

Gisela Winckler

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97 papers	3,348 citations	35 h-index	54 g-index
112 ext. papers	3,936 ext. citations	8.8 avg, IF	5.23 L-index

#	Paper	IF	Citations
97	Gas hydrate destabilization: enhanced dewatering, benthic material turnover and large methane plumes at the Cascadia convergent margin. <i>Earth and Planetary Science Letters</i> , 1999 , 170, 1-15	5.3	333
96	Covariant glacial-interglacial dust fluxes in the equatorial Pacific and Antarctica. <i>Science</i> , 2008 , 320, 93-6	33.3	188
95	Gustiness: The driver of glacial dustiness?. <i>Quaternary Science Reviews</i> , 2010 , 29, 2340-2350	3.9	167
94	The magnitude, timing and abruptness of changes in North African dust deposition over the last 20,000yr. <i>Earth and Planetary Science Letters</i> , 2013 , 371-372, 163-176	5.3	154
93	Increased dust deposition in the Pacific Southern Ocean during glacial periods. <i>Science</i> , 2014 , 343, 403-7	33.3	149
92	Twelve thousand years of dust: the Holocene global dust cycle constrained by natural archives. <i>Climate of the Past</i> , 2015 , 11, 869-903	3.9	84
91	Comparing modeled and observed changes in mineral dust transport and deposition to Antarctica between the Last Glacial Maximum and current climates. <i>Climate Dynamics</i> , 2012 , 38, 1731-1755	4.2	74
90	Modern CaCO ₃ preservation in equatorial Pacific sediments in the context of late-Pleistocene glacial cycles. <i>Marine Chemistry</i> , 2008 , 111, 30-46	3.7	72
89	Hazard potential of volcanic flank collapses raised by new megatsunami evidence. <i>Science Advances</i> , 2015 , 1, e1500456	14.3	65
88	Salty brines on the Mediterranean sea floor. <i>Nature</i> , 1997 , 387, 31-32	50.4	62
87	The Southern Glacial Maximum 65,000 years ago and its Unfinished Termination. <i>Quaternary Science Reviews</i> , 2015 , 114, 52-60	3.9	60
86	Ocean dynamics, not dust, have controlled equatorial Pacific productivity over the past 500,000 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6119-24	11.5	58
85	Antarctic Zone nutrient conditions during the last two glacial cycles. <i>Paleoceanography</i> , 2015 , 30, 845-862		57
84	Hydrothermal gases offshore Milos Island, Greece. <i>Chemical Geology</i> , 1996 , 130, 161-173	4.2	57
83	Dust fluxes and iron fertilization in Holocene and Last Glacial Maximum climates. <i>Geophysical Research Letters</i> , 2015 , 42, 6014-6023	4.9	56
82	Constraints on origin and evolution of Red Sea brines from helium and argon isotopes. <i>Earth and Planetary Science Letters</i> , 2001 , 184, 671-683	5.3	55
81	Eolian dust input to the Subarctic North Pacific. <i>Earth and Planetary Science Letters</i> , 2014 , 387, 252-263	5.3	54

