

# Jean Charles Gallet

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

2,904  
citations

430874

18  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

4393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. <i>Science</i> , 2007, 317, 793-796.	12.6	1,880
2	Measurement of the specific surface area of snow using infrared reflectance in an integrating sphere at 1310 and 1550 nm. <i>Cryosphere</i> , 2009, 3, 167-182.	3.9	191
3	High-accuracy measurements of snow Bidirectional Reflectance Distribution Function at visible and NIR wavelengths " comparison with modelling results. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2507-2520.	4.9	98
4	Measurement of vertical profiles of snow specific surface area with a 1 cm resolution using infrared reflectance: instrument description and validation. <i>Journal of Glaciology</i> , 2011, 57, 17-29.	2.2	94
5	Spatiotemporal patterns of rain-on-snow and basal ice in high Arctic Svalbard: detection of a climate-cryosphere regime shift. <i>Environmental Research Letters</i> , 2019, 14, 015002.	5.2	64
6	Vertical profile of the specific surface area and density of the snow at Dome C and on a transect to Dumont D'Urville, Antarctica " albedo calculations and comparison to remote sensing products. <i>Cryosphere</i> , 2011, 5, 631-649.	3.9	58
7	Structure, specific surface area and thermal conductivity of the snowpack around Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58
8	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2015-2061.	4.9	42
9	Formaldehyde in the Alaskan Arctic snowpack: Partitioning and physical processes involved in air-snow exchanges. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
10	Winter snow conditions on Arctic sea ice north of Svalbard during the Norwegian young sea ICE (N&ICE2015) expedition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,837.	3.3	39
11	The growth of sublimation crystals and surface hoar on the Antarctic plateau. <i>Cryosphere</i> , 2014, 8, 1205-1215.	3.9	35
12	Spring snow conditions on Arctic sea ice north of Svalbard, during the Norwegian Young Sea ICE (N&ICE2015) expedition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,820.	3.3	31
13	In situ observations of black carbon in snow and the corresponding spectral surface albedo reduction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1476-1489.	3.3	30
14	The specific surface area and chemical composition of diamond dust near Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27
15	Elemental carbon in snow at Changbai Mountain, northeastern China: concentrations, scavenging ratios, and dry deposition velocities. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 629-640.	4.9	24
16	Measuring the specific surface area of wet snow using 1310 nm reflectance. <i>Cryosphere</i> , 2014, 8, 1139-1148.	3.9	22
17	Investigation on the Sources and Impact of Trace Elements in the Annual Snowpack and the Firn in the Hansbreen (Southwest Spitsbergen). <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	22
18	Free amino acids in the Arctic snow and ice core samples: Potential markers for paleoclimatic studies. <i>Science of the Total Environment</i> , 2017, 607-608, 454-462.	8.0	21

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19	Seasonal Progression of the Deposition of Black Carbon by Snowfall at Ny-Ålesund, Spitsbergen. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 997-1016.	3.3	21
20	The Underwater Light Climate in Kongsfjorden and Its Ecological Implications. <i>Advances in Polar Ecology</i> , 2019, , 137-170.	1.3	21
21	Do contemporary (1980–2015) emissions determine the elemental carbon deposition trend at Høltedahlfonna glacier, Svalbard?. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12779-12795.	4.9	17
22	A feasibility study of mapping light-absorbing carbon using a taxi fleet as a mobile platform. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 66, 23533.	1.6	16
23	Measurement report: Spatial variations in ionic chemistry and water-stable isotopes in the snowpack on glaciers across Svalbard during the 2015–2016 snow accumulation season. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3163-3180.	4.9	10
24	Surface Mass Balance Controlled by Local Surface Slope in Inland Antarctica: Implications for Ice Sheet Mass Balance and Oldest Ice Delineation in Dome Fuji. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	9
25	Source, timing and dynamics of ionic species mobility in the Svalbard annual snowpack. <i>Science of the Total Environment</i> , 2021, 751, 141640.	8.0	6
26	First discrete iron(II) records from Dome C (Antarctica) and the Høltedahlfonna glacier (Svalbard). <i>Chemosphere</i> , 2021, 267, 129335.	8.2	6
27	Elemental and water-insoluble organic carbon in Svalbard snow: a synthesis of observations during 2007–2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3035-3057.	4.9	6
28	Variability in black carbon mass concentration in surface snow at Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12479-12493.	4.9	3
29	Implications of surface flooding on airborne estimates of snow depth on sea ice. <i>Cryosphere</i> , 2021, 15, 2819-2833.	3.9	1