Natascha Riedinger

List of Publications by Year
in descending order

47 papers	2,375 citations	257450 24 h-index	315739 38 g-index
47 all docs	47 docs citations	47 times ranked	2908 citing authors

#	Article	IF	Citations
1	Exploring deep microbial life in coal-bearing sediment down to ~2.5 km below the ocean floor. Science, 2015, 349, 420-424.	12.6	376
2	Control of sulfate pore-water profiles by sedimentary events and the significance of anaerobic oxidation of methane for the burial of sulfur in marine sediments. Geochimica Et Cosmochimica Acta, 2003, 67, 2631-2647.	3.9	220
3	Global diffusive fluxes of methane in marine sediments. Nature Geoscience, 2018, 11, 421-425.	12.9	192
4	An inorganic geochemical argument for coupled anaerobic oxidation of methane and iron reduction in marine sediments. Geobiology, 2014, 12, 172-181.	2.4	180
5	Diagenetic Alteration of Magnetic Signals by Anaerobic Oxidation of Methane Related to a Change in Sedimentation Rate. Geochimica Et Cosmochimica Acta, 2005, 69, 4117-4126.	3.9	144
6	Nanosomes carrying doxorubicin exhibit potent anticancer activity against human lung cancer cells. Scientific Reports, 2016, 6, 38541.	3.3	137
7	Active and buried authigenic barite fronts in sediments from the Eastern Cape Basin. Earth and Planetary Science Letters, 2006, 241, 876-887.	4.4	114
8	Iron oxide reduction in methane-rich deep Baltic Sea sediments. Geochimica Et Cosmochimica Acta, 2017, 207, 256-276.	3.9	95
9	Iron and manganese speciation and cycling in glacially influenced high-latitude fjord sediments (West) Tj ETQq1 1 0.784314 rgBT /Ov Cosmochimica Acta, 2014, 141, 628-655.	3.9	88
10	Alteration of magnetic mineralogy at the sulfateâ€“methane transition: Analysis of sediments from the Argentine continental slope. Physics of the Earth and Planetary Interiors, 2005, 151, 290-308.	1.9	87
11	Sulfur Cycling in an Iron Oxide-Dominated, Dynamic Marine Depositional System: The Argentine Continental Margin. Frontiers in Earth Science, 2017, 5, .	1.8	70
12	Interactions between deformation and fluids in the frontal thrust region of the NanTroSEIZE transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	65
13	An evaluation of sedimentary molybdenum and iron as proxies for pore fluid paleoredox conditions. Numerische Mathematik, 2018, 318, 527-556.	1.4	63
14	A Holocene history of dynamic water column redox conditions in the Landsort Deep, Baltic Sea. Numerische Mathematik, 2016, 316, 713-745.	1.4	51
15	Phosphorus dynamics around the sulphate-methane transition in continental margin sediments: Authigenic apatite and Fe(II) phosphates. Marine Geology, 2018, 404, 84-96.	2.1	45
16	Characterization of Metabolically Active Bacterial Populations in Subseafloor Nankai Trough Sediments above, within, and below the Sulfateâ€“Methane Transition Zone. Frontiers in Microbiology, 2012, 3, 113.	3.5	39
17	Uranium isotopes as a proxy for primary depositional redox conditions in organic-rich marine systems. Earth and Planetary Science Letters, 2020, 529, 115878.	4.4	39
18	Geochemical evidence for euxinia during the Late Devonian extinction events in the Michigan Basin (U.S.A.). Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 414, 146-154.	2.3	38

