

Bernhard Schnetger

List of Publications by Year in descending order

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119
papers

5,572
citations

71102

41
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91884

69
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120
all docs

120
docs citations

120
times ranked

6958
citing authors

#	ARTICLE	IF	CITATIONS
1	Geochemistry of Peruvian near-surface sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4429-4451.	3.9	326
2	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
3	Biogeochemistry of dissolved organic matter in an anoxic intertidal creek bank. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 418-434.	3.9	218
4	A new particulate Mn-Fe-P-shuttle at the redoxcline of anoxic basins. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7100-7115.	3.9	215
5	Molybdenum isotope fractionation in pelagic euxinia: Evidence from the modern Black and Baltic Seas. <i>Chemical Geology</i> , 2011, 289, 1-11.	3.3	174
6	Determination of nitrate plus nitrite in small volume marine water samples using vanadium(III)chloride as a reduction agent. <i>Marine Chemistry</i> , 2014, 160, 91-98.	2.3	157
7	Determination of halogens, with special reference to iodine, in geological and biological samples using pyrohydrolysis for preparation and inductively coupled plasma mass spectrometry and ion chromatography for measurement. <i>Analyst, The</i> , 1996, 121, 1627.	3.5	139
8	Cycling of trace metals (Mn, Fe, Mo, U, V, Cr) in deep pore waters of intertidal flat sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2822-2840.	3.9	139
9	Solar forcing of Nile discharge and sapropel S1 formation in the early to middle Holocene eastern Mediterranean. <i>Paleoceanography</i> , 2014, 29, 343-356.	3.0	112
10	Geochemical characteristics of deep-sea sediments from the Arabian Sea: a high-resolution study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 2735-2768.	1.4	105
11	Benthic-pelagic coupling of nutrients and dissolved organic matter composition in an intertidal sandy beach. <i>Marine Chemistry</i> , 2015, 176, 150-163.	2.3	102
12	Radium-based pore water fluxes of silica, alkalinity, manganese, DOC, and uranium: A decade of studies in the German Wadden Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6535-6555.	3.9	99
13	Manganese-rich brown layers in Arctic Ocean sediments: Composition, formation mechanisms, and diagenetic overprint. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7668-7687.	3.9	94
14	Microbial hitchhikers on intercontinental dust: catching a lift in Chad. <i>ISME Journal</i> , 2013, 7, 850-867.	9.8	94
15	Non-conservative behaviour of molybdenum in coastal waters: Coupling geochemical, biological, and sedimentological processes. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2745-2761.	3.9	89
16	Late Archean euxinic conditions before the rise of atmospheric oxygen. <i>Geology</i> , 2011, 39, 119-122.	4.4	87
17	Life in Darwin's dust: intercontinental transport and survival of microbes in the nineteenth century. <i>Environmental Microbiology</i> , 2007, 9, 2911-2922.	3.8	80
18	Climatic imprint of the mid-latitude Westerlies in the Central Tian Shan of Kyrgyzstan and teleconnections to North Atlantic climate variability during the last 6000 years. <i>Holocene</i> , 2014, 24, 970-984.	1.7	78

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19	Carbon, nutrient and trace metal cycling in sandy sediments: A comparison of high-energy beaches and backbarrier tidal flats. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 159, 1-14.	2.1	78
20	Trace element signatures of Chilean upwelling sediments at ~36°S. <i>Marine Geology</i> , 2009, 259, 112-121.	2.1	75
21	Quantifying K , U , and T contents of marine sediments using shipboard natural gamma radiation spectra measured on ^{235}U and ^{238}U isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1053-1064.	2.5	74
22	Spatial and seasonal variations of sulphate, dissolved organic carbon, and nutrients in deep pore waters of intertidal flat sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 307-316.	2.1	73
23	Geochemical characteristics of Chilean upwelling sediments at ~36°S. <i>Marine Geology</i> , 2005, 220, 1-21.	2.1	71
24	Porewater exchange as a driver of carbon dynamics across a terrestrial-marine transect: Insights from coupled ^{222}Rn and pCO_2 observations in the German Wadden Sea. <i>Marine Chemistry</i> , 2015, 171, 10-20.	2.3	68
25	Barium as a productivity proxy in continental margin sediments: a study from the eastern Arabian Sea. <i>Marine Geology</i> , 2002, 184, 189-206.	2.1	66
26	Dissolved reactive manganese at pelagic redoxclines (part II): Hydrodynamic conditions for accumulation. <i>Journal of Marine Systems</i> , 2012, 90, 31-41.	2.1	62
27	A Preconcentration/Matrix Reduction Method for the Analysis of Rare Earth Elements in Seawater and Groundwaters by Isotope Dilution ICPMS. <i>Analytical Chemistry</i> , 2003, 75, 3396-3403.	6.5	60
28	Methane in the southern North Sea: Sources, spatial distribution and budgets. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 81, 445-456.	2.1	59
29	Establishment of euxinic conditions in the Holocene Black Sea. <i>Geology</i> , 2013, 41, 431-434.	4.4	56
30	Massive Mn carbonate formation in the Landsort Deep (Baltic Sea): Hydrographic conditions, temporal succession, and Mn budget calculations. <i>Marine Geology</i> , 2018, 395, 260-270.	2.1	56
31	A geochemical record of late Holocene palaeoenvironmental changes at King George Island (maritime) Tj ETQq1 1 0,784314 mg BT / Over	0,9	55
32	Hawaiian imprint on dissolved Nd and Ra isotopes and rare earth elements in the central North Pacific: Local survey and seasonal variability. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 110-131.	3.9	53
33	Past penguin colony responses to explosive volcanism on the Antarctic Peninsula. <i>Nature Communications</i> , 2017, 8, 14914.	12.8	53
34	Dissimilar behaviors of the geochemical twins W and Mo in hypoxic-euxinic marine basins. <i>Earth-Science Reviews</i> , 2019, 193, 1-23.	9.1	53
35	Distribution of organic carbon in surface sediments along the eastern Arabian Sea: a revisit. <i>Marine Geology</i> , 1999, 162, 91-103.	2.1	52
36	Consistent assessment of trace metal contamination in surface sediments and suspended particulate matter: A case study from the Jade Bay in NW Germany. <i>Marine Pollution Bulletin</i> , 2013, 70, 100-111.	5.0	52

