

Gesine Mollenhauer

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.

116
papers

3,565
citations

33
h-index

56
g-index

171
ext. papers

4,230
ext. citations

6.2
avg, IF

5.13
L-index

#	Paper	IF	Citations
116	Giant sponge grounds of Central Arctic seamounts are associated with extinct seep life.. <i>Nature Communications</i> , 2022 , 13, 638	17.4	1
115	Seasonal nitrogen fluxes of the Lena River Delta.. <i>Ambio</i> , 2022 , 51, 423-438	6.5	5
114	Performance of temperature and productivity proxies based on long-chain alkane-1, mid-chain diols at test: a 5-year sediment trap record from the Mauritanian upwelling. <i>Biogeosciences</i> , 2022 , 19, 1587-1610	4.6	0
113	Organic matter characteristics of a rapidly eroding permafrost cliff in NE Siberia (Lena Delta, Laptev Sea region). <i>Biogeosciences</i> , 2022 , 19, 2079-2094	4.6	0
112	Rapid Atlantification along the Fram Strait at the beginning of the 20th century. <i>Science Advances</i> , 2021 , 7, eabj2946	14.3	3
111	Degrading permafrost river catchments and their impact on Arctic Ocean nearshore processes. <i>Ambio</i> , 2021 , 51, 439	6.5	3
110	Evaluation of lipid biomarkers as proxies for sea ice and ocean temperatures along the Antarctic continental margin. <i>Climate of the Past</i> , 2021 , 17, 2305-2326	3.9	0
109	Permafrost Organic Carbon Turnover and Export Into a High-Arctic Fjord: A Case Study From Svalbard Using Compound-specific 14C Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006008	3.7	4
108	Northeast Siberian Permafrost Ice-Wedge Stable Isotopes Depict Pronounced Last Glacial Maximum Winter Cooling. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092087	4.9	5
107	Standard operation procedures and performance of the MICADAS radiocarbon laboratory at Alfred Wegener Institute (AWI), Germany. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2021 , 496, 45-51 ^{1.2}	1.2	9
106	The nature, timescale, and efficiency of riverine export of terrestrial organic carbon in the (sub)tropics: Insights at the molecular level from the Pearl River and adjacent coastal sea. <i>Earth and Planetary Science Letters</i> , 2021 , 565, 116934	5.3	5
105	Controls on the age of plant waxes in marine sediments A global synthesis. <i>Organic Geochemistry</i> , 2021 , 157, 104259	3.1	1
104	Estimating Bioturbation From Replicated Small-Sample Radiocarbon Ages. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2020PA004142	3.3	5
103	Cluster analysis for time series based on organic geochemical proxies. <i>Organic Geochemistry</i> , 2020 , 145, 104038	3.1	1
102	Particulate Organic Carbon Deconstructed: Molecular and Chemical Composition of Particulate Organic Carbon in the Ocean. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	24
101	Radiocarbon Evidence for the Contribution of the Southern Indian Ocean to the Evolution of Atmospheric CO ₂ Over the Last 32,000 Years. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2019PA003733	3.3	9
100	Late Quaternary glacier and sea-ice history of northern Wijdefjorden, Svalbard. <i>Boreas</i> , 2020 , 49, 417-437	1.4	9

