## Karsten Gohl

## List of Publications by Year in descending order

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101496 118793 4,644 118 36 62 citations h-index g-index papers 137 137 137 3450 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 1-9.	1.4	228
2	GlobSed: Updated Total Sediment Thickness in the World's Oceans. Geochemistry, Geophysics, Geosystems, 2019, 20, 1756-1772.	1.0	227
3	Deep structure of the Namibia continental margin as derived from integrated geophysical studies. Journal of Geophysical Research, 2000, 105, 25829-25853.	3.3	191
4	Geological record and reconstruction of the late Pliocene impact of the Eltanin asteroid in the Southern Ocean. Nature, 1997, 390, 357-363.	13.7	164
5	Antarctic topography at the Eocene–Oligocene boundary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 335-336, 24-34.	1.0	151
6	High-resolution animated tectonic reconstruction of the South Pacific and West Antarctic Margin. Geochemistry, Geophysics, Geosystems, 2004, 5, .	1.0	133
7	Bedform signature of a West Antarctic palaeo-ice stream reveals a multi-temporal record of flow and substrate control. Quaternary Science Reviews, 2009, 28, 2774-2793.	1.4	133
8	Bathymetry of the Amundsen Sea continental shelf: Implications for geology, oceanography, and glaciology. Geochemistry, Geophysics, Geosystems, 2007, 8, .	1.0	127
9	Tectonic evolution of the Pacific margin of Antarctica 1. Late Cretaceous tectonic reconstructions. Journal of Geophysical Research, 2002, 107, EPM 5-1-EPM 5-19.	3.3	126
10	West Antarctic Ice Sheet retreat driven by Holocene warm water incursions. Nature, 2017, 547, 43-48.	13.7	109
11	The Levantine Basinâ€"crustal structure and origin. Tectonophysics, 2006, 418, 167-188.	0.9	102
12	Subglacial bedforms reveal complex basal regime in a zone of paleo–ice stream convergence, Amundsen Sea embayment, West Antarctica. Geology, 2009, 37, 411-414.	2.0	102
13	Reconstruction of changes in the Amundsen Sea and Bellingshausen Sea sector of the West Antarctic Ice Sheet since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 55-86.	1.4	94
14	Flow and retreat of the Late Quaternary Pine Island‶hwaites palaeoâ€ice stream, West Antarctica. Journal of Geophysical Research, 2010, 115, .	3.3	93
15	Paleo ice flow and subglacial meltwater dynamics in Pine Island Bay, West Antarctica. Cryosphere, 2013, 7, 249-262.	1.5	91
16	New Magnetic Anomaly Map of the Antarctic. Geophysical Research Letters, 2018, 45, 6437-6449.	1.5	78
17	Reconstructions of Antarctic topography since the Eocene–Oligocene boundary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 535, 109346.	1.0	78
18	Grounding-line retreat of the West Antarctic Ice Sheet from inner Pine Island Bay. Geology, 2013, 41, 35-38.	2.0	77

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19	The Agulhas Plateau: structure and evolution of a Large Igneous Province. Geophysical Journal International, 2008, 174, 336-350.	1.0	71
20	Temperate rainforests near the South Pole during peak Cretaceous warmth. Nature, 2020, 580, 81-86.	13.7	69
21	Geometry and development of glacial continental margin depositional systems in the Bellingshausen Sea. Marine Geology, 2000, 162, 277-302.	0.9	67
22	Rapid Thinning of Pine Island Glacier in the Early Holocene. Science, 2014, 343, 999-1001.	6.0	67
23	Gas escape features off New Zealand: Evidence of massive release of methane from hydrates. Geophysical Research Letters, 2010, 37, .	1.5	62
24	The crustal role of the Agulhas Plateau, southwest Indian Ocean: evidence from seismic profiling. Geophysical Journal International, 2001, 144, 632-646.	1.0	56
25	The crustal structure of southern Baffin Bay: implications from a seismic refraction experiment. Geophysical Journal International, 2012, 190, 37-58.	1.0	54
