

Nicholas Golledge

List of Publications by Year in descending order

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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	Advances in numerical modelling of the Antarctic ice sheet. , 2022, , 199-218.		5
2	Antarctic environmental change and ice sheet evolution through the Miocene to Pliocene â€“ a perspective from the Ross Sea and George V to Wilkes Land Coasts. , 2022, , 389-521.		5
3	Subglacial Water Flow Over an Antarctic Palaeoâ€“ice Stream Bed. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	2
4	Pattern, style and timing of Britishâ€“Irish Ice Sheet retreat: Shetland and northern North Sea sector. Journal of Quaternary Science, 2021, 36, 681-722.	2.1	31
5	Mid-Holocene Antarctic sea-ice increase driven by marine ice sheet retreat. Climate of the Past, 2021, 17, 1-19.	3.4	18
6	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	27.8	200
7	Is the marine ice cliff hypothesis collapsing?. Science, 2021, 372, 1266-1267.	12.6	4
8	Retreat of the Antarctic Ice Sheet During the Last Interglaciation and Implications for Future Change. Geophysical Research Letters, 2021, 48, e2021GL094513.	4.0	10
9	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. Geophysical Research Letters, 2021, 48, e2020GL091741.	4.0	28
10	The influence of emissions scenarios on future Antarctic ice loss is unlikely to emerge this century. Communications Earth & Environment, 2021, 2, .	6.8	17
11	Ten new insights in climate science 2021: a horizon scan. Global Sustainability, 2021, 4, .	3.3	26
12	Decadal-scale onset and termination of Antarctic ice-mass loss during the last deglaciation. Nature Communications, 2021, 12, 6683.	12.8	10
13	Southern Ocean temperature records and ice-sheet models demonstrate rapid Antarctic ice sheet retreat under low atmospheric CO2 during Marine Isotope Stage 31. Quaternary Science Reviews, 2020, 228, 106069.	3.0	14
14	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). Journal of Glaciology, 2020, 66, 891-904.	2.2	70
15	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. Reviews of Geophysics, 2020, 58, e2019RG000663.	23.0	49
16	Southern Ocean carbon sink enhanced by sea-ice feedbacks at the Antarctic Cold Reversal. Nature Geoscience, 2020, 13, 489-497.	12.9	20
17	Ocean-forced evolution of the Amundsen Sea catchment, West Antarctica, by 2100. Cryosphere, 2020, 14, 1245-1258.	3.9	10
18	Tipping elements and amplified polar warming during the Last Interglacial. Quaternary Science Reviews, 2020, 233, 106222.	3.0	20

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19	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
20	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
21	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
22	Long-term projections of sea-level rise from ice sheets. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2020, 11, e634.	8.1	19
23	Oceanic forcing of penultimate deglacial and last interglacial sea-level rise. <i>Nature</i> , 2020, 577, 660-664.	27.8	62
24	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
25	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
26	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
27	Past water flow beneath Pine Island and Thwaites glaciers, West Antarctica. <i>Cryosphere</i> , 2019, 13, 1959-1981.	3.9	25
28	Sustained Antarctic Research: A 21st Century Imperative. <i>One Earth</i> , 2019, 1, 95-113.	6.8	54
29	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
30	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019, 13, 1441-1471.	3.9	69
31	Pleistocene glacial history of the New Zealand subantarctic islands. <i>Climate of the Past</i> , 2019, 15, 423-448.	3.4	16
32	Global environmental consequences of twenty-first-century ice-sheet melt. <i>Nature</i> , 2019, 566, 65-72.	27.8	277
33	Revisiting Antarctic ice loss due to marine ice-cliff instability. <i>Nature</i> , 2019, 566, 58-64.	27.8	215
34	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
35	Antarctic ice-sheet sensitivity to obliquity forcing enhanced through ocean connections. <i>Nature Geoscience</i> , 2019, 12, 132-137.	12.9	74
36	The Greenland and Antarctic ice sheets under 1.5 °C global warming. <i>Nature Climate Change</i> , 2018, 8, 1053-1061.	18.8	135

