

# Marcus Gutjahr

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

3,365  
citations

185998

28  
h-index

155451

55  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong and deep Atlantic meridional overturning circulation during the last glacial cycle. <i>Nature</i> , 2015, 517, 73-76.	13.7	385
2	Very large release of mostly volcanic carbon during the Palaeocene–Eocene Thermal Maximum. <i>Nature</i> , 2017, 548, 573-577.	13.7	277
3	Reliable extraction of a deepwater trace metal isotope signal from Fe–Mn oxyhydroxide coatings of marine sediments. <i>Chemical Geology</i> , 2007, 242, 351-370.	1.4	214
4	U-Pb geochronologic evidence for the evolution of the Gondwanan margin of the north-central Andes. <i>Bulletin of the Geological Society of America</i> , 2007, 119, 697-711.	1.6	204
5	Evolution of the Late Miocene Mediterranean–Atlantic gateways and their impact on regional and global environmental change. <i>Earth-Science Reviews</i> , 2015, 150, 365-392.	4.0	171
6	Dolomite formation in the dynamic deep biosphere: results from the Peru Margin. <i>Sedimentology</i> , 2007, 54, 1007-1032.	1.6	143
7	Tracing the Nd isotope evolution of North Atlantic Deep and Intermediate Waters in the western North Atlantic since the Last Glacial Maximum from Blake Ridge sediments. <i>Earth and Planetary Science Letters</i> , 2008, 266, 61-77.	1.8	113
8	Deep water provenance and dynamics of the (de)glacial Atlantic meridional overturning circulation. <i>Earth and Planetary Science Letters</i> , 2016, 445, 68-78.	1.8	88
9	Ice sheets matter for the global carbon cycle. <i>Nature Communications</i> , 2019, 10, 3567.	5.8	87
10	Sr- and Nd-isotope geochemistry of the Atlantis Massif (30°N, MAR): Implications for fluid fluxes and lithospheric heterogeneity. <i>Chemical Geology</i> , 2008, 254, 19-35.	1.4	80
11	Permian–Triassic mass extinction pulses driven by major marine carbon cycle perturbations. <i>Nature Geoscience</i> , 2020, 13, 745-750.	5.4	78
12	Extracting foraminiferal seawater Nd isotope signatures from bulk deep sea sediment by chemical leaching. <i>Chemical Geology</i> , 2016, 439, 189-204.	1.4	71
13	Early arrival of Southern Source Water in the deep North Atlantic prior to Heinrich event 2. <i>Paleoceanography</i> , 2011, 26, .	3.0	59
14	Dolomite formation within the methanogenic zone induced by tectonically driven fluids in the Peru accretionary prism. <i>Geology</i> , 2011, 39, 563-566.	2.0	53
15	Neodymium and hafnium boundary contributions to seawater along the West Antarctic continental margin. <i>Earth and Planetary Science Letters</i> , 2014, 394, 99-110.	1.8	52
16	Ocean acidification during the early Toarcian extinction event: Evidence from boron isotopes in brachiopods. <i>Geology</i> , 2020, 48, 1184-1188.	2.0	51
17	Incursions of southern-sourced water into the deep North Atlantic during late Pliocene glacial intensification. <i>Nature Geoscience</i> , 2016, 9, 375-379.	5.4	50
18	The transition on North America from the warm humid Pliocene to the glaciated Quaternary traced by eolian dust deposition at a benchmark North Atlantic Ocean drill site. <i>Quaternary Science Reviews</i> , 2014, 93, 125-141.	1.4	45

