

Nicholas Golledge

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

6,005
citations

71102

41
h-index

79698

73
g-index

144
all docs

144
docs citations

144
times ranked

4575
citing authors

#	ARTICLE	IF	CITATIONS
1	The multi-millennial Antarctic commitment to future sea-level rise. <i>Nature</i> , 2015, 526, 421-425.	27.8	322
2	Global environmental consequences of twenty-first-century ice-sheet melt. <i>Nature</i> , 2019, 566, 65-72.	27.8	277
3	The northern sector of the last British Ice Sheet: Maximum extent and demise. <i>Earth-Science Reviews</i> , 2008, 88, 207-226.	9.1	276
4	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 1-9.	3.0	228
5	Revisiting Antarctic ice loss due to marine ice-cliff instability. <i>Nature</i> , 2019, 566, 58-64.	27.8	215
6	Dynamic cycles, ice streams and their impact on the extent, chronology and deglaciation of the British-Irish ice sheet. <i>Quaternary Science Reviews</i> , 2009, 28, 758-776.	3.0	214
7	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
8	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. <i>Cryosphere</i> , 2020, 14, 3033-3070.	3.9	198
9	Retreat of the East Antarctic ice sheet during the last glacial termination. <i>Nature Geoscience</i> , 2011, 4, 195-202.	12.9	169
10	Antarctic contribution to meltwater pulse 1A from reduced Southern Ocean overturning. <i>Nature Communications</i> , 2014, 5, 5107.	12.8	161
11	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , 2020, 14, 3071-3096.	3.9	144
12	Retreat history of the East Antarctic Ice Sheet since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 10-30.	3.0	140
13	The Greenland and Antarctic ice sheets under 1.5 °C global warming. <i>Nature Climate Change</i> , 2018, 8, 1053-1061.	18.8	135
14	Antarctic ice sheet sensitivity to atmospheric CO ₂ variations in the early to mid-Miocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3453-3458.	7.1	133
15	Dynamics of the last glacial maximum Antarctic ice-sheet and its response to ocean forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16052-16056.	7.1	108
16	Glaciology and geological signature of the Last Glacial Maximum Antarctic ice sheet. <i>Quaternary Science Reviews</i> , 2013, 78, 225-247.	3.0	99
17	Microstructures in subglacial and proglacial sediments: understanding faults, folds and fabrics, and the influence of water on the style of deformation. <i>Quaternary Science Reviews</i> , 2007, 26, 1499-1528.	3.0	98
18	Repeated large-scale retreat and advance of Totten Glacier indicated by inland bed erosion. <i>Nature</i> , 2016, 533, 385-389.	27.8	98

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19	Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). <i>Earth System Dynamics</i> , 2020, 11, 35-76.	7.1	92
20	Last Glacial Maximum climate in New Zealand inferred from a modelled Southern Alps icefield. <i>Quaternary Science Reviews</i> , 2012, 46, 30-45.	3.0	91
21	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. <i>Cryosphere</i> , 2018, 12, 1433-1460.	3.9	89
22	High-resolution numerical simulation of Younger Dryas glaciation in Scotland. <i>Quaternary Science Reviews</i> , 2008, 27, 888-904.	3.0	88
23	Glaciation of Scotland during the Younger Dryas stadial: a review. <i>Journal of Quaternary Science</i> , 2010, 25, 550-566.	2.1	75
24	Antarctic ice-sheet sensitivity to obliquity forcing enhanced through ocean connections. <i>Nature Geoscience</i> , 2019, 12, 132-137.	12.9	74
25	Rapid Holocene thinning of an East Antarctic outlet glacier driven by marine ice sheet instability. <i>Nature Communications</i> , 2015, 6, 8910.	12.8	70
26	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). <i>Journal of Glaciology</i> , 2020, 66, 891-904.	2.2	70
27	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019, 13, 1441-1471.	3.9	69
28	Centennial-scale Holocene climate variations amplified by Antarctic Ice Sheet discharge. <i>Nature</i> , 2017, 541, 72-76.	27.8	68
29	East Antarctic ice sheet most vulnerable to Weddell Sea warming. <i>Geophysical Research Letters</i> , 2017, 44, 2343-2351.	4.0	67
30	Oceanic forcing of penultimate deglacial and last interglacial sea-level rise. <i>Nature</i> , 2020, 577, 660-664.	27.8	62
31	Simulating the Antarctic ice sheet in the late-Pliocene warm period: PLISMIP-ANT, an ice-sheet model intercomparison project. <i>Cryosphere</i> , 2015, 9, 881-903.	3.9	61
32	Antarctic marine ice-sheet retreat in the Ross Sea during the early Holocene. <i>Geology</i> , 2016, 44, 7-10.	4.4	58
33	Evolution of a Lateglacial mountain icecap in northern Scotland. <i>Boreas</i> , 2011, 40, 536-554.	2.4	57
34	Sustained Antarctic Research: A 21st Century Imperative. <i>One Earth</i> , 2019, 1, 95-113.	6.8	54
35	Sensitivity of the Southern Ocean to enhanced regional Antarctic ice sheet meltwater input. <i>Earth's Future</i> , 2015, 3, 317-329.	6.3	50
36	Early Last Interglacial ocean warming drove substantial ice mass loss from Antarctica. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3996-4006.	7.1	50

