

Karsten Gohl

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116
papers

3,641
citations

33
h-index

56
g-index

137
ext. papers

4,150
ext. citations

5
avg, IF

5.23
L-index

#	Paper	IF	Citations
116	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014 , 100, 1-9	3.9	193
115	Deep structure of the Namibia continental margin as derived from integrated geophysical studies. <i>Journal of Geophysical Research</i> , 2000 , 105, 25829-25853		168
114	Geological record and reconstruction of the late Pliocene impact of the Eltanin asteroid in the Southern Ocean. <i>Nature</i> , 1997 , 390, 357-63	50.4	146
113	Antarctic topography at the Eocene-Oligocene boundary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012 , 335-336, 24-34	2.9	130
112	Bedform signature of a West Antarctic palaeo-ice stream reveals a multi-temporal record of flow and substrate control. <i>Quaternary Science Reviews</i> , 2009 , 28, 2774-2793	3.9	123
111	High-resolution animated tectonic reconstruction of the South Pacific and West Antarctic Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5,	3.6	121
110	Bathymetry of the Amundsen Sea continental shelf: Implications for geology, oceanography, and glaciology. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	113
109	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		106
108	Subglacial bedforms reveal complex basal regime in a zone of paleo-ice stream convergence, Amundsen Sea embayment, West Antarctica. <i>Geology</i> , 2009 , 37, 411-414	5	96
107	GlobSed: Updated Total Sediment Thickness in the World's Oceans. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 1756-1772	3.6	90
106	The Levantine Basin crustal structure and origin. <i>Tectonophysics</i> , 2006 , 418, 167-188	3.1	87
105	Flow and retreat of the Late Quaternary Pine Island-Thwaites palaeo-ice stream, West Antarctica. <i>Journal of Geophysical Research</i> , 2010 , 115,		82
104	Paleo ice flow and subglacial meltwater dynamics in Pine Island Bay, West Antarctica. <i>Cryosphere</i> , 2013 , 7, 249-262	5.5	75
103	West Antarctic Ice Sheet retreat driven by Holocene warm water incursions. <i>Nature</i> , 2017 , 547, 43-48	50.4	73
102	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	3.9	68
101	Grounding-line retreat of the West Antarctic Ice Sheet from inner Pine Island Bay. <i>Geology</i> , 2013 , 41, 35-38	5	59
100	The Agulhas Plateau: structure and evolution of a Large Igneous Province. <i>Geophysical Journal International</i> , 2008 , 174, 336-350	2.6	58

99	Geometry and development of glacial continental margin depositional systems in the Bellingshausen Sea. <i>Marine Geology</i> , 2000 , 162, 277-302	3.3	58
98	Gas escape features off New Zealand: Evidence of massive release of methane from hydrates. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	51
97	Rapid thinning of Pine Island Glacier in the early Holocene. <i>Science</i> , 2014 , 343, 999-1001	33.3	49
96	Reconstructions of Antarctic topography since the Eocene-Oligocene boundary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019 , 535, 109346	2.9	48
95	New Magnetic Anomaly Map of the Antarctic. <i>Geophysical Research Letters</i> , 2018 , 45, 6437-6449	4.9	48
94	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	3.3	48
93	The crustal structure of southern Baffin Bay: implications from a seismic refraction experiment. <i>Geophysical Journal International</i> , 2012 , 190, 37-58	2.6	45
92	The crustal role of the Agulhas Plateau, southwest Indian Ocean: evidence from seismic profiling. <i>Geophysical Journal International</i> , 2001 , 144, 632-646	2.6	45
91	Animated tectonic reconstruction of the Southern Pacific and alkaline volcanism at its convergent margins since Eocene times. <i>Tectonophysics</i> , 2009 , 464, 21-29	3.1	42
90	First exposure ages from the Amundsen Sea Embayment, West Antarctica: The Late Quaternary context for recent thinning of Pine Island, Smith, and Pope Glaciers. <i>Geology</i> , 2008 , 36, 223	5	41
89	GROWTH AND DISPERSAL OF A SOUTHEAST AFRICAN LARGE IGNEOUS PROVINCE. <i>South African Journal of Geology</i> , 2011 , 114, 379-386	1.6	39
88	Southern African continental margin: Dynamic processes of a transform margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	39
87	Eocene to Miocene geometry of the West Antarctic Rift System. <i>Australian Journal of Earth Sciences</i> , 2007 , 54, 1033-1045	1.4	39
86	Structure and breakup history of the rifted margin of West Antarctica in relation to Cretaceous separation from Zealandia and Bellingshausen plate motion. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	38
85	Playing jigsaw with Large Igneous Provinces: A plate tectonic reconstruction of Ontong Java Nui, West Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 3789-3807	3.6	35
84	Seamounts off the West Antarctic margin: A case for non-hotspot driven intraplate volcanism. <i>Gondwana Research</i> , 2014 , 25, 1660-1679	5.1	34
83	Quantitative tectonic reconstructions of Zealandia based on crustal thickness estimates. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	33
82	Variability in Cenozoic sedimentation along the continental rise of the Bellingshausen Sea, West Antarctica. <i>Marine Geology</i> , 2006 , 227, 279-298	3.3	33