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19	Bracketing the Age of Magmatic-Hydrothermal Activity at the Cerro de Pasco Epithermal Polymetallic Deposit, Central Peru: A U-Pb and $^{40}\text{Ar}/^{39}\text{Ar}$ Study. <i>Economic Geology</i> , 2009, 104, 479-504.	1.8	44
20	Constraining the Variability of the Atlantic Meridional Overturning Circulation During the Holocene. <i>Geophysical Research Letters</i> , 2019, 46, 11338-11346.	1.5	43
21	The resilience and sensitivity of Northeast Atlantic deep water $\delta^{15}\text{N}$ to overprinting by detrital fluxes over the past 30,000 years. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 79-97.	1.6	42
22	Persistent Nordic deep-water overflow to the glacial North Atlantic. <i>Geology</i> , 2011, 39, 515-518.	2.0	41
23	Modelling global-scale climate impacts of the late Miocene Messinian Salinity Crisis. <i>Climate of the Past</i> , 2014, 10, 607-622.	1.3	36
24	Sensitivity of modern climate to the presence, strength and salinity of Mediterranean-Atlantic exchange in a global general circulation model. <i>Climate Dynamics</i> , 2014, 42, 859-877.	1.7	35
25	Retreat of the Laurentide ice sheet tracked by the isotopic composition of Pb in western North Atlantic seawater during termination 1. <i>Earth and Planetary Science Letters</i> , 2009, 286, 546-555.	1.8	33
26	Authigenic Pb isotopes from the Laurentian Fan: Changes in chemical weathering and patterns of North American freshwater runoff during the last deglaciation. <i>Earth and Planetary Science Letters</i> , 2010, 299, 458-465.	1.8	33
27	Changes in North Atlantic Deep Water strength and bottom water masses during Marine Isotope Stage 3 (45–35kaBP). <i>Quaternary Science Reviews</i> , 2010, 29, 2451-2461.	1.4	33
28	Sub-Permil Interlaboratory Consistency for Solution-Based Boron Isotope Analyses on Marine Carbonates. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 59-75.	1.7	31
29	Variations of North Atlantic inflow to the central Arctic Ocean over the last 14 million years inferred from hafnium and neodymium isotopes. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 82-92.	1.8	30
30	Shelf-to-basin iron shuttle in the Guaymas Basin, Gulf of California. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 76-92.	1.6	28
31	Experimental evidence for mineral-controlled release of radiogenic Nd, Hf and Pb isotopes from granitic rocks during progressive chemical weathering. <i>Chemical Geology</i> , 2019, 507, 64-84.	1.4	28
32	First Nd isotope record of Mediterranean-Atlantic water exchange through the Moroccan Rifian Corridor during the Messinian Salinity Crisis. <i>Earth and Planetary Science Letters</i> , 2013, 368, 163-174.	1.8	27
33	Transport and transformation of riverine neodymium isotope and rare earth element signatures in high latitude estuaries: A case study from the Laptev Sea. <i>Earth and Planetary Science Letters</i> , 2017, 477, 205-217.	1.8	27
34	Boron isotope systematics of cultured brachiopods: Response to acidification, vital effects and implications for palaeo-pH reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 370-386.	1.6	27
35	Submarine hydrothermal venting related to volcanism in the Lesser Antilles: Evidence from ferromanganese precipitates. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	25
36	Cambrian intra-oceanic arc accretion to the austral Gondwana margin: constraints on the location of proto-New Zealand. <i>Australian Journal of Earth Sciences</i> , 2009, 56, 587-594.	0.4	25

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37	Northern-sourced water dominated the Atlantic Ocean during the Last Glacial Maximum. <i>Geology</i> , 2020, 48, 826-829.	2.0	25
38	Influence of the Amazon River on the Nd isotope composition of deep water in the western equatorial Atlantic during the Oligocene–Miocene transition. <i>Earth and Planetary Science Letters</i> , 2016, 454, 132-141.	1.8	24
39	NIST RM 8301 Boron Isotopes in Marine Carbonate (Simulated Coral and Foraminifera Solutions): Inter-laboratory $^{11}\text{B}$ and Trace Element Ratio Value Assignment. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 77-96.	1.7	24
40	Glacial reduction of AMOC strength and long-term transition in weathering inputs into the Southern Ocean since the mid-Miocene: Evidence from radiogenic Nd and Hf isotopes. <i>Paleoceanography</i> , 2017, 32, 265-283.	3.0	23
41	Early stage weathering systematics of Pb and Nd isotopes derived from a high-Alpine Holocene lake sediment record. <i>Chemical Geology</i> , 2019, 507, 42-53.	1.4	23
42	The parameterisation of Mediterranean–Atlantic water exchange in the Hadley Centre model HadCM3, and its effect on modelled North Atlantic climate. <i>Ocean Modelling</i> , 2013, 62, 11-16.	1.0	22
43	No detectable Weddell Sea Antarctic Bottom Water export during the Last and Penultimate Glacial Maximum. <i>Nature Communications</i> , 2020, 11, 424.	5.8	21
44	Miocene to present oceanographic variability in the Scotia Sea and Antarctic ice sheets dynamics: Insight from revised seismic-stratigraphy following IODP Expedition 382. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116657.	1.8	21
45	Boron during meteoric diagenesis and its potential implications for Marinoan snowball Earth $^{11}\text{B}$ -pH excursions. <i>Geology</i> , 2015, 43, 627-630.	2.0	20
46	Evidence of early bottom water current flow after the Messinian Salinity Crisis in the Gulf of Cadiz. <i>Marine Geology</i> , 2016, 380, 315-329.	0.9	20
47	Origin of Abyssal NW Atlantic Water Masses Since the Last Glacial Maximum. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 530-543.	1.3	20
48	Tracing water mass mixing and continental inputs in the southeastern Atlantic Ocean with dissolved neodymium isotopes. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115944.	1.8	20
49	Peak Last Glacial weathering intensity on the North American continent recorded by the authigenic Hf isotope composition of North Atlantic deep-sea sediments. <i>Quaternary Science Reviews</i> , 2014, 99, 97-111.	1.4	19
50	Influence of Ocean Circulation and Benthic Exchange on Deep Northwest Atlantic Nd Isotope Records During the Past 30,000 Years. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4457-4469.	1.0	18
51	Provenance of Cambrian conglomerates from New Zealand: implications for the tectonomagmatic evolution of the SE Gondwana margin. <i>Journal of the Geological Society</i> , 2006, 163, 997-1010.	0.9	17
52	Geochemical response of the mid-depth Northeast Atlantic Ocean to freshwater input during Heinrich events 1 to 4. <i>Quaternary Science Reviews</i> , 2016, 151, 236-254.	1.4	16
53	Precessional variability of $^{87}\text{Sr}/^{86}\text{Sr}$ in the late Miocene Sorbas Basin: An interdisciplinary study of drivers of interbasin exchange. <i>Paleoceanography</i> , 2017, 32, 531-552.	3.0	16
54	Labrador Sea bottom water provenance and REE exchange during the past 35,000 years. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116299.	1.8	16