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37	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000663.	23.0	49
38	Testing the sensitivity of the East Antarctic Ice Sheet to Southern Ocean dynamics: past changes and future implications. <i>Journal of Quaternary Science</i> , 2014, 29, 91-98.	2.1	46
39	Modelled glacier response to centennial temperature and precipitation trends on the Antarctic Peninsula. <i>Nature Climate Change</i> , 2014, 4, 993-998.	18.8	46
40	Subglacial landforms of the tweed palaeo-ice stream. <i>Scottish Geographical Journal</i> , 2005, 121, 163-173.	1.1	44
41	An ice cap landsystem for palaeoglaciological reconstructions: characterizing the Younger Dryas in western Scotland. <i>Quaternary Science Reviews</i> , 2007, 26, 213-229.	3.0	44
42	The Ross Sea Dipole - temperature, snow accumulation and sea ice variability in the Ross Sea region, Antarctica, over the past 2700 years. <i>Climate of the Past</i> , 2018, 14, 193-214.	3.4	44
43	Aeolian sediment transport and deposition in a modern high-latitude glacial marine environment. <i>Sedimentology</i> , 2014, 61, 1535-1557.	3.1	42
44	First cosmogenic ¹⁰ Be age constraint on the timing of Younger Dryas glaciation and ice cap thickness, western Scottish Highlands. <i>Journal of Quaternary Science</i> , 2007, 22, 785-791.	2.1	40
45	Antarctic climate and ice-sheet configuration during the early Pliocene interglacial at 4.23 Ma. <i>Climate of the Past</i> , 2017, 13, 959-975.	3.4	40
46	A palaeo-ice stream of the British Ice Sheet in eastern Scotland. <i>Boreas</i> , 2006, 35, 231-243.	2.4	39
47	Antarctic Cenozoic climate history from sedimentary records: ANDRILL and beyond. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140301.	3.4	36
48	Spatio-temporal variability of processes across Antarctic ice-bed-ocean interfaces. <i>Nature Communications</i> , 2018, 9, 2289.	12.8	34
49	Widespread persistence of expanded East Antarctic glaciers in the southwest Ross Sea during the last deglaciation. <i>Geology</i> , 2017, 45, 403-406.	4.4	33
50	Antarctic ice sheet discharge driven by atmosphere-ocean feedbacks at the Last Glacial Termination. <i>Scientific Reports</i> , 2017, 7, 39979.	3.3	33
51	Evaluating Younger Dryas glacier reconstructions in part of the western Scottish Highlands: a combined empirical and theoretical approach. <i>Boreas</i> , 2005, 34, 274-286.	2.4	32
52	Tidally induced velocity variations of the Beardmore Glacier, Antarctica, and their representation in satellite measurements of ice velocity. <i>Cryosphere</i> , 2013, 7, 1375-1384.	3.9	32
53	Pattern, style and timing of British-Irish Ice Sheet retreat: Shetland and northern North Sea sector. <i>Journal of Quaternary Science</i> , 2021, 36, 681-722.	2.1	31
54	Late Neogene climate and glacial history of the Southern Victoria Land coast from integrated drill core, seismic and outcrop data. <i>Global and Planetary Change</i> , 2012, 80-81, 61-84.	3.5	29