99	Comparison of the U ³⁷ / _K , LDI, TEX ₈₆ , and RI-OH temperature proxies in sediments from the northern shelf of the South China Sea. <i>Biogeosciences</i> , 2020 , 17, 4489-4508	4.6	6
98	Sea ice dynamics in the Bransfield Strait, Antarctic Peninsula, during the past 240 years: a multi-proxy intercomparison study. <i>Climate of the Past</i> , 2020 , 16, 2459-2483	3.9	5
97	The cryostratigraphy of the Yedoma cliff of Sobo-Sise Island (Lena delta) reveals permafrost dynamics in the central Laptev Sea coastal region during the last 52 kyr. <i>Cryosphere</i> , 2020 , 14, 4525-4551	5.5	6
96	Dispersal and aging of terrigenous organic matter in the Pearl River Estuary and the northern South China Sea Shelf. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 282, 324-339	5.5	9
95	Burial and Origin of Permafrost-Derived Carbon in the Nearshore Zone of the Southern Canadian Beaufort Sea. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085897	4.9	15
94	Deglacial to Holocene variability in surface water characteristics and major floods in the Beaufort Sea. <i>Communications Earth & Environment</i> , 2020 , 1,	6.1	4
93	¹⁴ C Blank Assessment in Small-Scale Compound-Specific Radiocarbon Analysis of Lipid Biomarkers and Lignin Phenols. <i>Radiocarbon</i> , 2020 , 62, 207-218	4.6	6
92	Consistently dated Atlantic sediment cores over the last 40 thousand years. <i>Scientific Data</i> , 2019 , 6, 1658.2	8.2	33
91	Past climate and continentality inferred from ice wedges at Batagay megaslump in the Northern Hemisphere's most continental region, Yana Highlands, interior Yakutia. <i>Climate of the Past</i> , 2019 , 15, 1443-1461	3.9	21
90	Permafrost-carbon mobilization in Beringia caused by deglacial meltwater runoff, sea-level rise and warming. <i>Environmental Research Letters</i> , 2019 , 14, 085003	6.2	10
89	Multi-proxy reconstruction of sea surface and subsurface temperatures in the western South Atlantic over the last ~75 kyr. <i>Quaternary Science Reviews</i> , 2019 , 215, 22-34	3.9	5
88	Thermal response of the western tropical Atlantic to slowdown of the Atlantic Meridional Overturning Circulation. <i>Earth and Planetary Science Letters</i> , 2019 , 519, 120-129	5.3	5
87	Highly branched isoprenoids for Southern Ocean sea ice reconstructions: a pilot study from the Western Antarctic Peninsula. <i>Biogeosciences</i> , 2019 , 16, 2961-2981	4.6	9
86	Changes in the Dust-Influenced Biological Carbon Pump in the Canary Current System: Implications From a Coastal and an Offshore Sediment Trap Record Off Cape Blanc, Mauritania. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1100-1128	5.9	9
85	Glycerol dialkyl glycerol tetraethers (GDGTs) in high latitude Siberian permafrost: Diversity, environmental controls, and implications for proxy applications. <i>Organic Geochemistry</i> , 2019 , 136, 103888	3.1	8
84	Seasonality of archaeal lipid flux and GDGT-based thermometry in sinking particles of high-latitude oceans: Fram Strait (79°N) and Antarctic Polar Front (50°S). <i>Biogeosciences</i> , 2019 , 16, 2247-2268	4.6	10
83	Indication of Holocene sea-level stability in the southern Laptev Sea recorded by beach ridges in north-east Siberia, Russia. <i>Polar Research</i> , 2019 , 38,	2	5
82	Branched GDGTs as Proxies in Surface Sediments From the South-Eastern Brazilian Continental Margin. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	5