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55	The influence of skeletal micro-structures on potential proxy records in a bamboo coral. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 43-60.	1.6	14
56	Influence of Elevated Nd Fluxes on the Northern Nd Isotope End Member of the Atlantic During the Early Holocene. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003973.	1.3	13
57	New Magnetostratigraphic Insights From Iceberg Alley on the Rhythms of Antarctic Climate During the Pliocene-Pleistocene. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003994.	1.3	12
58	Structural limitations in deriving accurate U-series ages from calcitic cold-water corals contrast with robust coral radiocarbon and Mg/Ca systematics. <i>Chemical Geology</i> , 2013, 355, 69-87.	1.4	11
59	Efficient Extraction of Past Seawater Pb and Nd Isotope Signatures From Southern Ocean Sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009287.	1.0	11
60	Antiphased dust deposition and productivity in the Antarctic Zone over 1.5 million years. <i>Nature Communications</i> , 2022, 13, 2044.	5.8	11
61	Water mass gradients of the mid-depth Southwest Atlantic during the past 25,000 years. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115963.	1.8	10
62	Basalt Geochemistry and Mantle Flow During Early Backarc Basin Evolution: Havre Trough and Kermadec Arc, Southwest Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009339.	1.0	10
63	Hikurangi Plateau subduction a trigger for Vitiaz arc splitting and Havre Trough opening (southwestern Pacific). <i>Geology</i> , 2021, 49, 536-540.	2.0	9
64	Neodymium isotopes as a paleo-water mass tracer: A model-data reassessment. <i>Quaternary Science Reviews</i> , 2022, 279, 107404.	1.4	9
65	Ice-sheet driven weathering input and water mass mixing in the Nordic Seas during the last 25,000 years. <i>Earth and Planetary Science Letters</i> , 2019, 514, 108-118.	1.8	8
66	Constraints on the Northwestern Atlantic Deep Water Circulation From <sup>231</sup> Pa/ <sup>230</sup> Th During the Last 30,000 Years. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1945-1958.	1.3	8
67	Expedition 382 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	7
68	Stable Atlantic Deep Water Mass Sourcing on Glacial-Interglacial Timescales. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092722.	1.5	7
69	Incorporation of minor and trace elements into cultured brachiopods: Implications for proxy application with new insights from a biomineralisation model. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 418-440.	1.6	6
70	An experimental investigation of the acquisition of Nd by authigenic phases of marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 301, 1-29.	1.6	6
71	Persistent, multi-sourced lead contamination in Central Europe since the Bronze Age recorded in the FÄ¼ramoos peat bog, Germany. <i>Anthropocene</i> , 2021, 36, 100310.	1.6	5
72	Arctic drainage of Laurentide Ice Sheet meltwater throughout the past 14,700 years. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	5

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73	Laurentide Ice Sheet extent over the last 130 thousand years traced by the Pb isotope signature of weathering inputs to the Labrador Sea. <i>Quaternary Science Reviews</i> , 2022, 287, 107564.	1.4	5
74	Episodes of Early Pleistocene West Antarctic Ice Sheet Retreat Recorded by Iceberg Alley Sediments. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	1.3	5
75	Site U1536. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	4
76	Site U1534. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	3
77	Incorporation of Na and S in bamboo coral skeletons. <i>Chemical Geology</i> , 2022, 597, 120795.	1.4	3
78	Precessional Cyclicity of Seawater Pb Isotopes in the Late Miocene Mediterranean. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 2201-2222.	1.3	2
79	Expedition 382 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
80	Site U1538. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
81	Site U1535. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1
82	Site U1537. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1
83	Response to "Comment on "The transition on North America from the warm humid Pliocene to the glaciated Quaternary traced by eolian dust deposition at a benchmark North Atlantic Ocean drill site"™, by David Lang et al." <i>Quaternary Science Reviews</i> , 2014, 103, 179-183.	1.4	0