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55	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091741.	4.0	28
56	Influence of seasonality on glacier mass balance, and implications for palaeoclimate reconstructions. <i>Climate Dynamics</i> , 2010, 35, 757-770.	3.8	27
57	Minimal East Antarctic Ice Sheet retreat onto land during the past eight million years. <i>Nature</i> , 2018, 558, 284-287.	27.8	27
58	Deglacial grounding-line retreat in the Ross Embayment, Antarctica, controlled by ocean and atmosphere forcing. <i>Science Advances</i> , 2019, 5, eaav8754.	10.3	27
59	Ten new insights in climate science 2021: a horizon scan. <i>Global Sustainability</i> , 2021, 4, .	3.3	26
60	Sedimentology and architecture of De Geer moraines in the western Scottish Highlands, and implications for grounding-line glacier dynamics. <i>Sedimentary Geology</i> , 2008, 208, 1-14.	2.1	25
61	Past water flow beneath Pine Island and Thwaites glaciers, West Antarctica. <i>Cryosphere</i> , 2019, 13, 1959-1981.	3.9	25
62	Assessing the continuity of the blue ice climate record at Patriot Hills, Horseshoe Valley, West Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 2019-2026.	4.0	24
63	Drivers of abrupt Holocene shifts in West Antarctic ice stream direction determined from combined ice sheet modelling and geologic signatures. <i>Antarctic Science</i> , 2014, 26, 674-686.	0.9	22
64	Geometry and dynamics of an East Antarctic Ice Sheet outlet glacier, under past and present climates. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	21
65	The influence of Antarctic subglacial volcanism on the global iron cycle during the Last Glacial Maximum. <i>Nature Communications</i> , 2017, 8, 15425.	12.8	21
66	The last glaciation of shetland, north atlantic. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2008, 90, 37-53.	1.5	20
67	Mass balance, flow and subglacial processes of a modelled Younger Dryas ice cap in Scotland. <i>Journal of Glaciology</i> , 2009, 55, 32-42.	2.2	20
68	Southern Ocean carbon sink enhanced by sea-ice feedbacks at the Antarctic Cold Reversal. <i>Nature Geoscience</i> , 2020, 13, 489-497.	12.9	20
69	Tipping elements and amplified polar warming during the Last Interglacial. <i>Quaternary Science Reviews</i> , 2020, 233, 106222.	3.0	20
70	The last <sc>W</sc>elsh <sc>I</sc>ce <sc>C</sc>ap: Part 1 – Modelling its evolution, sensitivity and associated climate. <i>Boreas</i> , 2013, 42, 471-490.	2.4	19
71	Geologic controls on ice sheet sensitivity to deglacial climate forcing in the Ross Embayment, Antarctica. <i>Quaternary Science Advances</i> , 2020, 1, 100002.	1.9	19
72	Long-term projections of sea-level rise from ice sheets. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2020, 11, e634.	8.1	19

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73	8000 years of North Atlantic storminess reconstructed from a Scottish peat record: implications for Holocene atmospheric circulation patterns in Western Europe. <i>Journal of Quaternary Science</i> , 2017, 32, 1075-1084.	2.1	18
74	Mid-Holocene Antarctic sea-ice increase driven by marine ice sheet retreat. <i>Climate of the Past</i> , 2021, 17, 1-19.	3.4	18
75	The Loch Lomond Stadial glaciation south of Rannoch Moor: New evidence and palaeoglaciological insights. <i>Scottish Geographical Journal</i> , 2006, 122, 326-343.	1.1	17
76	Lichenometry on adelaide island, antarctic peninsula: size-frequency studies, growth rates and snowpatches. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2010, 92, 111-124.	1.5	17
77	The last <sc>W</sc>elsh <sc>I</sc>ce <sc>C</sc>ap: Part 2 – Dynamics of a topographically controlled icecap. <i>Boreas</i> , 2013, 42, 491-510.	2.4	17
78	Selective erosion beneath the Antarctic Peninsula Ice Sheet during LGM retreat. <i>Antarctic Science</i> , 2014, 26, 698-707.	0.9	17
79	The influence of emissions scenarios on future Antarctic ice loss is unlikely to emerge this century. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	17
80	Glaci-tectonic deformation of proglacial lake sediments in the Cairngorm Mountains. <i>Scottish Journal of Geology</i> , 2002, 38, 127-136.	0.1	16
81	The deglacial history of NW Alexander Island, Antarctica, from surface exposure dating. <i>Quaternary Research</i> , 2012, 77, 273-280.	1.7	16
82	Grounding-zone ice thickness from InSAR: Inverse modelling of tidal elastic bending. <i>Journal of Glaciology</i> , 2014, 60, 526-536.	2.2	16
83	Cosmogenic nuclides constrain surface fluctuations of an East Antarctic outlet glacier since the Pliocene. <i>Earth and Planetary Science Letters</i> , 2017, 480, 75-86.	4.4	16
84	Pleistocene glacial history of the New Zealand subantarctic islands. <i>Climate of the Past</i> , 2019, 15, 423-448.	3.4	16
85	Sedimentology, stratigraphy, and glacier dynamics, western scottish Highlands. <i>Quaternary Research</i> , 2007, 68, 79-95.	1.7	15
86	Rapid global ocean-atmosphere response to Southern Ocean freshening during the last glacial. <i>Nature Communications</i> , 2017, 8, 520.	12.8	15
87	Deglacial evolution of regional Antarctic climate and Southern Ocean conditions in transient climate simulations. <i>Climate of the Past</i> , 2019, 15, 189-215.	3.4	14
88	Southern Ocean temperature records and ice-sheet models demonstrate rapid Antarctic ice sheet retreat under low atmospheric CO ₂ during Marine Isotope Stage 31. <i>Quaternary Science Reviews</i> , 2020, 228, 106069.	3.0	14
89	The influence of continental shelf bathymetry on Antarctic Ice Sheet response to climate forcing. <i>Global and Planetary Change</i> , 2016, 142, 87-95.	3.5	13
90	Morphology and Significance of Transverse Ridges (De Geer Moraines) Adjacent to the Moray Firth, NE Scotland. <i>Scottish Geographical Journal</i> , 2007, 123, 257-270.	1.1	10