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37	Meltwater as a source of potentially bioavailable iron to Antarctica waters. <i>Antarctic Science</i> , 2017, 29, 277-291.	0.9	50
38	Anaerobic sulfur oxidation in the absence of nitrate dominates microbial chemoautotrophy beneath the pelagic chemocline of the eastern Gotland Basin, Baltic Sea. <i>FEMS Microbiology Ecology</i> , 2010, 71, 226-236.	2.7	45
39	Are Iron-Phosphate Minerals a Sink for Phosphorus in Anoxic Black Sea Sediments?. <i>PLoS ONE</i> , 2014, 9, e101139.	2.5	45
40	Dissolved iron exports from an estuary surrounded by coastal wetlands: Can small estuaries be a significant source of Fe to the ocean?. <i>Marine Chemistry</i> , 2015, 176, 75-82.	2.3	44
41	Rates of trace metal and nutrient diagenesis in an intertidal creek bank. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 134-147.	3.9	43
42	Underestimation of the authigenic fraction of Cu and Ni in organic-rich sediments. <i>Marine Geology</i> , 2012, 323-325, 24-28.	2.1	43
43	Manganese and iron release from mangrove porewaters: A significant component of oceanic budgets?. <i>Marine Chemistry</i> , 2016, 184, 43-52.	2.3	42
44	Cycling of redox-sensitive elements in a sandy subterranean estuary of the southern North Sea. <i>Marine Chemistry</i> , 2017, 188, 6-17.	2.3	42
45	Sources and processes affecting the distribution of dissolved Nd isotopes and concentrations in the West Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 508-534.	3.9	42
46	Spatial and Temporal Patterns of Pore Water Chemistry in the Inter-Tidal Zone of a High Energy Beach. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	41
47	A novel time-series station in the Wadden Sea (NW Germany): First results on continuous nutrient and methane measurements. <i>Marine Chemistry</i> , 2007, 107, 411-421.	2.3	40
48	Microbial hitchhikers on intercontinental dust: high-throughput sequencing to catalogue microbes in small sand samples. <i>Aerobiologia</i> , 2013, 29, 71-84.	1.7	40
49	Phosphorus burial and diagenesis in the central Bering Sea (Bowers Ridge, IODP Site U1341): Perspectives on the marine P cycle. <i>Chemical Geology</i> , 2014, 363, 270-282.	3.3	40
50	Redox conditions and trace metal cycling in coastal sediments from the maritime Antarctic. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 26-44.	3.9	40
51	Sulphate, dissolved organic carbon, nutrients and terminal metabolic products in deep pore waters of an intertidal flat. <i>Biogeochemistry</i> , 2008, 89, 221-238.	3.5	38
52	Characterization of ikaite (CaCO ₃ ·6H ₂ O) crystals in first-year Arctic sea ice north of Svalbard. <i>Annals of Glaciology</i> , 2013, 54, 125-131.	1.4	38
53	In situ pore water sampling in deep intertidal flat sediments. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 136-144.	2.0	37
54	DSi as a Tracer for Submarine Groundwater Discharge. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	37