26	Seismic stratigraphic record of the Amundsen Sea Embayment shelf from pre-glacial to recent times: Evidence for a dynamic West Antarctic ice sheet. Marine Geology, 2013, 344, 115-131.	0.9	54
27	First exposure ages from the Amundsen Sea Embayment, West Antarctica: The Late Quaternary context for recent thinning of Pine Island, Smith, and Pope Glaciers. Geology, 2008, 36, 223.	2.0	52
28	GROWTH AND DISPERSAL OF A SOUTHEAST AFRICAN LARGE IGNEOUS PROVINCE. South African Journal of Geology, 2011, 114, 379-386.	0.6	48
29	Animated tectonic reconstruction of the Southern Pacific and alkaline volcanism at its convergent margins since Eocene times. Tectonophysics, 2009, 464, 21-29.	0.9	46
30	Southern African continental margin: Dynamic processes of a transform margin. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	46
31	Playing jigsaw with Large Igneous Provinces—A plate tectonic reconstruction of Ontong Java Nui, West Pacific. Geochemistry, Geophysics, Geosystems, 2015, 16, 3789-3807.	1.0	46
32	Eocene to Miocene geometry of the West Antarctic Rift System. Australian Journal of Earth Sciences, 2007, 54, 1033-1045.	0.4	44
33	Structure and breakup history of the rifted margin of West Antarctica in relation to Cretaceous separation from Zealandia and Bellingshausen plate motion. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	43
34	First geomorphological record and glacial history of an inter-ice stream ridge on the West Antarctic continental shelf. Quaternary Science Reviews, 2013, 61, 47-61.	1.4	43
35	Quantitative tectonic reconstructions of Zealandia based on crustal thickness estimates. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	42
36	Variability in Cenozoic sedimentation along the continental rise of the Bellingshausen Sea, West Antarctica. Marine Geology, 2006, 227, 279-298.	0.9	39

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37	Seamounts off the West Antarctic margin: A case for non-hotspot driven intraplate volcanism. Gondwana Research, 2014, 25, 1660-1679.	3.0	38
38	West Antarctic Rift System in the Antarctic Peninsula. Geophysical Research Letters, 2009, 36, .	1.5	37
39	Variability in Cenozoic sedimentation and paleo-water depths of the Weddell Sea basin related to pre-glacial and glacial conditions of Antarctica. Global and Planetary Change, 2014, 118, 25-41.	1.6	37
40	Palaeo-ice stream pathways and retreat style in the easternmost Amundsen Sea Embayment, West Antarctica, revealed by combined multibeam bathymetric and seismic data. Geomorphology, 2015, 245, 207-222.	1.1	37
41	Amundsen Sea sediment drifts: Archives of modifications in oceanographic and climatic conditions. Marine Geology, 2012, 299-302, 51-62.	0.9	36
42	Tectonic evolution of southern Baffin Bay and Davis Strait: Results from a seismic refraction transect between Canada and Greenland. Journal of Geophysical Research, 2012, 117, .	3.3	35
43	Is the Bounty Trough off eastern New Zealand an aborted rift?. Journal of Geophysical Research, 2007, 112, .	3.3	34
44	Extensional and magmatic nature of the Campbell Plateau and Great South Basin from deep crustal studies. Tectonophysics, 2009, 472, 213-225.	0.9	34
45	The Evolving Paleobathymetry of the Circumâ€Antarctic Southern Ocean Since 34 Ma: A Key to Understanding Past Cryosphereâ€Ocean Developments. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009122.	1.0	34
46	Deep-sea pre-glacial to glacial sedimentation in the Weddell Sea and southern Scotia Sea from a cross-basin seismic transect. Marine Geology, 2013, 336, 61-83.	0.9	33
47	Seismic and gravity data reveal Tertiary interplate subduction in the Bellingshausen Sea, southeast Pacific. Geology, 1997, 25, 371.	2.0	32
48	Crustal structure of the southern margin of the African continent: Results from geophysical experiments. Journal of Geophysical Research, 2008, 113, .	3.3	32