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91	Discussion on a revised model for the last deglaciation of eastern Scotland <i>Journal of the Geological Society</i> , Vol. 164, 2007, 313–316.	2.1	10
92	Ocean-forced evolution of the Amundsen Sea catchment, West Antarctica, by 2100. <i>Cryosphere</i> , 2020, 14, 1245-1258.	3.9	10
93	Retreat of the Antarctic Ice Sheet During the Last Interglaciation and Implications for Future Change. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094513.	4.0	10
94	Decadal-scale onset and termination of Antarctic ice-mass loss during the last deglaciation. <i>Nature Communications</i> , 2021, 12, 6683.	12.8	10
95	A palaeo-ice stream of the British Ice Sheet in eastern Scotland. <i>Boreas</i> , 2008, 35, 231-243.	2.4	7
96	Evaluating Younger Dryas glacier reconstructions in part of the western Scottish Highlands: a combined empirical and theoretical approach. <i>Boreas</i> , 2005, 34, 274-286.	2.4	6
97	Reprint of: Late Neogene climate and glacial history of the Southern Victoria Land coast from integrated drill core, seismic and outcrop data. <i>Global and Planetary Change</i> , 2012, 96-97, 157-180.	3.5	6
98	Basal conditions of two Transantarctic Mountains outlet glaciers from observation-constrained diagnostic modelling. <i>Journal of Glaciology</i> , 2014, 60, 855-866.	2.2	6
99	The Younger Dryas glaciation in the southeastern Monadhliath Mountains, Scotland: glacier reconstruction and palaeoclimate implications. <i>Boreas</i> , 2012, 41, 614-628.	2.4	5
100	Past and present dynamics of Skelton Glacier, Transantarctic Mountains. <i>Antarctic Science</i> , 2016, 28, 371-386.	0.9	5
101	Dynamics and palaeoclimatic significance of a Loch Lomond Stadial glacier: Coire Ardair, Creag Meagaidh, Western Highlands, Scotland. <i>Proceedings of the Geologists Association</i> , 2017, 128, 54-66.	1.1	5
102	Advances in numerical modelling of the Antarctic ice sheet. , 2022, , 199-218.		5
103	Antarctic environmental change and ice sheet evolution through the Miocene to Pliocene – a perspective from the Ross Sea and George V to Wilkes Land Coasts. , 2022, , 389-521.		5
104	Lateglacial–Holocene shoreface progradation offshore eastern Scotland: a response to climatic and coastal hydrographic change. <i>Boreas</i> , 2009, 38, 292-314.	2.4	4
105	Is the marine ice cliff hypothesis collapsing?. <i>Science</i> , 2021, 372, 1266-1267.	12.6	4
106	Multi-Century Impacts of Ice Sheet Retreat on Sea Level and Ocean Tides in Hudson Bay. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015104.	2.6	3
107	Subglacial Water Flow Over an Antarctic Palaeo-ice Stream Bed. <i>Journal of Geophysical Research: Earth Surface</i> , 2022, 127, .	2.8	2
108	Corrigendum to ‘Sedimentology, stratigraphy, and glacier dynamics, western Scottish Highlands’ [Quaternary Research 68 (2007) 79–95]. <i>Quaternary Research</i> , 2007, 68, 456-457.	1.7	1