Gisela Winckler

List of Publications by Year in Descending Order

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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	Variations in export production, lithogenic sediment transport and iron fertilization in the Pacific sector of the Drake Passage over the past 400 kyr. *Climate of the Past*, **2022**, 18, 147-166	3.9	0
96	History of earthquakes along the creeping section of the San Andreas fault, California, USA. *Geology*, **2022**, 50, 516-521	5	
95	Late Holocene dust provenance at Siple Dome, Antarctica. *Quaternary Science Reviews*, **2021**, 274, 107274	3.9	1
94	Cosmogenic nuclide exposure age scatter records glacial history and processes in McMurdo Sound, Antarctica. *Geochronology*, **2021**, 3, 505-523	3.8	0
93	Global Ocean Sediment Composition and Burial Flux in the Deep Sea. *Global Biogeochemical Cycles*, **2021**, 35, e2020GB006769	5.9	12
92	Contrasted release of insoluble elements (Fe, Al, rare earth elements, Th, Pa) after dust deposition in seawater: a tank experiment approach. *Biogeosciences*, **2021**, 18, 2663-2678	4.6	3
91	Helium in diamonds unravels over a billion years of craton metasomatism. *Nature Communications*, **2021**, 12, 2667	17.4	2
90	Opposite dust grain-size patterns in the Pacific and Atlantic sectors of the Southern Ocean during the last 260,000 years. *Quaternary Science Reviews*, **2021**, 263, 106978	3.9	2
89	New Zealand as a source of mineral dust to the atmosphere and ocean. *Quaternary Science Reviews*, **2021**, 251, 106659	3.9	8
88	Regional patterns and temporal evolution of ocean iron fertilization and CO2 drawdown during the last glacial termination. *Earth and Planetary Science Letters*, **2021**, 554, 116675	5.3	2
87	Poleward and weakened westerlies during Pliocene warmth. *Nature*, **2021**, 589, 70-75	50.4	20
86	A Quantitative Model-Based Assessment of Stony Desert Landscape Evolution in the Hami Basin, China: Implications for Plio-Pleistocene Dust Production in Eastern Asia. *Geophysical Research Letters*, **2020**, 47, e2020GL090064	4.9	1
85	230Th Normalization: New Insights on an Essential Tool for Quantifying Sedimentary Fluxes in the Modern and Quaternary Ocean. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2019PA003820	3.3	28
84	Holocene glacier behavior around the northern Antarctic Peninsula and possible causes. *Earth and Planetary Science Letters*, **2020**, 534, 116077	5.3	17
83	The spatial footprint of hydrothermal scavenging on 230ThXS-derived mass accumulation rates. *Geochimica Et Cosmochimica Acta*, **2020**, 272, 218-234	5.5	2
82	A wind-albedo-wind feedback driven by landscape evolution. *Nature Communications*, **2020**, 11, 96	17.4	10
81	Deep Pacific storage of respired carbon during the last ice age: Perspectives from bottom water oxygen reconstructions. *Quaternary Science Reviews*, **2020**, 230, 106065	3.9	17