49	Deciphering tectonic phases of the Amundsen Sea Embayment shelf, West Antarctica, from a magnetic anomaly grid. Tectonophysics, 2013, 585, 113-123.	0.9	31
50	Subglacial bathymetry and sediment distribution beneath Pine Island Glacier ice shelf modeled using aerogravity and in situ geophysical data: New results. Earth and Planetary Science Letters, 2016, 433, 63-75.	1.8	31
51	The Davis Strait crust—a transform margin between two oceanic basins. Geophysical Journal International, 2013, 193, 78-97.	1.0	30
52	Tectonomorphic evolution of Marie Byrd Land $\hat{a}\in$ " Implications for Cenozoic rifting activity and onset of West Antarctic glaciation. Global and Planetary Change, 2016, 145, 98-115.	1.6	30
53	Agulhas Plateau, SW Indian Ocean: New evidence for excessive volcanism. Geophysical Research Letters, 1999, 26, 1941-1944.	1.5	29
54	Deep crustal structure of the sheared South African continental margin: first results of the Agulhas-Karoo Geoscience Transect. South African Journal of Geology, 2007, 110, 393-406.	0.6	28

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55	Revealing the former bed of Thwaites Glacier using sea-floor bathymetry: implications for warm-water routing and bed controls on ice flow and buttressing. Cryosphere, 2020, 14, 2883-2908.	1.5	27
56	Life of the Bellingshausen plate. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	26
57	Impact of Weddell Sea shelf progradation on Antarctic bottom water formation during the Miocene. Paleoceanography, 2017, 32, 304-317.	3.0	26
58	Late Cretaceous (99-69 Ma) basaltic intraplate volcanism on and around Zealandia: Tracing upper mantle geodynamics from Hikurangi Plateau collision to Gondwana breakup and beyond. Earth and Planetary Science Letters, 2020, 529, 115864.	1.8	26
59	Structure of Archean crust and passive margin of southwest Greenland from seismic wideâ€angle data. Journal of Geophysical Research, 1993, 98, 6623-6638.	3.3	25
60	Basement control on past ice sheet dynamics in the Amundsen Sea Embayment, West Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 335-336, 35-41.	1.0	25
61	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. Journal of Geophysical Research, 2002, 107, EPM 6-1-EPM 6-20.	3.3	24
62	Retreat of the West Antarctic Ice Sheet from the western Amundsen Sea shelf at a pre- or early LGM stage. Quaternary Science Reviews, 2014, 91, 1-15.	1.4	24
63	Preglacial to glacial sediment thickness grids for the <scp>S</scp> outhern <scp>P</scp> acific <scp>M</scp> argin of <scp>W</scp> est <scp>A</scp> ntarctica. Geochemistry, Geophysics, Geosystems, 2016, 17, 4276-4285.	1.0	23
64	West Antarctic ice sheet change since the Last Glacial Period. Eos, 2007, 88, 189-190.	0.1	20
65	Granitoids and dykes of the Pine Island Bay region, West Antarctica. Antarctic Science, 2012, 24, 473-484.	0.5	20
66	Anomalous South Pacific lithosphere dynamics derived from new total sediment thickness estimates off the West Antarctic margin. Global and Planetary Change, 2014, 123, 139-149.	1.6	20
67	Seismic stratigraphy along the Amundsen Sea to Ross Sea continental rise: A cross-regional record of pre-glacial to glacial processes of the West Antarctic margin. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 443, 183-202.	1.0	20
68	Bathymetric controls on calving processes at Pine Island Glacier. Cryosphere, 2018, 12, 2039-2050.	1.5	20
69	Early glaciation already during the Early Miocene in the Amundsen Sea, Southern Pacific: Indications from the distribution of sedimentary sequences. Global and Planetary Change, 2014, 120, 92-104.	1.6	19
70	Cretaceous intracontinental rifting at the southern Chatham Rise margin and initialisation of seafloor spreading between Zealandia and Antarctica. Tectonophysics, 2020, 776, 228298.	0.9	19
