Gary S Wilson

List of Publications by Year
in descending order

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87 papers	3,269 citations	201674 27 h-index	155660 55 g-index
87 all docs	87 docs citations	87 times ranked	3618 citing authors

#	Article	IF	Citations
1	Antarctic Ice Sheet dynamics during the Late Oligocene and Early Miocene: climatic conundrums revisited. , 2022, , 363-387.		1
2	Late Pleistocene and Holocene climate and environmental evolution of a subantarctic fjord ingression basin in the southwest Pacific. Quaternary Science Reviews, 2021, 253, 106698.	3.0	2
3	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
4	Magnetostratigraphic Chronology of a Cenozoic Sequence From DSDP Site 274, Ross Sea, Antarctica. Frontiers in Earth Science, 2020, 8, .	1.8	2
5	Ice surface lowering of Skelton Glacier, Transantarctic Mountains, since the Last Glacial Maximum: Implications for retreat of grounded ice in the western Ross Sea. Quaternary Science Reviews, 2020, 237, 106305.	3.0	3
6	Warm fjords and vegetated landscapes in early Pliocene East Antarctica. Earth and Planetary Science Letters, 2020, 534, 116045.	4.4	7
7	High-resolution seismic imaging reveals infill history of a submerged Quaternary fjord system in the subantarctic Auckland Islands, New Zealand. Quaternary Research, 2020, 93, 255-266.	1.7	2
8	Miocene Glacial Dynamics Recorded by Variations in Magnetic Properties in the ANDRILLâ€2A Drill Core. Journal of Geophysical Research: Solid Earth, 2019, 124, 2297-2312.	3.4	9
9	Magneto-biostratigraphic age models for Pleistocene sedimentary records from the Ross Sea. Global and Planetary Change, 2019, 176, 36-49.	3.5	12
10	Eccentricityâ€Paced Southern Hemisphere Glacialâ€Interglacial Cyclicity Preceding the Middle Miocene Climatic Transition. Paleoceanography and Paleoclimatology, 2018, 33, 795-806.	2.9	3
11	A Southwest Pacific Perspective on Longâ€Term Global Trends in Plioceneâ€Pleistocene Stable Isotope Records. Paleoceanography and Paleoclimatology, 2018, 33, 825-839.	2.9	8
12	Methanogens in the Antarctic Dry Valley permafrost. FEMS Microbiology Ecology, 2018, 94, .	2.7	22
13	Reconciling marine and terrestrial evidence for post LGM ice sheet retreat in southern McMurdo Sound, Antarctica. Quaternary Science Reviews, 2017, 157, 1-13.	3.0	20
14	Cosmogenic nuclides constrain surface fluctuations of an East Antarctic outlet glacier since the Pliocene. Earth and Planetary Science Letters, 2017, 480, 75-86.	4.4	16
15	A New Zealand perspective on centennial-scale Southern Hemisphere westerly wind shifts during the last two millennia. Quaternary Science Reviews, 2017, 172, 32-43.	3.0	10
16	Interaction of polar and tropical influences in the mid-latitudes of the Southern Hemisphere during the Mi-1 deglaciation. Global and Planetary Change, 2017, 155, 109-120.	3.5	7
17	A drill-hole calibrated geophysical characterisation of the 23ÂMa Foulden Maar stratigraphic sequence, Otago, New Zealand. New Zealand Journal of Geology, and Geophysics, 2017, 60, 465-477.	1.8	10
18	Late Holocene intensification of the westerly winds at the subantarctic Auckland Islands (51Â°â€S), New Zealand. Climate of the Past, 2017, 13, 1301-1322.	3.4	12