80	A circumpolar dust conveyor in the glacial Southern Ocean. *Nature Communications*, **2020**, 11, 5655	17.4	9
79	Atmospheric Dust Inputs, Iron Cycling, and Biogeochemical Connections in the South Pacific Ocean From Thorium Isotopes. *Global Biogeochemical Cycles*, **2020**, 34, e2020GB006562	5.9	4
78	A geochemical approach to reconstruct modern dust fluxes and sources to the South Pacific. *Geochimica Et Cosmochimica Acta*, **2019**, 264, 205-223	5.5	12
77	Thorium isotopes in the Southeast Atlantic Ocean: Tracking scavenging during water mass mixing along neutral density surfaces. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2019**, 149, 103042	2.5	4
76	The Penultimate Glacial Termination and Variability of the Pacific Intertropical Convergence Zone. *Geophysical Research Letters*, **2019**, 46, 4826-4835	4.9	3
75	Physical Weathering Intensity Controls Bioavailable Primary Iron(II) Silicate Content in Major Global Dust Sources. *Geophysical Research Letters*, **2019**, 46, 10854-10864	4.9	6
74	East Greenland ice core dust record reveals timing of Greenland ice sheet advance and retreat. *Nature Communications*, **2019**, 10, 4494	17.4	29
73	Late-glacial and Holocene glacier fluctuations in North Island, New Zealand. *Quaternary Science Reviews*, **2019**, 223, 105914	3.9	6
72	No evidence for equatorial Pacific dust fertilization. *Nature Geoscience*, **2019**, 12, 154-155	18.3	11
71	Monsoon-driven Saharan dust variability over the past 240,000 years. *Science Advances*, **2019**, 5, eaav1887	14.3	49
70	Trace element (Mn, Zn, Ni, V) and authigenic uranium (aU) geochemistry reveal sedimentary redox history on the Juan de Fuca Ridge, North Pacific Ocean. *Geochimica Et Cosmochimica Acta*, **2018**, 236, 79-98	5.5	24
69	Thorium and protactinium isotopes as tracers of marine particle fluxes and deep water circulation in the Mediterranean Sea. *Marine Chemistry*, **2018**, 199, 12-23	3.7	11
68	Aerosol-Climate Interactions During the Last Glacial Maximum. *Current Climate Change Reports*, **2018**, 4, 99-114	9	14
67	A global scavenging and circulation ocean model of thorium-230 and protactinium-231 with improved particle dynamics (NEMO□ProThorP□0.1). *Geoscientific Model Development*, **2018**, 11, 3537-3556	6.3	15
66	Highly bioavailable dust-borne iron delivered to the Southern Ocean during glacial periods. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11180-11185	11.5	37
65	Concomitant variability in high-latitude aerosols, water isotopes and the hydrologic cycle. *Nature Geoscience*, **2018**, 11, 853-859	18.3	22
64	Objective estimates of mantle 3He in the ocean and implications for constraining the deep ocean circulation. *Earth and Planetary Science Letters*, **2017**, 458, 305-314	5.3	21
63	East Antarctic ice sheet stability recorded in a high-elevation ice-cored moraine. *Quaternary Science Reviews*, **2017**, 159, 88-102	3.9	16

62	Productivity patterns in the equatorial Pacific over the last 30,000 years. *Global Biogeochemical Cycles*, **2017**, 31, 850-865	5.9	26
61	Change in dust seasonality as the primary driver for orbital-scale dust storm variability in East Asia. *Geophysical Research Letters*, **2017**, 44, 3796-3805	4.9	8
60	Climate-related response of dust flux to the central equatorial Pacific over the past 150 kyr. *Earth and Planetary Science Letters*, **2017**, 457, 160-172	5.3	26
59	Hydrothermal deposition on the Juan de Fuca Ridge over multiple glacial–interglacial cycles. *Earth and Planetary Science Letters*, **2017**, 479, 120-132	5.3	18
58	Middle to Late Pleistocene stability of the central East Antarctic Ice Sheet at the head of Law Glacier. *Geology*, **2017**, 45, 963-966	5	13
57	High particulate iron(II) content in glacially sourced dusts enhances productivity of a model diatom. *Science Advances*, **2017**, 3, e1700314	14.3	35
56	Synchronous volcanic eruptions and abrupt climate change ~17.7 ka plausibly linked by stratospheric ozone depletion. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10035-10040	11.5	43
55	Repeated storage of respired carbon in the equatorial Pacific Ocean over the last three glacial cycles. *Nature Communications*, **2017**, 8, 1727	17.4	20
54	Sedimentation, stratigraphy and physical properties of sediment on the Juan de Fuca Ridge. *Marine Geology*, **2016**, 380, 163-173	3.3	12
53	Tracing dust input to the global ocean using thorium isotopes in marine sediments: ThoroMap. *Global Biogeochemical Cycles*, **2016**, 30, 1526-1541	5.9	42
52	No iron fertilization in the equatorial Pacific Ocean during the last ice age. *Nature*, **2016**, 529, 519-22	50.4	50
51	Tracking eolian dust with helium and thorium: Impacts of grain size and provenance. *Geochimica Et Cosmochimica Acta*, **2016**, 175, 47-67	5.5	36
50	Large deglacial shifts of the Pacific Intertropical Convergence Zone. *Nature Communications*, **2016**, 7, 10449	17.4	23
49	A cosmogenic 3He chronology of late Quaternary glacier fluctuations in North Island, New Zealand (39°S). *Quaternary Science Reviews*, **2016**, 132, 40-56	3.9	30
48	Performance of CRONUS-P – A pyroxene reference material for helium isotope analysis. *Quaternary Geochronology*, **2016**, 31, 237-239	2.7	3
47	The Last Glacial Maximum in the central North Island, New Zealand: palaeoclimate inferences from glacier modelling. *Climate of the Past*, **2016**, 12, 943-960	3.9	22
46	Geochemical Tracers of Extraterrestrial Matter in Sediments. *Elements*, **2016**, 12, 191-196	3.8	10
45	Ocean dynamics, not dust, have controlled equatorial Pacific productivity over the past 500,000 years. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 6119-24	11.5	58