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37	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
38	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
39	Minimal East Antarctic Ice Sheet retreat onto land during the past eight million years. <i>Nature</i> , 2018, 558, 284-287.	27.8	27
40	Spatio-temporal variability of processes across Antarctic ice-bed " ocean interfaces. <i>Nature Communications</i> , 2018, 9, 2289.	12.8	34
41	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
42	East Antarctic ice sheet most vulnerable to Weddell Sea warming. <i>Geophysical Research Letters</i> , 2017, 44, 2343-2351.	4.0	67
43	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
44	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
45	Centennial-scale Holocene climate variations amplified by Antarctic Ice Sheet discharge. <i>Nature</i> , 2017, 541, 72-76.	27.8	68
46	Antarctic ice sheet discharge driven by atmosphere-ocean feedbacks at the Last Glacial Termination. <i>Scientific Reports</i> , 2017, 7, 39979.	3.3	33
47	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
48	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
49	Rapid global ocean-atmosphere response to Southern Ocean freshening during the last glacial. <i>Nature Communications</i> , 2017, 8, 520.	12.8	15
50	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
51	Past and present dynamics of Skelton Glacier, Transantarctic Mountains. <i>Antarctic Science</i> , 2016, 28, 371-386.	0.9	5
52	Repeated large-scale retreat and advance of Totten Glacier indicated by inland bed erosion. <i>Nature</i> , 2016, 533, 385-389.	27.8	98
53	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
54	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

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55	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
56	Antarctic marine ice-sheet retreat in the Ross Sea during the early Holocene. <i>Geology</i> , 2016, 44, 7-10.	4.4	58
57	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
58	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
59	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
60	The multi-millennial Antarctic commitment to future sea-level rise. <i>Nature</i> , 2015, 526, 421-425.	27.8	322
61	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
62	Aeolian sediment transport and deposition in a modern high-latitude glacial marine environment. <i>Sedimentology</i> , 2014, 61, 1535-1557.	3.1	42
63	Antarctic contribution to meltwater pulse 1A from reduced Southern Ocean overturning. <i>Nature Communications</i> , 2014, 5, 5107.	12.8	161
64	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
65	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
66	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
67	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
68	Grounding-zone ice thickness from InSAR: Inverse modelling of tidal elastic bending. <i>Journal of Glaciology</i> , 2014, 60, 526-536.	2.2	16
69	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
70	Selective erosion beneath the Antarctic Peninsula Ice Sheet during LGM retreat. <i>Antarctic Science</i> , 2014, 26, 698-707.	0.9	17
71	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
72	Glaciology and geological signature of the Last Glacial Maximum Antarctic ice sheet. <i>Quaternary Science Reviews</i> , 2013, 78, 225-247.	3.0	99

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73	The last Weichselian Ice Cap: Part 2 – Dynamics of a topographically controlled icecap. <i>Boreas</i> , 2013, 42, 491-510.	2.4	17
74	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
75	The last Weichselian Ice Cap: Part 1 – Modelling its evolution, sensitivity and associated climate. <i>Boreas</i> , 2013, 42, 471-490.	2.4	19
76	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
77	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
78	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
79	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
80	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
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	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
83	Evolution of a Lateglacial mountain icecap in northern Scotland. <i>Boreas</i> , 2011, 40, 536-554.	2.4	57
84	Retreat of the East Antarctic ice sheet during the last glacial termination. <i>Nature Geoscience</i> , 2011, 4, 195-202.	12.9	169
85	Glaciation of Scotland during the Younger Dryas stadial: a review. <i>Journal of Quaternary Science</i> , 2010, 25, 550-566.	2.1	75
86	Influence of seasonality on glacier mass balance, and implications for palaeoclimate reconstructions. <i>Climate Dynamics</i> , 2010, 35, 757-770.	3.8	27
87	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
88	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
89	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
90	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

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91	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
92	A palaeo-ice stream of the British Ice Sheet in eastern Scotland. <i>Boreas</i> , 2008, 35, 231-243.	2.4	7
93	The last glaciation of shetland, north atlantic. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2008, 90, 37-53.	1.5	20
94	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
95	High-resolution numerical simulation of Younger Dryas glaciation in Scotland. <i>Quaternary Science Reviews</i> , 2008, 27, 888-904.	3.0	88
96	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
97	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
98	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
99	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
100	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
101	Sedimentology, stratigraphy, and glacier dynamics, western scottish Highlands. <i>Quaternary Research</i> , 2007, 68, 79-95.	1.7	15
102	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
103	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
104	A palaeo-ice stream of the British Ice Sheet in eastern Scotland. <i>Boreas</i> , 2006, 35, 231-243.	2.4	39
105	Subglacial landforms of the tweed palaeo-ice stream. <i>Scottish Geographical Journal</i> , 2005, 121, 163-173.	1.1	44
106	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
107	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
108	Glaci-tectonic deformation of proglacial lake sediments in the Cairngorm Mountains. <i>Scottish Journal of Geology</i> , 2002, 38, 127-136.	0.1	16