81	Microbial communities in the nepheloid layers and hypoxic zones of the Canary Current upwelling system. <i>MicrobiologyOpen</i> , 2019 , 8, e00705	3.4	2
80	The roles of climate and human land-use in the late Holocene rainforest crisis of Central Africa. <i>Earth and Planetary Science Letters</i> , 2019 , 505, 30-41	5.3	16
79	Compound-Specific Radiocarbon Measurements 2019 , 235-244		5
78	Increased Amazon freshwater discharge during late Heinrich Stadial 1. <i>Quaternary Science Reviews</i> , 2018 , 181, 144-155	3.9	17
77	TEX86 in sinking particles in three eastern Atlantic upwelling regimes. <i>Organic Geochemistry</i> , 2018 , 124, 151-163	3.1	5
76	On the application of alkenone- and GDGT-based temperature proxies in the south-eastern Brazilian continental margin. <i>Organic Geochemistry</i> , 2018 , 126, 43-56	3.1	6
75	Deglacial mobilization of pre-aged terrestrial carbon from degrading permafrost. <i>Nature Communications</i> , 2018 , 9, 3666	17.4	30
74	Long-chain diols in rivers: distribution and potential biological sources. <i>Biogeosciences</i> , 2018 , 15, 4147-4166	4.6	13
73	A biomarker perspective on dust, productivity, and sea surface temperature in the Pacific sector of the Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 204, 120-139	5.5	13
72	Summer temperature evolution on the Kamchatka Peninsula, Russian Far East, during the past 20 000 years. <i>Climate of the Past</i> , 2017 , 13, 359-377	3.9	13
71	Origin and processing of terrestrial organic carbon in the Amazon system: lignin phenols in river, shelf, and fan sediments. <i>Biogeosciences</i> , 2017 , 14, 2495-2512	4.6	11
70	Southern Hemisphere anticyclonic circulation drives oceanic and climatic conditions in late Holocene southernmost Africa. <i>Climate of the Past</i> , 2017 , 13, 649-665	3.9	21
69	Bathypelagic particle flux signatures from a suboxic eddy in the oligotrophic tropical North Atlantic: production, sedimentation and preservation. <i>Biogeosciences</i> , 2016 , 13, 3203-3223	4.6	8
68	Glacial-to-Holocene evolution of sea surface temperature and surface circulation in the subarctic northwest Pacific and the Western Bering Sea. <i>Paleoceanography</i> , 2016 , 31, 916-927		16
67	Using distributions and stable isotopes of n-alkanes to disentangle organic matter contributions to sediments of Laguna Potrok Aike, Argentina. <i>Organic Geochemistry</i> , 2016 , 102, 110-119	3.1	18
66	Factors influencing ¹⁴ C concentrations of algal and archaeal lipids and their associated sea surface temperature proxies in the Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 188, 35-57	5.5	6
65	Stratification of archaeal membrane lipids in the ocean and implications for adaptation and chemotaxonomy of planktonic archaea. <i>Environmental Microbiology</i> , 2016 , 18, 4324-4336	5.2	38
64	Concentrations and abundance ratios of long-chain alkenones and glycerol dialkyl glycerol tetraethers in sinking particles south of Java. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016 , 112, 14-24	2.5	10

63	Origin, transport and deposition of leaf-wax biomarkers in the Amazon Basin and the adjacent Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 192, 149-165	5.5	29
62	Characterisation of bacterial populations in Arctic permafrost soils using bacteriohopanepolyols. <i>Organic Geochemistry</i> , 2015 , 88, 1-16	3.1	12
61	Timing and structure of Mega-SACZ events during Heinrich Stadial 1. <i>Geophysical Research Letters</i> , 2015 , 42, 5477	4.9	70
60	Characterization of particulate organic matter in the Lena River delta and adjacent nearshore zone, NE Siberia [Part I: Radiocarbon inventories. <i>Biogeosciences</i> , 2015 , 12, 3769-3788	4.6	12
59	Thermal evolution of the western South Atlantic and the adjacent continent during Termination 1. <i>Climate of the Past</i> , 2015 , 11, 915-929	3.9	31
58	Characterization of particulate organic matter in the Lena River delta and adjacent nearshore zone, NE Siberia [Part 2: Lignin-derived phenol compositions. <i>Biogeosciences</i> , 2015 , 12, 2261-2283	4.6	24
57	A four-year record of UK?37- and TEX86-derived sea surface temperature estimates from sinking particles in the filamentous upwelling region off Cape Blanc, Mauritania. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015 , 97, 67-79	2.5	22
56	Distribution of intact and core tetraether lipids in water column profiles of suspended particulate matter off Cape Blanc, NW Africa. <i>Organic Geochemistry</i> , 2014 , 72, 1-13	3.1	48
55	Appraisal of TEX86 and . <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 131, 213-226	5.5	63
54	Holocene sea-surface temperature variability in the Chilean fjord region. <i>Quaternary Research</i> , 2014 , 82, 342-353	1.9	22
53	Evaluation of long chain 1,14-alkyl diols in marine sediments as indicators for upwelling and temperature. <i>Organic Geochemistry</i> , 2014 , 76, 39-47	3.1	37
52	Organic-geochemical proxies of sea surface temperature in surface sediments of the tropical eastern Indian Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 88, 17-29	2.5	24
51	Microbial biomarkers support organic carbon transport from methane-rich Amazon wetlands to the shelf and deep sea fan during recent and glacial climate conditions. <i>Organic Geochemistry</i> , 2014 , 67, 85-98	3.1	22
50	Lipid biomarkers in surface sediments from the Gulf of Genoa, Ligurian sea (NW Mediterranean sea) and their potential for the reconstruction of palaeo-environments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 89, 68-83	2.5	15
49	Miocene to Pliocene changes in South African hydrology and vegetation in relation to the expansion of C4 plants. <i>Earth and Planetary Science Letters</i> , 2013 , 375, 408-417	5.3	47
48	An interlaboratory study of TEX86 and BIT analysis of sediments, extracts, and standard mixtures. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 5263-5285	3.6	62
47	Boundary scavenging at the East Atlantic margin does not negate use of ²³¹ Pa/ ²³⁰ Th to trace Atlantic overturning. <i>Earth and Planetary Science Letters</i> , 2012 , 333-334, 317-331	5.3	28
46	Long chain 1,13- and 1,15-diols as a potential proxy for palaeotemperature reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 84, 204-216	5.5	90