44	A cosmogenic 10Be chronology for the local last glacial maximum and termination in the Cordillera Oriental, southern Peruvian Andes: Implications for the tropical role in global climate. *Quaternary Science Reviews*, **2016**, 148, 54-67	3.9	16
43	The Southern Glacial Maximum 65,000 years ago and its Unfinished Termination. *Quaternary Science Reviews*, **2015**, 114, 52-60	3.9	60
42	Hazard potential of volcanic flank collapses raised by new megatsunami evidence. *Science Advances* , **2015**, 1, e1500456	14.3	65
41	Antarctic Zone nutrient conditions during the last two glacial cycles. *Paleoceanography*, **2015**, 30, 845-862		57
40	Glacial-to-interglacial changes in nitrate supply and consumption in the subarctic North Pacific from microfossil-bound N isotopes at two trophic levels. *Paleoceanography*, **2015**, 30, 1217-1232		18
39	Dust fluxes and iron fertilization in Holocene and Last Glacial Maximum climates. *Geophysical Research Letters*, **2015**, 42, 6014-6023	4.9	56
38	A test of the cosmogenic 3He production rate in the south-west Pacific (39°S). *Journal of Quaternary Science*, **2015**, 30, 79-87	2.3	17
37	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. *Paleoceanography*, **2015**, 30, 583-600		35
36	Twelve thousand years of dust: the Holocene global dust cycle constrained by natural archives. *Climate of the Past*, **2015**, 11, 869-903	3.9	84
35	Increased dust deposition in the Pacific Southern Ocean during glacial periods. *Science*, **2014**, 343, 403-7	33.3	149
34	Eolian dust input to the Subarctic North Pacific. *Earth and Planetary Science Letters*, **2014**, 387, 252-263	5.3	54
33	Pyroxene separation by HF leaching and its impact on helium surface-exposure dating. *Quaternary Geochronology*, **2014**, 23, 1-8	2.7	12
32	Using the natural spatial pattern of marine productivity in the Subarctic North Pacific to evaluate paleoproductivity proxies. *Paleoceanography*, **2014**, 29, 438-453		15
31	Younger Dryas deglaciation of Scotland driven by warming summers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6215-9	11.5	51
30	Biogeography in 231Pa/230Th ratios and a balanced 231Pa budget for the Pacific Ocean. *Earth and Planetary Science Letters*, **2014**, 391, 307-318	5.3	18
29	Quantifying lithogenic inputs to the North Pacific Ocean using the long-lived thorium isotopes. *Earth and Planetary Science Letters*, **2013**, 383, 16-25	5.3	35
28	The role of mineral-dust aerosols in polar temperature amplification. *Nature Climate Change*, **2013**, 3, 487-491	21.4	54
27	The magnitude, timing and abruptness of changes in North African dust deposition over the last 20,000yr. *Earth and Planetary Science Letters*, **2013**, 371-372, 163-176	5.3	154