81	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	4.3	32
80	West Antarctic Rift System in the Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	32
79	First geomorphological record and glacial history of an inter-ice stream ridge on the West Antarctic continental shelf. <i>Quaternary Science Reviews</i> , 2013 , 61, 47-61	3.9	31
78	Variability in Cenozoic sedimentation and paleo-water depths of the Weddell Sea basin related to pre-glacial and glacial conditions of Antarctica. <i>Global and Planetary Change</i> , 2014 , 118, 25-41	4.2	31
77	Temperate rainforests near the South Pole during peak Cretaceous warmth. <i>Nature</i> , 2020 , 580, 81-86	50.4	30
76	Is the Bounty Trough off eastern New Zealand an aborted rift?. <i>Journal of Geophysical Research</i> , 2007 , 112,		30
75	Amundsen Sea sediment drifts: Archives of modifications in oceanographic and climatic conditions. <i>Marine Geology</i> , 2012 , 299-302, 51-62	3.3	29
74	Deep-sea pre-glacial to glacial sedimentation in the Weddell Sea and southern Scotia Sea from a cross-basin seismic transect. <i>Marine Geology</i> , 2013 , 336, 61-83	3.3	29
73	Tectonic evolution of southern Baffin Bay and Davis Strait: Results from a seismic refraction transect between Canada and Greenland. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		29
72	Seismic and gravity data reveal Tertiary interplate subduction in the Bellingshausen Sea, southeast Pacific. <i>Geology</i> , 1997 , 25, 371	5	29
71	Extensional and magmatic nature of the Campbell Plateau and Great South Basin from deep crustal studies. <i>Tectonophysics</i> , 2009 , 472, 213-225	3.1	27
70	Tectonomorphic evolution of Marie Byrd Land Implications for Cenozoic rifting activity and onset of West Antarctic glaciation. <i>Global and Planetary Change</i> , 2016 , 145, 98-115	4.2	26
69	Deciphering tectonic phases of the Amundsen Sea Embayment shelf, West Antarctica, from a magnetic anomaly grid. <i>Tectonophysics</i> , 2013 , 585, 113-123	3.1	25
68	The Davis Strait crustal transform margin between two oceanic basins. <i>Geophysical Journal International</i> , 2013 , 193, 78-97	2.6	25
67	Subglacial bathymetry and sediment distribution beneath Pine Island Glacier ice shelf modeled using aerogravity and in situ geophysical data: New results. <i>Earth and Planetary Science Letters</i> , 2016 , 433, 63-75	5.3	24
66	Basement control on past ice sheet dynamics in the Amundsen Sea Embayment, West Antarctica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012 , 335-336, 35-41	2.9	23
65	Crustal structure of the southern margin of the African continent: Results from geophysical experiments. <i>Journal of Geophysical Research</i> , 2008 , 113,		22
64	Life of the Bellingshausen plate. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	22