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19	Relict proglacial deltas in Bradshaw and George sounds, Fiordland, New Zealand. Geological Society Memoir, 2016, 46, 91-92.	1.7	4
20	Delivering 21st century Antarctic and Southern Ocean science. Antarctic Science, 2016, 28, 407-423.	0.9	51
21	Antarctic ice sheet sensitivity to atmospheric CO ₂ variations in the early to mid-Miocene. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3453-3458.	7.1	133
22	Trace metal cycling and 238U/235U in New Zealandâ€™s fjords: Implications for reconstructing global paleoredox conditions in organic-rich sediments. Geochimica Et Cosmochimica Acta, 2016, 179, 89-109.	3.9	34
23	Investigating the influence of regional climate and oceanography on marine radiocarbon reservoir ages in southwest New Zealand. Estuarine, Coastal and Shelf Science, 2015, 167, 526-539.	2.1	10
24	Longâ€term evolution of an Oligocene/Miocene maar lake from Otago, New Zealand. Geochemistry, Geophysics, Geosystems, 2015, 16, 59-76.	2.5	23
25	An integrated sequence stratigraphic and chronostratigraphic analysis of the Pliocene, Tiburon Basin succession, Mejillones Peninsula, Chile. Global and Planetary Change, 2015, 131, 124-147.	3.5	1
26	Antarctic Science: A Case for Extending Diplomacy for Science. , 2015, , 69-85.		1
27	Characterisation of magnetic minerals from southern Victoria Land, Antarctica. New Zealand Journal of Geology, and Geophysics, 2015, 58, 52-65.	1.8	8
28	A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. Antarctic Science, 2015, 27, 3-18.	0.9	158
29	A post-glacial relative sea-level curve from Fiordland, New Zealand. Global and Planetary Change, 2015, 131, 104-114.	3.5	14
30	Carbon cycling and burial in New Zealand's fjords. Geochemistry, Geophysics, Geosystems, 2014, 15, 4047-4063.	2.5	27
31	Rock magnetic properties and paleomagnetic behavior of <scp>N</scp>eogene marine sediments from northern <scp>C</scp>hile. Geochemistry, Geophysics, Geosystems, 2014, 15, 4400-4423.	2.5	2
32	Organic-rich sedimentation in the South Pacific Ocean associated with Late Paleocene climatic cooling. Earth-Science Reviews, 2014, 134, 81-97.	9.1	50
33	Iron oxide tracers of ice sheet extent and sediment provenance in the ANDRILL AND-1B drill core, Ross Sea, Antarctica. Global and Planetary Change, 2013, 110, 420-433.	3.5	13
34	The palaeomagnetism of glauconitic sediments. Global and Planetary Change, 2013, 110, 278-288.	3.5	9
35	A middle Miocene relative paleointensity record from the Equatorial Pacific. Earth and Planetary Science Letters, 2013, 374, 227-238.	4.4	27
36	Marine magnetic signature of the Last Glacial Maximum and last deglaciation from the Southern Hemisphere mid-latitudes. Marine Geology, 2013, 346, 246-255.	2.1	4

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37	The Offshore New Harbour Project: deciphering the Middle Miocene through Late Eocene seismic stratigraphy of Offshore New Harbour, western Ross Sea, Antarctica. Geological Society Special Publication, 2013, 381, 199-213.	1.3	3
38	Environmental magnetic record of paleoclimate, unroofing of the Transantarctic Mountains, and volcanism in late Eocene to early Miocene glaciâ€marine sediments from the Victoria Land Basin, Ross Sea, Antarctica. Journal of Geophysical Research: Solid Earth, 2013, 118, 1845-1861.	3.4	18
39	Formation of ice-shelf moraines by accretion of sea water and marine sediment at the southern margin of the McMurdo Ice Shelf, Antarctica. Annals of Glaciology, 2012, 53, 211-220.	1.4	20
40	Selection and stability of quantitative stratigraphic age models: Plio-Pleistocene glaciomarine sediments in the ANDRILL 1B drillcore, McMurdo Ice Shelf. Global and Planetary Change, 2012, 96-97, 143-156.	3.5	16
41	Flexural controls on late Neogene basin evolution in southern McMurdo Sound, Antarctica. Global and Planetary Change, 2012, 80-81, 99-112.	3.5	9
42	Late Neogene climate and glacial history of the Southern Victoria Land coast from integrated drill core, seismic and outcrop data. Global and Planetary Change, 2012, 80-81, 61-84.	3.5	29
43	Revised magnetostratigraphic chronologies for New Harbour drill cores, southern Victoria Land, Antarctica. Global and Planetary Change, 2012, 82-83, 12-24.	3.5	8
44	PuffinPlot: A versatile, userâ€friendly program for paleomagnetic analysis. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	170
45	Reprint of: Revised magnetostratigraphic chronologies for New Harbour drill cores, southern Victoria Land, Antarctica. Global and Planetary Change, 2012, 96-97, 105-117.	3.5	0
46	Reprint of: Flexural controls on late Neogene basin evolution in southern McMurdo Sound, Antarctica. Global and Planetary Change, 2012, 96-97, 9-22.	3.5	0
47	Reprint of: Late Neogene climate and glacial history of the Southern Victoria Land coast from integrated drill core, seismic and outcrop data. Global and Planetary Change, 2012, 96-97, 157-180.	3.5	6
48	â€˜Late Neogene chronostratigraphy and depositional environments on the Antarctic Margin: New results from the ANDRILL McMurdo Ice Shelf Projectâ€™. Global and Planetary Change, 2012, 96-97, 1-8.	3.5	1
49	Neogene tectonic and climatic evolution of the Western Ross Sea, Antarctica â€” Chronology of events from the AND-1B drill hole. Global and Planetary Change, 2012, 96-97, 189-203.	3.5	27
50	Middle Miocene paleoclimate change at Bryce Burn, southern New Zealand. New Zealand Journal of Geology, and Geophysics, 2009, 52, 321-333.	1.8	6
51	Obliquity-paced Pliocene West Antarctic ice sheet oscillations. Nature, 2009, 458, 322-328.	27.8	564
52	Antarctic Drilling Recovers Stratigraphic Records From the Continental Margin. Eos, 2009, 90, 90-91.	0.1	23
53	Calibration values for gravity base stations, McMurdo Station and Scott Base, Ross Island, Antarctica. Antarctic Science, 2009, 21, 367.	0.9	1
54	Constraints on the amplitude of Mid-Pliocene (3.6â€“2.4â€ŠMa) eustatic sea-level fluctuations from the New Zealand shallow-marine sediment record. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 169-187.	3.4	117

