

Frank Nitsche

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

5,311
citations

218592

26
h-index

182361

51
g-index

64
all docs

64
docs citations

64
times ranked

6044
citing authors

#	ARTICLE	IF	CITATIONS
1	Sedimentary Signatures of Persistent Subglacial Meltwater Drainage From Thwaites Glacier, Antarctica. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	8
2	The International Bathymetric Chart of the Southern Ocean Version 2. <i>Scientific Data</i> , 2022, 9, .	2.4	28
3	Morphometry of bedrock meltwater channels on Antarctic inner continental shelves: Implications for channel development and subglacial hydrology. <i>Geomorphology</i> , 2020, 370, 107369.	1.1	10
4	Revealing the former bed of Thwaites Glacier using sea-floor bathymetry: implications for warm-water routing and bed controls on ice flow and buttressing. <i>Cryosphere</i> , 2020, 14, 2883-2908.	1.5	27
5	Past water flow beneath Pine Island and Thwaites glaciers, West Antarctica. <i>Cryosphere</i> , 2019, 13, 1959-1981.	1.5	25
6	East Antarctic ice flow dynamic based on subglacial landforms near Dibble Glacier. <i>Marine Geology</i> , 2019, 417, 106007.	0.9	2
7	Morphological and geological features of Drake Passage, Antarctica, from a new digital bathymetric model. <i>Journal of Maps</i> , 2019, 15, 49-59.	1.0	19
8	Post-LGM Grounding-Line Positions of the Bindschadler Paleo Ice Stream in the Ross Sea Embayment, Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1827-1844.	1.0	18
9	Bathymetric control of warm ocean water access along the East Antarctic Margin. <i>Geophysical Research Letters</i> , 2017, 44, 8936-8944.	1.5	38
10	Evidence for a palaeo-subglacial lake on the Antarctic continental shelf. <i>Nature Communications</i> , 2017, 8, 15591.	5.8	32
11	High-resolution sub-shelf seafloor records of twentieth century ungrounding and retreat of Pine Island Glacier, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1698-1714.	1.0	13
12	Limited grounding-line advance onto the West Antarctic continental shelf in the easternmost Amundsen Sea Embayment during the last glacial period. <i>PLoS ONE</i> , 2017, 12, e0181593.	1.1	18
13	Geometry and volume of a middle shelf grounding-zone wedge in Ross Sea, Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 239-240.	0.9	0
14	Bedrock channels in Pine Island Bay, West Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 217-218.	0.9	4
15	Submarine landform assemblage produced beneath the Dotson-Getz palaeo-ice stream, West Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 345-348.	0.9	5
16	Crag-and-tail features on the Amundsen Sea continental shelf, West Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 199-200.	0.9	6
17	Submarine glacial-landform distribution across the West Antarctic margin, from grounding line to slope: the Pine Island-Thwaites ice-stream system. <i>Geological Society Memoir</i> , 2016, 46, 493-500.	0.9	9
18	Palaeo-ice stream pathways and retreat style in the easternmost Amundsen Sea Embayment, West Antarctica, revealed by combined multibeam bathymetric and seismic data. <i>Geomorphology</i> , 2015, 245, 207-222.	1.1	37

