice cores: a review. <i>Climate of the Past</i> , 2016 , 12, 2033-2059	3.9	58
29	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,		52
28	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	4.4	47
27	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,		44
26	Antarctic aerosol and snowfall chemistry: implications for deep Antarctic ice-core chemistry. <i>Annals of Glaciology</i> , 1999 , 29, 66-72	2.5	39

25	Interannual variability of dimethylsulfide in air and seawater and its atmospheric oxidation by-products (methanesulfonate and sulfate) at Dumont d'Urville, coastal Antarctica (1999-2003). <i>Journal of Geophysical Research</i> , 2007 , 112,		38
24	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	3.9	37
23	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	11.5	34
22	Year-round records of bulk and size-segregated aerosol composition in central Antarctica (Concordia site) [Part 1: Fractionation of sea-salt particles. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14039-14054	6.8	29
21	Year-round record of bulk and size-segregated aerosol composition in central Antarctica (Concordia site) [Part 2: Biogenic sulfur (sulfate and methanesulfonate) aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14055-14073	6.8	29
20	First investigations of IO, BrO, and NO ₂ summer atmospheric levels at a coastal East Antarctic site using mode-locked cavity enhanced absorption spectroscopy. <i>Geophysical Research Letters</i> , 2013 , 40, 791-796	4.9	28
19	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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3879-3890	4.4	27
18	Seasonal variations of triple oxygen isotopic compositions of atmospheric sulfate, nitrate, and ozone at Dumont d'Urville, coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3713-3727	6.8	26
17	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 993-1012	3.3	26
16	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		25
15	Col du Dôme (Mt Blanc Massif, French Alps) suitability for ice-core studies in relation with past atmospheric chemistry over Europe. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 993-1012	3.3	24
14	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	6.8	23
13	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	4.9	20
12	Improvement and characterization of an automatic aerosol sampler for remote (glacier) sites. <i>Atmospheric Environment</i> , 2002 , 36, 1221-1232	5.3	18
11	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		17
10	Oxygen isotope mass balance of atmospheric nitrate at Dome C, East Antarctica, during the OPALE campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2659-2673	6.8	16
9	A New Sample Preparation System for Micro-14C 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	4.6	12
8	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	6.8	6

7	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	4.9	5
6	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	4.4	3
5	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	4.4	3
4	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	4.9	2
3	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093808	4.9	2
2	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	4.4	0
1	Ammonium in Antarctic Aerosol: Marine Biological Activity Versus Long-Range Transport of Biomass Burning. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092826	4.9	