Christian MÃ¤rz

List of Publications by Year
in descending order

45 papers	1,344 citations	393982 19 h-index	360668 35 g-index
48 all docs	48 docs citations	48 times ranked	2065 citing authors

#	Article	IF	Citations
1	A new particulate Mnâ€“Feâ€“P-shuttle at the redoxcline of anoxic basins. Geochimica Et Cosmochimica Acta, 2010, 74, 7100-7115.	1.6	215
2	Towards a mechanistic understanding of carbon stabilization in manganese oxides. Nature Communications, 2015, 6, 7628.	5.8	102
3	A continental-weathering control on orbitally driven redox-nutrient cycling during Cretaceous Oceanic Anoxic Event 2. Geology, 2015, 43, 963-966.	2.0	77
4	Mid-Pleistocene climate transition drives net mass loss from rapidly uplifting St. Elias Mountains, Alaska. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15042-15047.	3.3	74
5	Quantifying <scp>K</scp>, <scp>U</scp>, and <scp>T</scp>h contents of marine sediments using shipboard natural gamma radiation spectra measured on <scp>DV</scp><scp><i>JOIDES</i></scp><scp><i>R</i></scp><i>esolution</i>. Geochemistry, Geophysics, Geosystems, 2017, 18, 1053-1064.	1.0	74
6	Diagenetic barium cycling in Black Sea sediments â€“ A case study for anoxic marine environments. Geochimica Et Cosmochimica Acta, 2012, 88, 88-105.	1.6	67
7	Geochemical environment of Cenomanian - Turonian black shale deposition at Wunstorf (northern) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	57
8	Establishment of euxinic conditions in the Holocene Black Sea. Geology, 2013, 41, 431-434.	2.0	56
9	The spread of marine anoxia on the northern Tethys margin during the Paleocene-Eocene Thermal Maximum. Paleoceanography, 2014, 29, 471-488.	3.0	55
10	An Arctic perspective on dating Mid-Late Pleistocene environmental history. Quaternary Science Reviews, 2014, 92, 9-31.	1.4	48
11	Phosphorus dynamics around the sulphate-methane transition in continental margin sediments: Authigenic apatite and Fe(II) phosphates. Marine Geology, 2018, 404, 84-96.	0.9	45
12	Millennial scale persistence of organic carbon bound to iron in Arctic marine sediments. Nature Communications, 2021, 12, 275.	5.8	41
13	The evolution of early diagenetic signals in Bering Sea subseafloor sediments in response to varying organic carbon deposition over the last 4.3Ma. Geochimica Et Cosmochimica Acta, 2013, 109, 175-196.	1.6	37
14	Pyrite oxidation in shales: Implications for palaeo-redox proxies based on geochemical and SEM-EDX evidence. Sedimentary Geology, 2019, 389, 186-199.	1.0	31
15	Development of Iron Speciation Reference Materials for Palaeoredox Analysis. Geostandards and Geoanalytical Research, 2020, 44, 581-591.	1.7	31
16	Late Quaternary paleoenvironmental changes revealed by multi-proxy records from the Chukchi Abyssal Plain, western Arctic Ocean. Global and Planetary Change, 2013, 108, 100-118.	1.6	29
17	Elevated uranium concentrations in Lake Baikal sediments: Burial and early diagenesis. Chemical Geology, 2016, 441, 92-105.	1.4	25
18	Dynamics of Manganese and Cerium Enrichments in Arctic Ocean Sediments: A Case Study From the Alpha Ridge. Frontiers in Earth Science, 2019, 6, .	0.8	23