26	Comparing modeled and observed changes in mineral dust transport and deposition to Antarctica between the Last Glacial Maximum and current climates. *Climate Dynamics*, **2012**, 38, 1731-1755	4.2	74
25	Elevated East Antarctic outlet glaciers during warmer-than-present climates in southern Victoria Land. *Global and Planetary Change*, **2011**, 79, 61-72	4.2	24
24	Model insight into glacial–interglacial paleodust records. *Quaternary Science Reviews*, **2011**, 30, 832-854	3.9	49
23	Glacier fluctuations in the southern Peruvian Andes during the late-glacial period, constrained with cosmogenic 3He. *Journal of Quaternary Science*, **2011**, 26, 37-43	2.3	29
22	Productivity feedback did not terminate the Paleocene-Eocene Thermal Maximum (PETM). *Climate of the Past*, **2010**, 6, 265-272	3.9	19
21	The response of excess 230Th and extraterrestrial 3He to sediment redistribution at the Blake Ridge, western North Atlantic. *Earth and Planetary Science Letters*, **2010**, 299, 138-149	5.3	29
20	Gustiness: The driver of glacial dustiness?. *Quaternary Science Reviews*, **2010**, 29, 2340-2350	3.9	167
19	Extraterrestrial 3He in Paleocene sediments from Shatsky Rise: Constraints on sedimentation rate variability. *Earth and Planetary Science Letters*, **2009**, 287, 24-30	5.3	12
18	Relative timing of last glacial maximum and late-glacial events in the central tropical Andes. *Quaternary Science Reviews*, **2009**, 28, 2514-2526	3.9	41
17	Covariant glacial-interglacial dust fluxes in the equatorial Pacific and Antarctica. *Science*, **2008**, 320, 93-6	33.3	188
16	Modern CaCO3 preservation in equatorial Pacific sediments in the context of late-Pleistocene glacial cycles. *Marine Chemistry*, **2008**, 111, 30-46	3.7	72
15	30,000 years of cosmic dust in Antarctic ice. *Science*, **2006**, 313, 491	33.3	40
14	Terrestrial manganese-53 – A new monitor of Earth surface processes. *Earth and Planetary Science Letters*, **2006**, 251, 334-345	5.3	30
13	Equatorial Pacific productivity and dust flux during the mid-Pleistocene climate transition. *Paleoceanography*, **2005**, 20, n/a-n/a		38
12	Does interplanetary dust control 100 kyr glacial cycles?. *Quaternary Science Reviews*, **2004**, 23, 1873-1878	3.9	26
11	Carbon isotopes and habitat of polar planktic foraminifera in the Okhotsk Sea: the carbonate ion effect under natural conditions. *Marine Micropaleontology*, **2002**, 45, 83-99	1.7	45
10	Noble Gases in Ocean Waters and Sediments. *Reviews in Mineralogy and Geochemistry*, **2002**, 47, 701-730	7.1	17
9	Constraints on origin and evolution of Red Sea brines from helium and argon isotopes. *Earth and Planetary Science Letters*, **2001**, 184, 671-683	5.3	55

8	Sub sea floor boiling of Red Sea brines: new indication from noble gas data. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 1567-1575	5.5	37
7	Gas hydrate destabilization: enhanced dewatering, benthic material turnover and large methane plumes at the Cascadia convergent margin. *Earth and Planetary Science Letters*, **1999**, 170, 1-15	5.3	333
6	Origin of trace gases in submarine hydrothermal vents of the Kolbeinsey Ridge, north Iceland. *Earth and Planetary Science Letters*, **1999**, 171, 83-93	5.3	38
5	Excess helium and argon of radiogenic origin in Mediterranean brine basins. *Earth and Planetary Science Letters*, **1997**, 151, 225-231	5.3	18
4	Salty brines on the Mediterranean sea floor. *Nature*, **1997**, 387, 31-32	50.4	62
3	Hydrothermal gases offshore Milos Island, Greece. *Chemical Geology*, **1996**, 130, 161-173	4.2	57
2	Global Ocean Sediment Composition and Burial Flux in the Deep Sea		2
1	Quantifying late Pleistocene to Holocene erosion rates in the Hami Basin, China: Insights into Pleistocene dust dynamics of an East Asian stony desert. *Geophysical Research Letters*,	4.9	