Francisco J Navarro

List of Publications by Year
in descending order

55	2,333	186254 28	214788 47
papers	citations	h-index	g-index

67	67	67	3057
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Snow Albedo Seasonal Decay and Its Relation With Shortwave Radiation, Surface Temperature and Topography Over an Antarctic Ice Cap. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2162-2172.	4.9	6
2	The case of a southern European glacier which survived Roman and medieval warm periods but is disappearing under recent warming. Cryosphere, 2021, 15, 1157-1172.	3.9	11
3	Glacierâ€“plume or glacierâ€“fjord circulation models? A 2-D comparison for Hansbreenâ€“Hansbukta system, Svalbard. Journal of Glaciology, 2021, 67, 797-810.	2.2	4
4	Ice thinning on nunataks during the glacial to interglacial transition in the Antarctic Peninsula region according to Cosmic-Ray Exposure dating: Evidence and uncertainties. Quaternary Science Reviews, 2021, 264, 107029.	3.0	3
5	Geodetic Mass Balance of the South Shetland Islands Ice Caps, Antarctica, from Differencing TanDEM-X DEMs. Remote Sensing, 2021, 13, 3408.	4.0	6
6	Mass balance of the ice sheets and glaciers â€“ Progress since AR5 and challenges. Earth-Science Reviews, 2020, 201, 102976.	9.1	44
7	Differential Colonization and Succession of Microbial Communities in Rock and Soil Substrates on a Maritime Antarctic Glacier Forefield. Frontiers in Microbiology, 2020, 11, 126.	3.5	65
8	Worldwide version-controlled database of glacier thickness observations. Earth System Science Data, 2020, 12, 3039-3055.	9.9	41
9	Surface emergence of glacial plumes determined by fjord stratification. Cryosphere, 2020, 14, 1951-1969.	3.9	25
10	ĐŸĐžĐ'Đ•ĐĐ¥ĐĐžĐ¡Đ¢ĐĐ«Đ• Đ¡ĐšĐžĐĐžĐ¡Đ¢Đ˜ Đ˜ ĐĐ™Đ¡Đ'Đ•ĐĐ"ĐžĐ'Đ«Đ™ Đ¡Đ¢ĐžĐš Đ›Đ•Đ"ĐĐ˜ĐšĐžĐ'ĐžĐ"Đž ĐšĐĐŸĐžĐ›Đ•	0.2	2
11	Đ˜Đ—ĐœĐ•ĐĐ•ĐĐ˜Đ¯ Đ'Đ«Đ¡ĐžĐ¢Đ« ĐŸĐžĐ'Đ•ĐĐ¥ĐĐžĐ¡Đ¢Đ˜ Đ˜ Đ'ĐĐ›ĐĐĐ¡ ĐœĐĐ¡Đ¡Đ« Đ›Đ•Đ"ĐĐ˜ĐšĐžĐ'ĐžĐ"Đž ĐšĐĐŸĐžĐ›Đ•	0.2	6
12	Sea-level rise: Which is the role of glaciers and polar ice sheets?. Metode, 2020, , .	0.1	1
13	Subglacial water pressure and ice-speed variations at Johnsons Glacier, Livingston Island, Antarctic Peninsula. Journal of Glaciology, 2019, 65, 689-699.	2.2	8
14	Intra- and inter-annual variability in dynamic discharge from the Academy of Sciences Ice Cap, Severnaya Zemlya, Russian Arctic, and its role in modulating mass balance. Journal of Glaciology, 2019, 65, 780-797.	2.2	15
15	A two-dimensional glacierâ€“fjord coupled model applied to estimate submarine melt rates and front position changes of Hansbreen, Svalbard. Journal of Glaciology, 2018, 64, 745-758.	2.2	9
16	The Iceâ€Free Topography of Svalbard. Geophysical Research Letters, 2018, 45, 11,760.	4.0	32
17	Bipolar dispersal of red-snow algae. Nature Communications, 2018, 9, 3094.	12.8	75
18	Ice discharge error estimates using different cross-sectional area approaches: a case study for the Canadian High Arctic, 2016/17. Journal of Glaciology, 2018, 64, 595-608.	2.2	6