71	Limited grounding-line advance onto the West Antarctic continental shelf in the easternmost Amundsen Sea Embayment during the last glacial period. PLoS ONE, 2017, 12, e0181593.	1.1	18
72	Late Cenozoic ice sheet cyclicity in the western Amundsen Sea Embayment — Evidence from seismic records. Global and Planetary Change, 2009, 69, 162-169.	1.6	17

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73	Geothermal heat flux in the <scp>A</scp> mundsen <scp>S</scp> ea sector of <scp>W</scp> est <scp>A</scp> ntarctica: New insights from temperature measurements, depth to the bottom of the magnetic source estimation, and thermal modeling. Geochemistry, Geophysics, Geosystems, 2017, 18, 2657-2672.	1.0	17
74	Glacial retreat in the Amundsen Sea sector, West Antarctica – first cosmogenic evidence from central Pine Island Bay and the Kohler Range. Quaternary Science Reviews, 2014, 98, 166-173.	1.4	16
75	The last glaciation of Bear Peninsula, central Amundsen Sea Embayment of Antarctica: Constraints on timing and duration revealed by in situ cosmogenic 14C and 10Be dating. Quaternary Science Reviews, 2017, 178, 77-88.	1.4	16
76	The Agulhas Ridge, South Atlantic: The Peculiar Structure of a Fracture Zone. Marine Geophysical Researches, 2004, 25, 305-319.	0.5	15
77	Seaward growth of Antarctic continental shelves since establishment of a continent-wide ice sheet: Patterns and mechanisms. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 520, 44-54.	1.0	15
78	The crustal structure and tectonic development of the continental margin of the Amundsen Sea Embayment, West Antarctica: implications from geophysical data. Geophysical Journal International, 2014, 198, 327-341.	1.0	14
79	Reflection/Refraction Seismology. , 2014, , 1-15.		14
80	3â€D tomographic seismic inversion of a paleochannel system in central New South Wales, Australia. Geophysics, 2002, 67, 1364-1371.	1.4	14
81	Gridded isopach maps from the South Pacific and their use in interpreting the sedimentation history of the West Antarctic continental margin. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	13
82	High geothermal heat flow beneath Thwaites Glacier in West Antarctica inferred from aeromagnetic data. Communications Earth $\&$ Environment, $2021, 2, .$	2.6	13
83	Glaciomarine sedimentation dynamics of the Abbot glacial trough of the Amundsen Sea Embayment shelf, West Antarctica. Geological Society Special Publication, 2013, 381, 233-244.	0.8	12
84	Collision of Manihiki Plateau fragments to accretional margins of northern Andes and Antarctic Peninsula. Tectonics, 2017, 36, 229-240.	1.3	12
85	Bottom-current control on sedimentation in the western Bellingshausen Sea, West Antarctica. Geo-Marine Letters, 2006, 26, 90-101.	0.5	11
86	Rift processes and crustal structure of the Amundsen Sea Embayment, West Antarctica, from 3D potential field modelling. Marine Geophysical Researches, 2015, 36, 263-279.	0.5	10
87	Morphometry of bedrock meltwater channels on Antarctic inner continental shelves: Implications for channel development and subglacial hydrology. Geomorphology, 2020, 370, 107369.	1.1	10
88	Extent and Cessation of the Midâ€Cretaceous Hikurangi Plateau Underthrusting: Impact on Global Plate Tectonics and the Submarine Chatham Rise. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019681.	1.4	10
89	Geohazard detection using 3D seismic data to enhance offshore scientific drilling site selection. Scientific Drilling, 0, 28, 1-27.	1.0	10
90	A geophysical survey of the De Gerlache Seamounts: preliminary results. Geo-Marine Letters, 1998, 18, 19-25.	0.5	9

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91	Did massive glacial dewatering modify sedimentary structures on the Amundsen Sea Embayment shelf, West Antarctica?. Global and Planetary Change, 2012, 92-93, 8-16.	1.6	9