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19	Repeated enrichment of trace metals and organic carbon on an Eocene high-energy shelf caused by anoxia and reworking. Geology, 2016, 44, 1011-1014.	2.0	19
20	Cordilleran ice-sheet growth fueled primary productivity in the Gulf of Alaska, northeast Pacific Ocean. Geology, 2018, 46, 307-310.	2.0	19
21	Benthic-pelagic coupling in the Barents Sea: an integrated data-model framework. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190359.	1.6	17
22	Experimental evaluation of the extractability of iron bound organic carbon in sediments as a function of carboxyl content. Chemical Geology, 2020, 556, 119853.	1.4	17
23	Does Arctic warming reduce preservation of organic matter in Barents Sea sediments?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190364.	1.6	17
24	Coniacianâ€"Santonian deep ocean anoxia/euxinia inferred from molecular and inorganic markers: Results from the Demerara Rise (ODP Leg 207). Organic Geochemistry, 2008, 39, 1092-1096.	0.9	14
25	Variable Eocene-Miocene sedimentation processes and bottom water redox conditions in the Central Arctic Ocean (IODP Expedition 302). Earth and Planetary Science Letters, 2011, 310, 526-537.	1.8	14
26	Identifying biogenic silica: Mudrock micro-fabric explored through charge contrast imaging. American Mineralogist, 2017, 102, 833-844.	0.9	12
27	The changing Arctic Ocean: consequences for biological communities, biogeochemical processes and ecosystem functioning. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200266.	1.6	11
28	The evolution of early diagenetic processes at the Mozambique margin during the last glacial-interglacial transition. Geochimica Et Cosmochimica Acta, 2021, 300, 79-94.	1.6	11
29	Transformation of organic matter in a Barents Sea sediment profile: coupled geochemical and microbiological processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200223.	1.6	10
30	Technical note: Uncovering the influence of methodological variations on the extractability of iron-bound organic carbon. Biogeosciences, 2021, 18, 3409-3419.	1.3	10
31	Nutrient pathways and their susceptibility to past and future change in the Eurasian Arctic Ocean. Ambio, 2022, 51, 355-369.	2.8	10
32	Dynamic climate-driven controls on the deposition of the Kimmeridge Clay Formation in the Cleveland Basin, Yorkshire, UK. Climate of the Past, 2019, 15, 1581-1601.	1.3	9
33	A multiproxy study distinguishes environmental change from diagenetic alteration in the recent sedimentary record of the inner Cadiz Bay (SW Spain). Holocene, 2016, 26, 1355-1370.	0.9	8
34	Deep Sulfate-Methane-Transition and sediment diagenesis in the Gulf of Alaska (IODP Site U1417). Marine Geology, 2019, 417, 105986.	0.9	8
35	Mineralogical and geochemical analysis of Fe-phases in drill-cores from the Triassic Stuttgart Formation at Ketzin CO2 storage site before CO2 arrival. Environmental Earth Sciences, 2017, 76, 1.	1.3	7
36	Local to global controls on the deposition of organic-rich muds across the Late Jurassic Laurasian Seaway. Journal of the Geological Society, 2019, 176, 1143-1153.	0.9	7

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37	Biogeochemical consequences of a changing Arctic shelf seafloor ecosystem. Ambio, 2022, 51, 370-382.	2.8	7
38	Benthic phosphorus cycling within the Eurasian marginal sea ice zone. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190358.	1.6	6
39	Arctic Continental Margin Sediments as Possible Fe and Mn Sources to Seawater as Sea Ice Retreats: Insights From the Eurasian Margin. Global Biogeochemical Cycles, 2020, 34, e2020GB006581.	1.9	5
40	Are the Kimmeridge Clay deposits affected by â€œburn-downâ€•events? Palynological and geochemical studies on a 1 metre long section from the Upper Kimmeridge Clay Formation (Dorset, UK). Sedimentary Geology, 2009, 222, 301-313.	1.0	4
41	Workflow model for the digitization of mudrocks. Geological Society Special Publication, 2020, 484, 165-187.	0.8	3
42	Sedimentation of the Kimmeridge Clay Formation in the Cleveland Basin (Yorkshire, UK). Minerals (Basel, Switzerland), 2020, 10, 977.	0.8	3
43	The Secret â€˜After Lifeâ€™ of Foraminifera: Big Things Out of Small. Minerals (Basel, Switzerland), 2020, 10, 550.	0.8	3
44	The effect of extraction techniques on calcium concentrations and isotope ratios of marine pore water. Isotopes in Environmental and Health Studies, 2020, 56, 51-68.	0.5	2
45	Anoxic Oceans. , 2015, , 1-6.		0