80	The role of mineral-dust aerosols in polar temperature amplification. <i>Nature Climate Change</i> , 2013 , 3, 487-491	21.4	54
79	Younger Dryas deglaciation of Scotland driven by warming summers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6215-9	11.5	51
78	No iron fertilization in the equatorial Pacific Ocean during the last ice age. <i>Nature</i> , 2016 , 529, 519-22	50.4	50
77	Model insight into glacial-interglacial paleodust records. <i>Quaternary Science Reviews</i> , 2011 , 30, 832-854	3.9	49
76	Monsoon-driven Saharan dust variability over the past 240,000 years. <i>Science Advances</i> , 2019 , 5, eaav1887	14.3	49
75	Carbon isotopes and habitat of polar planktic foraminifera in the Okhotsk Sea: the carbonate ion effect under natural conditions. <i>Marine Micropaleontology</i> , 2002 , 45, 83-99	1.7	45
74	Synchronous volcanic eruptions and abrupt climate change ~17.7 ka plausibly linked by stratospheric ozone depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10035-10040	11.5	43
73	Tracing dust input to the global ocean using thorium isotopes in marine sediments: ThoroMap. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1526-1541	5.9	42
72	Relative timing of last glacial maximum and late-glacial events in the central tropical Andes. <i>Quaternary Science Reviews</i> , 2009 , 28, 2514-2526	3.9	41
71	30,000 years of cosmic dust in Antarctic ice. <i>Science</i> , 2006 , 313, 491	33.3	40
70	Equatorial Pacific productivity and dust flux during the mid-Pleistocene climate transition. <i>Paleoceanography</i> , 2005 , 20, n/a-n/a		38
69	Origin of trace gases in submarine hydrothermal vents of the Kolbeinsey Ridge, north Iceland. <i>Earth and Planetary Science Letters</i> , 1999 , 171, 83-93	5.3	38
68	Sub sea floor boiling of Red Sea brines: new indication from noble gas data. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 1567-1575	5.5	37
67	Highly bioavailable dust-borne iron delivered to the Southern Ocean during glacial periods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11180-11185	11.5	37
66	Tracking eolian dust with helium and thorium: Impacts of grain size and provenance. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 175, 47-67	5.5	36
65	Quantifying lithogenic inputs to the North Pacific Ocean using the long-lived thorium isotopes. <i>Earth and Planetary Science Letters</i> , 2013 , 383, 16-25	5.3	35
64	High particulate iron(II) content in glacially sourced dusts enhances productivity of a model diatom. <i>Science Advances</i> , 2017 , 3, e1700314	14.3	35
63	Comparing dust flux records from the Subarctic North Pacific and Greenland: Implications for atmospheric transport to Greenland and for the application of dust as a chronostratigraphic tool. <i>Paleoceanography</i> , 2015 , 30, 583-600		35

62	A cosmogenic ^3He chronology of late Quaternary glacier fluctuations in North Island, New Zealand (39°S). <i>Quaternary Science Reviews</i> , 2016 , 132, 40-56	3.9	30
61	Terrestrial manganese-53: A new monitor of Earth surface processes. <i>Earth and Planetary Science Letters</i> , 2006 , 251, 334-345	5.3	30
60	East Greenland ice core dust record reveals timing of Greenland ice sheet advance and retreat. <i>Nature Communications</i> , 2019 , 10, 4494	17.4	29
59	Glacier fluctuations in the southern Peruvian Andes during the late-glacial period, constrained with cosmogenic ^3He . <i>Journal of Quaternary Science</i> , 2011 , 26, 37-43	2.3	29
58	The response of excess ^{230}Th and extraterrestrial ^3He to sediment redistribution at the Blake Ridge, western North Atlantic. <i>Earth and Planetary Science Letters</i> , 2010 , 299, 138-149	5.3	29
57	^{230}Th Normalization: New Insights on an Essential Tool for Quantifying Sedimentary Fluxes in the Modern and Quaternary Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2019PA003820	3.3	28
56	Productivity patterns in the equatorial Pacific over the last 30,000 years. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 850-865	5.9	26
55	Climate-related response of dust flux to the central equatorial Pacific over the past 150 kyr. <i>Earth and Planetary Science Letters</i> , 2017 , 457, 160-172	5.3	26
54	Does interplanetary dust control 100 kyr glacial cycles?. <i>Quaternary Science Reviews</i> , 2004 , 23, 1873-1878	3.9	26
53	Trace element (Mn, Zn, Ni, V) and authigenic uranium (aU) geochemistry reveal sedimentary redox history on the Juan de Fuca Ridge, North Pacific Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 236, 79-98	5.5	24
52	Elevated East Antarctic outlet glaciers during warmer-than-present climates in southern Victoria Land. <i>Global and Planetary Change</i> , 2011 , 79, 61-72	4.2	24
51	Large deglacial shifts of the Pacific Intertropical Convergence Zone. <i>Nature Communications</i> , 2016 , 7, 10449	17.4	23
50	The Last Glacial Maximum in the central North Island, New Zealand: palaeoclimate inferences from glacier modelling. <i>Climate of the Past</i> , 2016 , 12, 943-960	3.9	22
49	Concomitant variability in high-latitude aerosols, water isotopes and the hydrologic cycle. <i>Nature Geoscience</i> , 2018 , 11, 853-859	18.3	22
48	Objective estimates of mantle ^3He in the ocean and implications for constraining the deep ocean circulation. <i>Earth and Planetary Science Letters</i> , 2017 , 458, 305-314	5.3	21
47	Repeated storage of respired carbon in the equatorial Pacific Ocean over the last three glacial cycles. <i>Nature Communications</i> , 2017 , 8, 1727	17.4	20
46	Poleward and weakened westerlies during Pliocene warmth. <i>Nature</i> , 2021 , 589, 70-75	50.4	20
45	Productivity feedback did not terminate the Paleocene-Eocene Thermal Maximum (PETM). <i>Climate of the Past</i> , 2010 , 6, 265-272	3.9	19