63	Structure of Archean crust and passive margin of southwest Greenland from seismic wide-angle data. <i>Journal of Geophysical Research</i> , 1993 , 98, 6623-6638		22
62	Retreat of the West Antarctic Ice Sheet from the western Amundsen Sea shelf at a pre- or early LGM stage. <i>Quaternary Science Reviews</i> , 2014 , 91, 1-15	3.9	21
61	Impact of Weddell Sea shelf progradation on Antarctic bottom water formation during the Miocene. <i>Paleoceanography</i> , 2017 , 32, 304-317		20
60	The Evolving Paleobathymetry of the Circum-Antarctic Southern Ocean Since 34 Ma: A Key to Understanding Past Cryosphere-Ocean Developments. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009122	3.6	20
59	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		20
58	Agulhas Plateau, SW Indian Ocean: New evidence for excessive volcanism. <i>Geophysical Research Letters</i> , 1999 , 26, 1941-1944	4.9	20
57	Deep crustal structure of the sheared South African continental margin: first results of the Agulhas-Karoo Geoscience Transect. <i>South African Journal of Geology</i> , 2007 , 110, 393-406	1.6	19
56	West Antarctic ice sheet change since the Last Glacial Period. <i>Eos</i> , 2007 , 88, 189-190	1.5	17
55	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. <i>Earth and Planetary Science Letters</i> , 2020 , 529, 115864	5.3	17
54	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 443, 183-202	2.9	16
53	Early glaciation already during the Early Miocene in the Amundsen Sea, Southern Pacific: Indications from the distribution of sedimentary sequences. <i>Global and Planetary Change</i> , 2014 , 120, 92-104	4.2	16
52	Anomalous South Pacific lithosphere dynamics derived from new total sediment thickness estimates off the West Antarctic margin. <i>Global and Planetary Change</i> , 2014 , 123, 139-149	4.2	16
51	Granitoids and dykes of the Pine Island Bay region, West Antarctica. <i>Antarctic Science</i> , 2012 , 24, 473-484	1.7	16
50	Late Cenozoic ice sheet cyclicity in the western Amundsen Sea Embayment [Evidence from seismic records. <i>Global and Planetary Change</i> , 2009 , 69, 162-169	4.2	15
49	Preglacial to glacial sediment thickness grids for the Southern Pacific Margin of West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 4276-4285	3.6	15
48	The crustal structure and tectonic development of the continental margin of the Amundsen Sea Embayment, West Antarctica: implications from geophysical data. <i>Geophysical Journal International</i> , 2014 , 198, 327-341	2.6	14
47	Geothermal heat flux in the Amundsen Sea sector of West Antarctica: New insights from temperature measurements, depth to the bottom of the magnetic source estimation, and thermal modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 2657-2672	3.6	14
46	Bathymetric controls on calving processes at Pine Island Glacier. <i>Cryosphere</i> , 2018 , 12, 2039-2050	5.5	14

45	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	3.7	13
44	Glacial retreat in the Amundsen Sea sector, West Antarctica [First cosmogenic evidence from central Pine Island Bay and the Kohler Range. <i>Quaternary Science Reviews</i> , 2014 , 98, 166-173	3.9	12
43	Gridded isopach maps from the South Pacific and their use in interpreting the sedimentation history of the West Antarctic continental margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	12
42	The Agulhas Ridge, South Atlantic: The Peculiar Structure of a Fracture Zone. <i>Marine Geophysical Researches</i> , 2004 , 25, 305-319	2.3	12
41	The last glaciation of Bear Peninsula, central Amundsen Sea Embayment of Antarctica: Constraints on timing and duration revealed by in situ cosmogenic ¹⁴ C and ¹⁰ Be dating. <i>Quaternary Science Reviews</i> , 2017 , 178, 77-88	3.9	11
40	Glaciomarine sedimentation dynamics of the Abbot glacial trough of the Amundsen Sea Embayment shelf, West Antarctica. <i>Geological Society Special Publication</i> , 2013 , 381, 233-244	1.7	11
39	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	5.5	11
38	Cretaceous intracontinental rifting at the southern Chatham Rise margin and initialisation of seafloor spreading between Zealandia and Antarctica. <i>Tectonophysics</i> , 2020 , 776, 228298	3.1	11
37	Collision of Manihiki Plateau fragments to accretional margins of northern Andes and Antarctic Peninsula. <i>Tectonics</i> , 2017 , 36, 229-240	4.3	10
36	Seaward growth of Antarctic continental shelves since establishment of a continent-wide ice sheet: Patterns and mechanisms. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019 , 520, 44-54	2.9	10
35	Bottom-current control on sedimentation in the western Bellingshausen Sea, West Antarctica. <i>Geo-Marine Letters</i> , 2006 , 26, 90-101	1.9	10
34	Rift processes and crustal structure of the Amundsen Sea Embayment, West Antarctica, from 3D potential field modelling. <i>Marine Geophysical Researches</i> , 2015 , 36, 263-279	2.3	9
33	A geophysical survey of the De Gerlache Seamounts: preliminary results. <i>Geo-Marine Letters</i> , 1998 , 18, 19-25	1.9	8
32	3-D tomographic seismic inversion of a paleochannel system in central New South Wales, Australia. <i>Geophysics</i> , 2002 , 67, 1364-1371	3.1	8
31	Did massive glacial dewatering modify sedimentary structures on the Amundsen Sea Embayment shelf, West Antarctica?. <i>Global and Planetary Change</i> , 2012 , 92-93, 8-16	4.2	7
30	Expedition 379 Preliminary Report: Amundsen Sea West Antarctic Ice Sheet History. <i>Preliminary Report</i> , 2019 ,	1.5	7
29	Geohazard detection using 3D seismic data to enhance offshore scientific drilling site selection. <i>Scientific Drilling</i> , 28 , 1-27		7
28	A glacial landform assemblage from an inter-ice stream setting in the eastern Amundsen Sea Embayment, West Antarctica. <i>Geological Society Memoir</i> , 2016 , 46, 349-352	0.4	7