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55	Constraining the amplitude of Late Oligocene bathymetric changes in western Ross Sea during orbitally-induced oscillations in the East Antarctic Ice Sheet: (2) Implications for global sea-level changes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 260, 66-76.	2.3	32
56	Cenozoic basin evolution beneath the southern McMurdo Ice Shelf, Antarctica. Global and Planetary Change, 2008, 62, 61-76.	3.5	14
57	A new highâ€resolution, middle Miocene magnetostratigraphy from western Southland, New Zealand. New Zealand Journal of Geology, and Geophysics, 2008, 51, 261-274.	1.8	5
58	Chapter 9 The Oligoceneâ€“Miocene Boundary â€“ Antarctic Climate Response to Orbital Forcing. Developments in Earth and Environmental Sciences, 2008, 8, 369-400.	0.1	10
59	Microbial Populations in Antarctic Permafrost: Biodiversity, State, Age, and Implication for Astrobiology. Astrobiology, 2007, 7, 275-311.	3.0	243
60	A record of Antarctic climate and ice sheet history recovered. Eos, 2007, 88, 557-558.	0.1	22
61	The geological evolution of southern McMurdo Sound - new evidence from a high-resolution aeromagnetic survey. Geophysical Journal International, 2007, 170, 93-100.	2.4	19
62	A coherent middle Pliocene magnetostratigraphy, Wanganui Basin, New Zealand. Journal of the Royal Society of New Zealand, 2005, 35, 197-227.	1.9	26
63	Integrated outcrop, drill core, borehole and seismic stratigraphic architecture of a cyclothemic, shallowâ€marine depositional system, Wanganui Basin, New Zealand. Journal of the Royal Society of New Zealand, 2005, 35, 91-122.	1.9	41
64	An integrated sequence stratigraphic, palaeoenvironmental, and chronostratigraphic analysis of the Tangahoe Formation, southern Taranaki coast, with implications for midâ€Pliocene (c. 3.4â€“3.0 Ma) glacioâ€eustatic seaâ€level changes. Journal of the Royal Society of New Zealand, 2005, 35, 151-196.	1.9	32
65	Magnetostratigraphic chronology of a late Eocene to early Miocene glacimarine succession from the Victoria Land Basin, Ross Sea, Antarctica. Global and Planetary Change, 2005, 45, 207-236.	3.5	54
66	Seismic stratigraphy of the Plio-Pleistocene Ross Island flexural moat-fill: a prognosis for ANDRILL Program drilling beneath McMurdo-Ross Ice Shelf. Global and Planetary Change, 2005, 45, 83-97.	3.5	47
67	Introduction to â€˜long-term changes in Southern high-latitude ice sheets and climate, the Cenozoic historyâ€™. Global and Planetary Change, 2005, 45, 1-7.	3.5	4
68	Apparent magnetic polarity reversals due to remagnetization resulting from late diagenetic growth of greigite from siderite. Geophysical Journal International, 2004, 160, 89-100.	2.4	77
69	Glaciation across the Oligoceneâ€“Miocene boundary in southern McMurdo Sound, Antarctica: new chronology from the CIROS-1 drill hole. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 198, 113-130.	2.3	52
70	Integrated chronostratigraphic calibration of the Oligocene-Miocene boundary at 24.0 Â± 0.1 Ma from the CRP-2A drill core, Ross Sea, Antarctica. Geology, 2002, 30, 1043.	4.4	34
71	Integrated stratigraphy of the lower Altonian (Early Miocene) sequence at Tangakaka Stream, East Cape, New Zealand. New Zealand Journal of Geology, and Geophysics, 2002, 45, 145-173.	1.8	7
72	The Mount Feather Diamicton of the Sirius Group: an accumulation of indicators of Neogene Antarctic glacial and climatic history. Palaeogeography, Palaeoclimatology, Palaeoecology, 2002, 182, 117-131.	2.3	51