44	Hydrothermal deposition on the Juan de Fuca Ridge over multiple glacial/interglacial cycles. <i>Earth and Planetary Science Letters</i> , 2017 , 479, 120-132	5.3	18
43	Glacial-to-interglacial changes in nitrate supply and consumption in the subarctic North Pacific from microfossil-bound N isotopes at two trophic levels. <i>Paleoceanography</i> , 2015 , 30, 1217-1232		18
42	Biogeography in $^{231}\text{Pa}/^{230}\text{Th}$ ratios and a balanced ^{231}Pa budget for the Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2014 , 391, 307-318	5.3	18
41	Excess helium and argon of radiogenic origin in Mediterranean brine basins. <i>Earth and Planetary Science Letters</i> , 1997 , 151, 225-231	5.3	18
40	Holocene glacier behavior around the northern Antarctic Peninsula and possible causes. <i>Earth and Planetary Science Letters</i> , 2020 , 534, 116077	5.3	17
39	A test of the cosmogenic ^3He production rate in the south-west Pacific (39°S). <i>Journal of Quaternary Science</i> , 2015 , 30, 79-87	2.3	17
38	Noble Gases in Ocean Waters and Sediments. <i>Reviews in Mineralogy and Geochemistry</i> , 2002 , 47, 701-730	7.1	17
37	Deep Pacific storage of respired carbon during the last ice age: Perspectives from bottom water oxygen reconstructions. <i>Quaternary Science Reviews</i> , 2020 , 230, 106065	3.9	17
36	East Antarctic ice sheet stability recorded in a high-elevation ice-cored moraine. <i>Quaternary Science Reviews</i> , 2017 , 159, 88-102	3.9	16
35	A cosmogenic ^{10}Be chronology for the local last glacial maximum and termination in the Cordillera Oriental, southern Peruvian Andes: Implications for the tropical role in global climate. <i>Quaternary Science Reviews</i> , 2016 , 148, 54-67	3.9	16
34	Using the natural spatial pattern of marine productivity in the Subarctic North Pacific to evaluate paleoproductivity proxies. <i>Paleoceanography</i> , 2014 , 29, 438-453		15
33	A global scavenging and circulation ocean model of thorium-230 and protactinium-231 with improved particle dynamics (NEMOBroThorP1.0). <i>Geoscientific Model Development</i> , 2018 , 11, 3537-3556	6.3	15
32	Aerosol-Climate Interactions During the Last Glacial Maximum. <i>Current Climate Change Reports</i> , 2018 , 4, 99-114	9	14
31	Middle to Late Pleistocene stability of the central East Antarctic Ice Sheet at the head of Law Glacier. <i>Geology</i> , 2017 , 45, 963-966	5	13
30	A geochemical approach to reconstruct modern dust fluxes and sources to the South Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 264, 205-223	5.5	12
29	Sedimentation, stratigraphy and physical properties of sediment on the Juan de Fuca Ridge. <i>Marine Geology</i> , 2016 , 380, 163-173	3.3	12
28	Pyroxene separation by HF leaching and its impact on helium surface-exposure dating. <i>Quaternary Geochronology</i> , 2014 , 23, 1-8	2.7	12
27	Extraterrestrial ^3He in Paleocene sediments from Shatsky Rise: Constraints on sedimentation rate variability. <i>Earth and Planetary Science Letters</i> , 2009 , 287, 24-30	5.3	12