92	Submarine glacial-landform distribution across the West Antarctic margin, from grounding line to slope: the Pine Island–Thwaites ice-stream system. Geological Society Memoir, 2016, 46, 493-500.	0.9	9
93	MeBo70 Seabed Drilling on a Polar Continental Shelf: Operational Report and Lessons From Drilling in the Amundsen Sea Embayment of West Antarctica. Geochemistry, Geophysics, Geosystems, 2017, 18, 4235-4250.	1.0	9
94	Elevated geothermal surface heat flow in the Amundsen Sea Embayment, West Antarctica. Earth and Planetary Science Letters, 2019, 506, 530-539.	1.8	9
95	Evidence for a Highly Dynamic West Antarctic Ice Sheet During the Pliocene. Geophysical Research Letters, 2021, 48, e2021GL093103.	1.5	9
96	Exhumation history along the eastern Amundsen Sea coast, West Antarctica, revealed by lowâ€temperature thermochronology. Tectonics, 2016, 35, 2239-2257.	1.3	8
97	Multiphase magmatic and tectonic evolution of a large igneous province - Evidence from the crustal structure of the Manihiki Plateau, western Pacific. Tectonophysics, 2019, 750, 434-457.	0.9	8
98	Seismic Expression of Glacially Deposited Sequences in the Bellingshausen and Amundsen Seas, West Antarctica. Antarctic Research Series, 2013, , 95-108.	0.2	7
99	A glacial landform assemblage from an inter-ice stream setting in the eastern Amundsen Sea Embayment, West Antarctica. Geological Society Memoir, 2016, 46, 349-352.	0.9	7
100	Crag-and-tail features on the Amundsen Sea continental shelf, West Antarctica. Geological Society Memoir, 2016, 46, 199-200.	0.9	6
101	Submarine landform assemblage produced beneath the Dotson–Getz palaeo-ice stream, West Antarctica. Geological Society Memoir, 2016, 46, 345-348.	0.9	5
102	Expedition 379 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
103	High-resolution seismic imagery of palaeochannels near West Wyalong, New South Wales. Exploration Geophysics, 2000, 31, 383-388.	0.5	4
104	Seismic refraction inversion of a palaeochannel system in the Lachlan Fold Belt, Central New South Wales. Exploration Geophysics, 2000, 31, 389-393.	0.5	4
105	Bedrock channels in Pine Island Bay, West Antarctica. Geological Society Memoir, 2016, 46, 217-218.	0.9	4
106	The Strikeâ€Slip West Wishbone Ridge and the Eastern Margin of the Hikurangi Plateau. Geochemistry, Geophysics, Geosystems, 2018, 19, 1199-1216.	1.0	4
107	Late Cretaceous to recent ocean-bottom currents in the SW Pacific Gateway, southeastern Chatham Rise, New Zealand. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 546, 109633.	1.0	4
108	Expedition 379 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4

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109	Wideâ€angle reflection studies of the crust and moho beneath the Archean Gneiss Terrane of southern Minnesota. Geophysical Research Letters, 1993, 20, 619-622.	1.5	3
110	Neogene sediment structures in Bounty Trough, eastern New Zealand: Influence of magmatic and oceanic current activity. Bulletin of the Geological Society of America, 2006, preprint, 1.	1.6	3
111	Site U1532. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	3
112	Reflection/Refraction Seismology. Encyclopedia of Earth Sciences Series, 2016, , 721-731.	0.1	3
113	Cenozoic history of Antarctic glaciation and climate from onshore and offshore studies. , 2022, , 41-164.		3
114	Deep water inflow slowed offshore expansion of the West Antarctic Ice Sheet at the Eocene-Oligocene transition. Communications Earth & Environment, 2022, 3, .	2.6	3
115	Site U1533. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
116	Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. Scientific Drilling, 0, 24, 61-70.	1.0	2
117	Seismostratigraphic Analysis and Glacial History of the Weddell Sea Region, Antarctica. Springer Earth System Sciences, 2015, , 207-217.	0.1	1
118	International viewpoint and news. Environmental Geology, 2009, 56, 1249-1250.	1.2	0