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19	Reconstruction of changes in the Amundsen Sea and Bellingshausen Sea sector of the West Antarctic Ice Sheet since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 55-86.	1.4	94
20	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 1-9.	1.4	228
21	The International Bathymetric Chart of the Southern Ocean (IBCSO) Version 1.0 – A new bathymetric compilation covering circum-Antarctic waters. <i>Geophysical Research Letters</i> , 2013, 40, 3111-3117.	1.5	334
22	Seabed corrugations beneath an Antarctic ice shelf revealed by autonomous underwater vehicle survey: Origin and implications for the history of Pine Island Glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1356-1366.	1.0	46
23	Seismic stratigraphic record of the Amundsen Sea Embayment shelf from pre-glacial to recent times: Evidence for a dynamic West Antarctic ice sheet. <i>Marine Geology</i> , 2013, 344, 115-131.	0.9	54
24	Paleo ice flow and subglacial meltwater dynamics in Pine Island Bay, West Antarctica. <i>Cryosphere</i> , 2013, 7, 249-262.	1.5	91
25	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , 2013, 7, 375-393.	1.5	1,455
26	Getz Ice Shelf melting response to changes in ocean forcing. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4152-4168.	1.0	68
27	Seismic Expression of Glacially Deposited Sequences in the Bellingshausen and Amundsen Seas, West Antarctica. <i>Antarctic Research Series</i> , 2013, , 95-108.	0.2	7
28	Ice sheet retreat dynamics inferred from glacial morphology of the central Pine Island Bay Trough, West Antarctica. <i>Quaternary Science Reviews</i> , 2012, 38, 1-10.	1.4	94
29	Post-LGM deglaciation in Pine Island Bay, West Antarctica. <i>Quaternary Science Reviews</i> , 2012, 38, 11-26.	1.4	73
30	The Amundsen Sea and the Antarctic Ice Sheet. <i>Oceanography</i> , 2012, 25, 154-163.	0.5	117
31	Seeing the Seafloor: Discoveries of the R/V Nathaniel B. Palmer Multibeam Systems. <i>Oceanography</i> , 2012, 25, 136-139.	0.5	0
32	Evaluation and calibration of a Field Portable X-Ray Fluorescence spectrometer for quantitative analysis of siliciclastic soils and sediments. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 395-405.	1.6	54
33	Geological record of ice shelf break-up and grounding line retreat, Pine Island Bay, West Antarctica. <i>Geology</i> , 2011, 39, 691-694.	2.0	125
34	An improved bathymetry compilation for the Bellingshausen Sea, Antarctica, to inform ice-sheet and ocean models. <i>Cryosphere</i> , 2011, 5, 95-106.	1.5	35
35	Quantifying 20th century deposition in complex estuarine environment: An example from the Hudson River. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 89, 163-174.	0.9	12
36	Global Multi-Resolution Topography synthesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	1,428

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37	West Antarctic ice sheet change since the Last Glacial Period. <i>Eos</i> , 2007, 88, 189-190.	0.1	20
38	Bathymetry of the Amundsen Sea continental shelf: Implications for geology, oceanography, and glaciology. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	1.0	127
39	Regional patterns and local variations of sediment distribution in the Hudson River Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 71, 259-277.	0.9	32
40	Using geophysical information to define benthic habitats in a large river. <i>Freshwater Biology</i> , 2006, 51, 25-38.	1.2	24
41	Late-stage estuary infilling controlled by limited accommodation space in the Hudson River. <i>Marine Geology</i> , 2006, 232, 181-202.	0.9	14
42	Integrative acoustic mapping reveals Hudson River sediment processes and habitats. <i>Eos</i> , 2005, 86, 225.	0.1	5
43	Environmental change and oyster colonization within the Hudson River estuary linked to Holocene climate. <i>Geo-Marine Letters</i> , 2004, 24, 212-224.	0.5	23
44	Process-related classification of acoustic data from the Hudson River Estuary. <i>Marine Geology</i> , 2004, 209, 131-145.	0.9	47
45	Efficient acquisition, processing, and interpretation strategy for shallow 3D seismic surveying: A Case Study. <i>Geophysics</i> , 2003, 68, 1792-1806.	1.4	28
46	Shallow seismic surveying of an Alpine rock glacier. <i>Geophysics</i> , 2002, 67, 1701-1710.	1.4	69
47	Tectonic evolution of the Pacific margin of Antarctica 2. Structure of Late Cretaceous-early Tertiary plate boundaries in the Bellingshausen Sea from seismic reflection and gravity data. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 6-1-EPM 6-20.	3.3	24
48	Tectonic evolution of the Pacific margin of Antarctica 1. Late Cretaceous tectonic reconstructions. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 5-1-EPM 5-19.	3.3	126
49	Late Quaternary depositional history of the Reuss delta, Switzerland: constraints from high-resolution seismic reflection and georadar surveys. <i>Journal of Quaternary Science</i> , 2002, 17, 131-143.	1.1	13
50	Reducing source-generated noise in shallow seismic data using linear and hyperbolic \tilde{t} - \tilde{p} transformations. <i>Geophysics</i> , 2001, 66, 1612-1621.	1.4	25
51	Minimizing field operations in shallow 3D seismic reflection surveying. <i>Geophysics</i> , 2001, 66, 1761-1773.	1.4	12
52	Geometry and development of glacial continental margin depositional systems in the Bellingshausen Sea. <i>Marine Geology</i> , 2000, 162, 277-302.	0.9	67
53	Seismic and gravity data reveal Tertiary interplate subduction in the Bellingshausen Sea, southeast Pacific. <i>Geology</i> , 1997, 25, 371.	2.0	32