26	Global Ocean Sediment Composition and Burial Flux in the Deep Sea. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006769	5.9	12
25	Thorium and protactinium isotopes as tracers of marine particle fluxes and deep water circulation in the Mediterranean Sea. <i>Marine Chemistry</i> , 2018 , 199, 12-23	3.7	11
24	No evidence for equatorial Pacific dust fertilization. <i>Nature Geoscience</i> , 2019 , 12, 154-155	18.3	11
23	A wind-albedo-wind feedback driven by landscape evolution. <i>Nature Communications</i> , 2020 , 11, 96	17.4	10
22	Geochemical Tracers of Extraterrestrial Matter in Sediments. <i>Elements</i> , 2016 , 12, 191-196	3.8	10
21	A circumpolar dust conveyor in the glacial Southern Ocean. <i>Nature Communications</i> , 2020 , 11, 5655	17.4	9
20	Change in dust seasonality as the primary driver for orbital-scale dust storm variability in East Asia. <i>Geophysical Research Letters</i> , 2017 , 44, 3796-3805	4.9	8
19	New Zealand as a source of mineral dust to the atmosphere and ocean. <i>Quaternary Science Reviews</i> , 2021 , 251, 106659	3.9	8
18	Physical Weathering Intensity Controls Bioavailable Primary Iron(II) Silicate Content in Major Global Dust Sources. <i>Geophysical Research Letters</i> , 2019 , 46, 10854-10864	4.9	6
17	Late-glacial and Holocene glacier fluctuations in North Island, New Zealand. <i>Quaternary Science Reviews</i> , 2019 , 223, 105914	3.9	6
16	Thorium isotopes in the Southeast Atlantic Ocean: Tracking scavenging during water mass mixing along neutral density surfaces. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019 , 149, 103042	2.5	4
15	Atmospheric Dust Inputs, Iron Cycling, and Biogeochemical Connections in the South Pacific Ocean From Thorium Isotopes. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006562	5.9	4
14	The Penultimate Glacial Termination and Variability of the Pacific Intertropical Convergence Zone. <i>Geophysical Research Letters</i> , 2019 , 46, 4826-4835	4.9	3
13	Performance of CRONUS-P 1A pyroxene reference material for helium isotope analysis. <i>Quaternary Geochronology</i> , 2016 , 31, 237-239	2.7	3
12	Contrasted release of insoluble elements (Fe, Al, rare earth elements, Th, Pa) after dust deposition in seawater: a tank experiment approach. <i>Biogeosciences</i> , 2021 , 18, 2663-2678	4.6	3
11	The spatial footprint of hydrothermal scavenging on ²³⁰ ThXS-derived mass accumulation rates. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 272, 218-234	5.5	2
10	Helium in diamonds unravels over a billion years of craton metasomatism. <i>Nature Communications</i> , 2021 , 12, 2667	17.4	2
9	Opposite dust grain-size patterns in the Pacific and Atlantic sectors of the Southern Ocean during the last 260,000 years. <i>Quaternary Science Reviews</i> , 2021 , 263, 106978	3.9	2

8	Regional patterns and temporal evolution of ocean iron fertilization and CO ₂ drawdown during the last glacial termination. <i>Earth and Planetary Science Letters</i> , 2021 , 554, 116675	5.3	2
7	Global Ocean Sediment Composition and Burial Flux in the Deep Sea		2
6	A Quantitative Model-Based Assessment of Stony Desert Landscape Evolution in the Hami Basin, China: Implications for Plio-Pleistocene Dust Production in Eastern Asia. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090064	4.9	1
5	Late Holocene dust provenance at Siple Dome, Antarctica. <i>Quaternary Science Reviews</i> , 2021 , 274, 107273	3.9	1
4	Variations in export production, lithogenic sediment transport and iron fertilization in the Pacific sector of the Drake Passage over the past 400 kyr. <i>Climate of the Past</i> , 2022 , 18, 147-166	3.9	0
3	Cosmogenic nuclide exposure age scatter records glacial history and processes in McMurdo Sound, Antarctica. <i>Geochronology</i> , 2021 , 3, 505-523	3.8	0
2	History of earthquakes along the creeping section of the San Andreas fault, California, USA. <i>Geology</i> , 2022 , 50, 516-521	5	
1	Quantifying late Pleistocene to Holocene erosion rates in the Hami Basin, China: Insights into Pleistocene dust dynamics of an East Asian stony desert. <i>Geophysical Research Letters</i> ,	4.9	