#	Article	IF	Citations
19	Evaluating nitrogen isotopes as proxies for depositional environmental conditions in shales: Comparing Caney and Woodford Shales in the Arkoma Basin, Oklahoma. Chemical Geology, 2013, 360-361, 231-240.	3.3	35
20	Microbial Sulfate Reduction Potential in Coal-Bearing Sediments Down to ~2.5 km below the Seafloor off Shimokita Peninsula, Japan. Frontiers in Microbiology, 2016, 7, 1576.	3.5	35
21	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. Geology, 2010, 38, 851-854.	4.4	33
22	Iron-controlled oxidative sulfur cycling recorded in the distribution and isotopic composition of sulfur species in glacially influenced fjord sediments of west Svalbard. Chemical Geology, 2017, 466, 678-695.	3.3	33
23	Estimation of biogeochemical rates from concentration profiles: A novel inverse method. Estuarine, Coastal and Shelf Science, 2012, 100, 26-37.	2.1	32
24	Sedimentary vanadium isotope signatures in low oxygen marine conditions. Geochimica Et Cosmochimica Acta, 2020, 284, 134-155.	3.9	26
25	Methane at the sedimentâ€“water transition in Black Sea sediments. Chemical Geology, 2010, 274, 29-37.	3.3	22
26	Glacial controls on redox-sensitive trace element cycling in Arctic fjord sediments (Spitsbergen,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	3.9	19
27	Rock magnetic and geochemical evidence for authigenic magnetite formation via iron reduction in coalâ€bearing sediments offshore <scp>S</scp>himokita <scp>P</scp>eninsula, <scp>J</scp>apan (IODP) Tj ETQq1 1 0.784314 rgBT /	2.5	12
28	Benthic iron flux influenced by climateâ€sensitive interplay between organic carbon availability and sedimentation rate in Arctic fjords. Limnology and Oceanography, 2021, 66, 3374-3392.	3.1	11
29	A late Mioceneâ€“early Pliocene Antarctic deepwater record of repeated iron reduction events. Marine Geology, 2009, 266, 198-211.	2.1	9
30	Deep subsurface carbon cycling in the <scp>N</scp>ankai <scp>T</scp>rough (Japan)â€"Evidence of tectonically induced stimulation of a deep microbial biosphere. Geochemistry, Geophysics, Geosystems, 2015, 16, 3257-3270.	2.5	9
31	Assessing the application of trace metals as paleoproxies and a chemostratigraphic tool in carbonate systems: A case study from the â€œMississippian Limestoneâ€• of the midcontinent, United States. Marine and Petroleum Geology, 2020, 112, 104061.	3.3	9
32	Interplay of Subduction Tectonics, Sedimentation, and Carbon Cycling. Geochemistry, Geophysics, Geosystems, 2019, 20, 4939-4955.	2.5	7
33	Geochemical signatures of redepositional environments: The Namibian continental margin. Marine Geology, 2020, 429, 106316.	2.1	7
34	Persistent deep water anoxia in the eastern South Atlantic during the last ice age. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
35	Redox conditions on the Anadarko Shelf of Oklahoma during the deposition of the â€œMississippian Limestoneâ€• Marine and Petroleum Geology, 2020, 116, 104345.	3.3	5
36	Pore Water Geochemistry as a Tool for Identifying and Dating Recent Mass-Transport Deposits. , 2012, , 87-97.		5

#	Article	IF	Citations
37	Reconstructing the paleoceanographic and redox conditions responsible for variations in uranium content in North American Devonian black shales. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 587, 110763.	2.3	5
38	Data report: concentration and sulfur isotope composition of iron monosulfide and pyrite from sediment collected during IODP Expedition 316. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	4
39	The Sedimentary Deep Subseafloor Biosphere. , 2016, , 258-274.		3
40	Geochemical Evaluation of Organic Matter Enrichment in the â€œMississippian Limestoneâ€•Interval of the Anadarko Shelf of Oklahoma. Marine and Petroleum Geology, 2022, 135, 105422.	3.3	3
41	Holocene Spatiotemporal Redox Variations in the Southern Baltic Sea. Frontiers in Earth Science, 2021, 9, .	1.8	2
42	Data report: pore water and solid-phase trace element distribution in sediments from IODP Expedition 334 Sites U1378 and U1379. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	0
43	SPATIAL AND TEMPORAL DYNAMICS OF EARLY DIAGENETIC PROCESSES IN GLACIALLY INFLUENCED ARCTIC FJORDS. , 2020, , .		0
44	URANIUM ISOTOPES AS A PROXY FOR PRIMARY DEPOSITIONAL REDOX CONDITIONS IN REDEPOSITED SEDIMENTS OF THE NAMIBIAN CONTINENTAL MARGIN. , 2020, , .		0
45	IMPACT OF PHYSICAL PROPERTIES ON BIOGEOCHEMICAL TRACE METAL CYCLING IN MODERN MARINE SURFACE SEDIMENTS OF THE ARGENTINE BASIN. , 2020, , .		0
46	Data report: solid-phase major and minor elements and iron and sulfur species in sediments of the Anholt Basin, Baltic Sea collected during IODP Expedition 347. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	0
47	Editorial: Geochemical Signals in Dynamic Sedimentary Systems Along Continental Margins. Frontiers in Earth Science, 2022, 10, .	1.8	0