45	Sea surface temperature variability and sea-ice extent in the subarctic northwest Pacific during the past 15,000 years. <i>Paleoceanography</i> , 2012 , 27, n/a-n/a		104
44	Sea surface temperature variability in the Pacific sector of the Southern Ocean over the past 700 kyr. <i>Paleoceanography</i> , 2012 , 27,		45
43	Multi-proxy reconstruction of terrigenous input and sea-surface temperatures in the eastern Gulf of Guinea over the last ~ 35 ka. <i>Marine Geology</i> , 2012 , 319-322, 35-46	3.3	2
42	Millennial-scale sea surface temperature and Patagonian Ice Sheet changes off southernmost Chile (53°S) over the past ~60 kyr. <i>Paleoceanography</i> , 2011 , 26, n/a-n/a		54
41	Miocene to Pliocene development of surface and subsurface temperatures in the Benguela Current system. <i>Paleoceanography</i> , 2011 , 26, n/a-n/a		70
40	Fractionation of ²³⁰ Th, ²³¹ Pa, and ¹⁰ Be induced by particle size and composition within an opal-rich sediment of the Atlantic Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 6971-6987	5.5	38
39	Radiocarbon and ²³⁰ Th data reveal rapid redistribution and temporal changes in sediment focussing at a North Atlantic drift. <i>Earth and Planetary Science Letters</i> , 2011 , 301, 373-381	5.3	14
38	Core top TEX86 values in the south and equatorial Pacific. <i>Organic Geochemistry</i> , 2011 , 42, 94-99	3.1	22
37	Forcing of wet phases in southeast Africa over the past 17,000 years. <i>Nature</i> , 2011 , 480, 509-12	50.4	201
36	Selective preservation of organic matter in marine environments; processes and impact on the sedimentary record. <i>Biogeosciences</i> , 2010 , 7, 483-511	4.6	257
35	Controls on the age of vascular plant biomarkers in Black Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 7031-7047	5.5	83
34	Timescales of lateral sediment transport in the Panama Basin as revealed by radiocarbon ages of alkenones, total organic carbon and foraminifera. <i>Earth and Planetary Science Letters</i> , 2010 , 290, 340-350	5.3	29
33	Grain size effects on ²³⁰ Thxs inventories in opal-rich and carbonate-rich marine sediments. <i>Earth and Planetary Science Letters</i> , 2010 , 294, 131-142	5.3	33
32	Core-top calibration of the lipid-based U37K ² and TEX86 temperature proxies on the southern Italian shelf (SW Adriatic Sea, Gulf of Taranto). <i>Earth and Planetary Science Letters</i> , 2010 , 300, 112-124	5.3	86
31	Distribution of polar membrane lipids in permafrost soils and sediments of a small high Arctic catchment. <i>Organic Geochemistry</i> , 2010 , 41, 1130-1145	3.1	32
30	Orbital- and millennial-scale changes in the hydrologic cycle and vegetation in the western African Sahel: insights from individual plant wax δD and $\delta^{13}C$. <i>Quaternary Science Reviews</i> , 2010 , 29, 2996-3005	3.9	89
29	Decoupling of bio- and geohopanooids in sediments of the Benguela Upwelling System (BUS). <i>Organic Geochemistry</i> , 2010 , 41, 1119-1129	3.1	45
28	Increase in African dust flux at the onset of commercial agriculture in the Sahel region. <i>Nature</i> , 2010 , 466, 226-8	50.4	206