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73	Identification of a Waipawa Formation equivalent in the upper Te Uri Member of the Whangai Formation â€•implications for depositional history and age. New Zealand Journal of Geology, and Geophysics, 2001, 44, 347-354.	1.8	16
74	Orbitally induced oscillations in the East Antarctic ice sheet at the Oligocene/Miocene boundary. Nature, 2001, 413, 719-723.	27.8	222
75	Glacial geology and origin of fossiliferous-erratic-bearing moraines, southern McMurdo Sound, Antarctica- an alternative ice sheet hypothesis. Antarctic Research Series, 2000, , 19-37.	0.2	9
76	Diagenesis of magnetic mineral assemblages in multiply redeposited siliciclastic marine sediments, Wanganui basin, New Zealand. Geological Society Special Publication, 1999, 151, 95-108.	1.3	9
77	Integrated stratigraphy of the Waitakianâ€Otaian Stage boundary stratotype, Early Miocene, New Zealand. New Zealand Journal of Geology, and Geophysics, 1999, 42, 581-614.	1.8	19
78	Environmental magnetic record of Antarctic palaeoclimate from Eocene/Oligocene glaciomarine sediments, Victoria Land Basin. Geophysical Journal International, 1998, 134, 653-662.	2.4	35
79	Magnetobiostratigraphic chronology of the EoceneÂ–Oligocene transition in the CIROS-1 core, Victoria Land margin, Antarctica: Implications for Antarctic glacial history. Bulletin of the Geological Society of America, 1998, 110, 35-47.	3.3	74
80	Paleomagnetic lab established in Antarctica. Eos, 1997, 78, 603.	0.1	1
81	Integrated tephrochronology and magnetostratigraphy for cyclothemic marine strata, Wanganui Basin: Implications for the Pliocene-Pleistocene boundary in New Zealand. Quaternary International, 1996, 34-36, 29-48.	1.5	46
82	Distributed deformation due to coupling across a subduction thrust: Mechanism of young tectonic rotation within the south Wanganui basin, New Zealand. Geology, 1995, 23, 645.	4.4	17
83	The neogene east antarctic ice sheet: A dynamic or stable feature?. Quaternary Science Reviews, 1995, 14, 101-123.	3.0	67
84	Magnetostratigraphic, lithostratigraphic and tephrostratigraphic constraints on Lower and Middle Pleistocene sea-level changes, Wanganui Basin, New Zealand. Earth and Planetary Science Letters, 1994, 121, 81-98.	4.4	71
85	Stratigraphy of the Awatere Group, Marlborough, New Zealand. Journal of the Royal Society of New Zealand, 1992, 22, 187-204.	1.9	8
86	Geochronological evidence supporting Antarctic deglaciation three million years ago. Nature, 1992, 359, 816-818.	27.8	155
87	A high-resolution climate record spanning the past 17â€‰000Âyears recovered from Lake Ohau, South Island, New Zealand. Scientific Drilling, 0, 24, 41-50.	0.6	3