27	Submarine glacial-landform distribution across the West Antarctic margin, from grounding line to slope: the Pine Island–Whaites ice-stream system. <i>Geological Society Memoir</i> , 2016 , 46, 493-500	0.4	7
26	Elevated geothermal surface heat flow in the Amundsen Sea Embayment, West Antarctica. <i>Earth and Planetary Science Letters</i> , 2019 , 506, 530-539	5.3	7
25	Exhumation history along the eastern Amundsen Sea coast, West Antarctica, revealed by low-temperature thermochronology. <i>Tectonics</i> , 2016 , 35, 2239-2257	4.3	6
24	MeBo70 Seabed Drilling on a Polar Continental Shelf: Operational Report and Lessons From Drilling in the Amundsen Sea Embayment of West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 4235-4250	3.6	6
23	Crag-and-tail features on the Amundsen Sea continental shelf, West Antarctica. <i>Geological Society Memoir</i> , 2016 , 46, 199-200	0.4	6
22	Extent and Cessation of the Mid-Cretaceous Hikurangi Plateau Underthrusting: Impact on Global Plate Tectonics and the Submarine Chatham Rise. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019681	3.6	5
21	Submarine landform assemblage produced beneath the Dotson–Getz palaeo-ice stream, West Antarctica. <i>Geological Society Memoir</i> , 2016 , 46, 345-348	0.4	5
20	Seismic Expression of Glacially Deposited Sequences in the Bellingshausen and Amundsen Seas, West Antarctica. <i>Antarctic Research Series</i> , 2013 , 95-108		4
19	Differences in ice retreat across Pine Island Bay, West Antarctica, since the Last Glacial Maximum: Indications from multichannel seismic reflection data. <i>US Geological Survey Open-File Report</i> ,		4
18	Bedrock channels in Pine Island Bay, West Antarctica. <i>Geological Society Memoir</i> , 2016 , 46, 217-218	0.4	4
17	Multiphase magmatic and tectonic evolution of a large igneous province - Evidence from the crustal structure of the Manihiki Plateau, western Pacific. <i>Tectonophysics</i> , 2019 , 750, 434-457	3.1	4
16	The Strike-Slip West Wishbone Ridge and the Eastern Margin of the Hikurangi Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 1199-1216	3.6	3
15	Neogene sediment structures in Bounty Trough, eastern New Zealand: Influence of magmatic and oceanic current activity. <i>Bulletin of the Geological Society of America</i> , 2006 , preprint, 1	3.9	3
14	High-resolution seismic imagery of palaeochannels near West Wyalong, New South Wales. <i>Exploration Geophysics</i> , 2000 , 31, 383-388	1	3
13	Seismic refraction inversion of a palaeochannel system in the Lachlan Fold Belt, Central New South Wales. <i>Exploration Geophysics</i> , 2000 , 31, 389-393	1	3
12	Wide-angle reflection studies of the crust and moho beneath the Archean Gneiss Terrane of southern Minnesota. <i>Geophysical Research Letters</i> , 1993 , 20, 619-622	4.9	3
11	Volume 379: Amundsen Sea West Antarctic Ice Sheet History. <i>Proceedings of the International Ocean Discovery Program</i> ,		3
10	Late Cretaceous to recent ocean-bottom currents in the SW Pacific Gateway, southeastern Chatham Rise, New Zealand. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020 , 546, 109633	2.9	2

9	More than ten years of successful operation of the MARUM-MeBo sea bed drilling technology: Highlights of recent scientific drilling campaigns		2
8	Paleo ice flow and subglacial meltwater dynamics in Pine Island Bay, West Antarctica		2
7	Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. <i>Scientific Drilling</i> , 24, 61-70		2
6	High geothermal heat flow beneath Thwaites Glacier in West Antarctica inferred from aeromagnetic data. <i>Communications Earth & Environment</i> , 2021, 2,	6.1	2
5	The diverse crustal structure and magmatic evolution of the Manihiki Plateau, central Pacific 2014,		1
4	Cenozoic history of Antarctic glaciation and climate from onshore and offshore studies 2022, 41-164		1
3	Seismostratigraphic Analysis and Glacial History of the Weddell Sea Region, Antarctica. <i>Springer Earth System Sciences</i> , 2015, 207-217	0.3	1
2	Morphometry of bedrock meltwater channels on Antarctic inner continental shelves: Implications for channel development and subglacial hydrology. <i>Geomorphology</i> , 2020, 370, 107369	4.3	1
1	Evidence for a Highly Dynamic West Antarctic Ice Sheet During the Pliocene. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093103	4.9	0