27	Implications for chloro- and pheopigment synthesis and preservation from combined compound-specific $\delta^{13}\text{C}$, $\delta^{15}\text{N}$, and $\delta^{14}\text{C}$ analysis. <i>Biogeosciences</i> , 2010 , 7, 4105-4118	4.6	15
26	Application of self-absorption correction method in gamma spectroscopy for ^{210}Pb and ^{137}Cs sediment chronology on the continental slope off NW Africa. <i>Radioprotection</i> , 2009 , 44, 457-461	1.1	3
25	Palynological evidence for climatic and oceanic variability off NW Africa during the late Holocene. <i>Quaternary Research</i> , 2009 , 72, 188-197	1.9	31
24	Extratropical forcing of Sahel aridity during Heinrich stadials. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	28
23	Compound-specific radiocarbon analysis Analytical challenges and applications. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009 , 5, 012006	0.3	16
22	A radiocarbon-based assessment of the preservation characteristics of crenarchaeol and alkenones from continental margin sediments. <i>Organic Geochemistry</i> , 2008 , 39, 1039-1045	3.1	51
21	Origins of archaeal tetraether lipids in sediments: Insights from radiocarbon analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 4577-4594	5.5	103
20	Aging of marine organic matter during cross-shelf lateral transport in the Benguela upwelling system revealed by compound-specific radiocarbon dating. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	84
19	Diagenetic and sedimentological controls on the composition of organic matter preserved in California Borderland Basin sediments. <i>Limnology and Oceanography</i> , 2007 , 52, 558-576	4.8	68
18	Rapid lateral particle transport in the Argentine Basin: Molecular ^{14}C and ^{230}Th s evidence. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006 , 53, 1224-1243	2.5	40
17	Eastern Pacific cooling and Atlantic overturning circulation during the last deglaciation. <i>Nature</i> , 2006 , 443, 846-9	50.4	125
16	On the sedimentological origin of down-core variations of bulk sedimentary nitrogen isotope ratios. <i>Paleoceanography</i> , 2005 , 20, n/a-n/a		43
15	An evaluation of ^{14}C age relationships between co-occurring foraminifera, alkenones, and total organic carbon in continental margin sediments. <i>Paleoceanography</i> , 2005 , 20, n/a-n/a		86
14	Radiocarbon Dating of Alkenones from Marine Sediments: II. Assessment of Carbon Process Blanks. <i>Radiocarbon</i> , 2005 , 47, 413-424	4.6	15
13	Organic carbon accumulation in the South Atlantic Ocean: its modern, mid-Holocene and last glacial distribution. <i>Global and Planetary Change</i> , 2004 , 40, 249-266	4.2	45
12	Oscillations of the siliceous imprint in the central Benguela Upwelling System from MIS 3 through to the early Holocene: the influence of the Southern Ocean. <i>Journal of Quaternary Science</i> , 2003 , 18, 733-743	2.3	27
11	Asynchronous alkenone and foraminifera records from the Benguela Upwelling System. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 2157-2171	5.5	121
10	Glacial/interglacial variability in the Benguela upwelling system: Spatial distribution and budgets of organic carbon accumulation. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 81-1-81-15	5.9	64

9	MARINE ORGANIC CARBON AND RADIOCARBON PRESENT AND FUTURE CHALLENGES. <i>Radiocarbon</i> , 1-17	4.6	0
8	Characterization of particulate organic matter in the Lena River Delta and adjacent nearshore zone, NE Siberia [Part 1: Lignin-derived phenol compositions		3
7	Characterization of particulate organic matter in the Lena River Delta and adjacent nearshore zone, NE Siberia [Part 2: Radiocarbon inventories		3
6	Bathypelagic particle flux signatures from a suboxic eddy in the oligotrophic tropical North Atlantic: production, sedimentation and preservation		3
5	Selective preservation of organic matter in marine environments [processes and impact on the fossil record		1
4	Implications for chloro- and pheopigment synthesis and preservation from combined compound-specific $\delta^{13}\text{C}$, $\delta^{15}\text{N}$, and $\delta^{14}\text{C}$ analysis		3
3	Middle and Late Pleistocene climate and continentality inferred from ice wedges at Batagay megaslump in the Northern Hemisphere's most continental region, Yana Highlands, interior Yakutia		2
2	Thermal evolution of the western South Atlantic and the adjacent continent during Termination 1		1
1	Glacial to deglacial reservoir ages of surface waters in the southern South Pacific		2