#	Article	IF	Citations
19	Climatically sensitive transfer of iron to maritime Antarctic ecosystems by surface runoff. Nature Communications, 2017, 8, 14499.	12.8	64
20	Recent regional climate cooling on the Antarctic Peninsula and associated impacts on the cryosphere. Science of the Total Environment, 2017, 580, 210-223.	8.0	204
21	Recent Warming and Cooling in the Antarctic Peninsula Region has Rapid and Large Effects on Lichen Vegetation. Scientific Reports, 2017, 7, 5689.	3.3	61
22	Modeling the Controls on the Front Position of a Tidewater Glacier in Svalbard. Frontiers in Earth Science, 2017, 5, .	1.8	16
23	Glacier Surface Velocity Retrieval Using D-InSAR and Offset Tracking Techniques Applied to Ascending and Descending Passes of Sentinel-1 Data for Southern Ellesmere Ice Caps, Canadian Arctic. Remote Sensing, 2017, 9, 442.	4.0	67
24	Application of a two-step approach for mapping ice thickness to various glacier types on Svalbard. Cryosphere, 2017, 11, 2003-2032.	3.9	34
25	AÂ14-year dataset of in situ glacier surface velocities for aÂtidewater and aÂland-terminating glacier in Livingston Island, Antarctica. Earth System Science Data, 2017, 9, 751-764.	9.9	32
26	On the errors involved in ice-thickness estimates I: ground-penetrating radar measurement errors. Journal of Glaciology, 2016, 62, 1008-1020.	2.2	48
27	On the errors involved in ice-thickness estimates II: errors in digital elevation models of ice thickness. Journal of Glaciology, 2016, 62, 1021-1029.	2.2	23
28	On the errors involved in ice-thickness estimates III: error in volume. Journal of Glaciology, 2016, 62, 1030-1036.	2.2	12
29	Monte Carlo modelling projects the loss of most land-terminating glaciers on Svalbard in the 21st century under RCP 8.5 forcing. Environmental Research Letters, 2016, 11, 094006.	5.2	10
30	Ground-penetrating radar studies in Svalbard aimed to the calculation of the ice volume of its glaciers. Cuadernos De Investigacion Geografica, 2016, 42, 399-414.	1.1	5
31	Geomatic methods applied to the study of the front position changes of Johnsons and Hurd Glaciers, Livingston Island, Antarctica, between 1957 and 2013. Earth System Science Data, 2016, 8, 341-353.	9.9	30
32	Ice thickness distribution and hydrothermal structure of Elfenbeinbreen and Sveigbreen, eastern Spitsbergen, Svalbard. Journal of Glaciology, 2015, 61, 1015-1018.	2.2	2
33	Estimate of the total volume of Svalbard glaciers, and their potential contribution to sea-level rise, using new regionally based scaling relationships. Journal of Glaciology, 2015, 61, 29-41.	2.2	31
34	Surface velocity and mass balance of Livingston Island ice cap, Antarctica. Cryosphere, 2014, 8, 1807-1823.	3.9	41
35	Ice Volume Estimates from Ground-Penetrating Radar Surveys, Wedel Jarlsberg Land Glaciers, Svalbard. Arctic, Antarctic, and Alpine Research, 2014, 46, 394-406.	1.1	35
36	Antarctic climate change and the environment: an update. Polar Record, 2014, 50, 237-259.	0.8	411

#	Article	IF	Citations
37	Decelerated mass loss of Hurd and Johnsons Glaciers, Livingston Island, Antarctic Peninsula. Journal of Glaciology, 2013, 59, 115-128.	2.2	56
38	Ice-sheet mass balance and climate change. Nature, 2013, 498, 51-59.	27.8	253
39	Ice volume changes (1936â€“1990â€“2007) and ground-penetrating radar studies of Ariebreen, Hornsund, Spitsbergen. Polar Research, 2013, 32, 11068.	1.6	13
40	Radio-echo sounding and ice volume estimates of western NordenskiÃ¶ld Land glaciers, Svalbard. Annals of Glaciology, 2013, 54, 211-217.	1.4	29
41	Surface velocity and ice discharge of the ice cap on King George Island, Antarctica. Annals of Glaciology, 2013, 54, 111-119.	1.4	57
42	Sensitivity of a distributed temperature-radiation index melt model based on AWS observations and surface energy balance fluxes, Hurd Peninsula glaciers, Livingston Island, Antarctica. Cryosphere, 2012, 6, 539-552.	3.9	32
43	A compact lightweight multipurpose ground-penetrating radar for glaciological applications. Journal of Glaciology, 2011, 57, 1113-1118.	2.2	16
44	A three-dimensional calving model: numerical experiments on Johnsons Glacier, Livingston Island, Antarctica. Journal of Glaciology, 2010, 56, 200-214.	2.2	53
45	On the effects of divide migration, alongâ€ridge flow, and basal sliding on isochrones near an ice divide. Journal of Geophysical Research, 2009, 114, .	3.3	39
46	Radioglaciological studies on Hurd Peninsula glaciers, Livingston Island, Antarctica. Annals of Glaciology, 2009, 50, 17-24.	1.4	50
47	Ice thickness, internal structure and subglacial topography of Bowles Plateau ice cap and the main ice divides of Livingston Island, Antarctica, by ground-based radio-echo sounding. Annals of Glaciology, 2009, 50, 49-56.	1.4	15
48	Hurd Peninsula glaciers, Livingston Island, Antarctica, as indicators of regional warming: ice-volume changes during the period 1956â€“2000. Annals of Glaciology, 2007, 46, 43-49.	1.4	40
49	Dating ice flow change near the flow divide at Roosevelt Island, Antarctica, by using a thermomechanical model to predict radar stratigraphy. Journal of Geophysical Research, 2006, 111, .	3.3	37
50	Temporal changes in the radiophysical properties of a polythermal glacier in Spitsbergen. Annals of Glaciology, 2005, 42, 125-134.	1.4	19
51	Ice-volume changes (1936â€“1990) and structure of Aldegondabreen, Spitsbergen. Annals of Glaciology, 2005, 42, 158-162.	1.4	21
52	Application of radar and seismic methods for the investigation of temperate glaciers. Journal of Applied Geophysics, 2005, 57, 193-211.	2.1	48
53	Three-dimensional modelling of the dynamics of Johnsons Glacier, Livingston Island, Antarctica. Annals of Glaciology, 2004, 39, 1-8.	1.4	31
54	Estimation of water content in a temperate glacier from radar and seismic sounding data. Annals of Glaciology, 2003, 37, 317-324.	1.4	36

#	Article	IF	Citations
55	Geophysical survey of Johnsons Glacier (Antarctica): Comparing seismic and RES data. , 2000, , .		0