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55	Geochemistry of sediments from the connection between the western and the eastern Mediterranean Sea (Strait of Sicily, ODP Site 963). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 190, 165-194.	2.3	36
56	Stable sulfur isotopes indicate net sulfate reduction in near-surface sediments of the deep Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 2769-2783.	1.4	34
57	Sea-surface temperature variability in the 16th century at Bermuda inferred from coral records. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2002, 179, 159-171.	2.3	34
58	Meltwater events and the Mediterranean reconnection at the Saalian–Eemian transition in the Black Sea. <i>Earth and Planetary Science Letters</i> , 2014, 404, 124-135.	4.4	34
59	Silica diagenesis and benthic fluxes in the Arctic Ocean. <i>Marine Chemistry</i> , 2015, 171, 1-9.	2.3	34
60	The Biogeographical Distribution of Benthic Roseobacter Group Members along a Pacific Transect Is Structured by Nutrient Availability within the Sediments and Primary Production in Different Oceanic Provinces. <i>Frontiers in Microbiology</i> , 2017, 8, 2550.	3.5	34
61	Sulfurization of dissolved organic matter in the anoxic water column of the Black Sea. <i>Science Advances</i> , 2021, 7, .	10.3	34
62	Trace metal geochemistry of organic carbon-rich watercourses draining the NW German coast. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 104-105, 66-79.	2.1	33
63	Rapid and precise analysis of rare earth elements in small volumes of seawater - Method and intercomparison. <i>Marine Chemistry</i> , 2016, 186, 110-120.	2.3	32
64	Redox evolution during Eemian and Holocene sapropel formation in the Black Sea. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 489, 249-260.	2.3	32
65	Nutrient leakage from the North Pacific to the Bering Sea (IODP Site U1341) following the onset of Northern Hemispheric Glaciation?. <i>Paleoceanography</i> , 2013, 28, 68-78.	3.0	31
66	Impact of the Major Baltic Inflow in 2014 on Manganese Cycling in the Gotland Deep (Baltic Sea). <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	31
67	Development of Iron Speciation Reference Materials for Palaeoredox Analysis. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 581-591.	3.1	31
68	Crystal structure of synthetic Al ₄ B ₂ O ₉ : A member of the mullite family closely related to boralsilite. <i>American Mineralogist</i> , 2008, 93, 918-927.	1.9	30
69	Iodine (and Other Halogens) in Twenty Six Geological Reference Materials by ICP-MS and Ion Chromatography. <i>Geostandards and Geoanalytical Research</i> , 1998, 22, 181-186.	3.1	29
70	Dissolved reactive manganese at pelagic redoxclines (part I): A method for determination based on field experiments. <i>Journal of Marine Systems</i> , 2012, 90, 23-30.	2.1	26
71	Paleoenvironmental implications of Cenozoic sediments from the central Arctic Ocean (IODP Tj ETQq1 1 0.784314.rgBT /Overlock 10T	3.9	25
72	Diagenetic regimes in Arctic Ocean sediments: Implications for sediment geochemistry and core correlation. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 125-146.	3.9	24

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73	Rare earth element distributions in the West Pacific: Trace element sources and conservative vs. non-conservative behavior. <i>Earth and Planetary Science Letters</i> , 2018, 486, 166-177.	4.4	23
74	Paleoenvironmental change in a precession-paced succession across the onset of the Messinian salinity crisis: Insight from element geochemistry and molecular fossils. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 518, 45-61.	2.3	23
75	Early Cretaceous subsidence of the Naturaliste Plateau defined by a new record of volcanoclastic-rich sequence at IODP Site U1513. <i>Gondwana Research</i> , 2020, 82, 1-11.	6.0	23
76	Seasonality of Organic Matter Degradation Regulates Nutrient and Metal Net Fluxes in a High Energy Sandy Beach. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005399.	3.0	23
77	Non-conservative Behavior of Dissolved Organic Matter and Trace Metals (Mn, Fe, Ba) Driven by Porewater Exchange in a Subtropical Mangrove-Estuary. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	22
78	Evolution of the Southwest Australian Rifted Continental Margin During Breakup of East Gondwana: Results From International Ocean Discovery Program Expedition 369. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009144.	2.5	22
79	Rapid and accurate determination of Thallium in seawater using SF-ICP-MS. <i>Talanta</i> , 2011, 85, 1695-1697.	5.5	20
80	Repeated enrichment of trace metals and organic carbon on an Eocene high-energy shelf caused by anoxia and reworking. <i>Geology</i> , 2016, 44, 1011-1014.	4.4	19
81	Inorganic and organic iron and copper species of the subterranean estuary: Origins and fate. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 211-232.	3.9	19
82	A fast method for the simultaneous determination of ²³⁰ Th, ²³⁴ U and ²³⁵ U with isotope dilution sector field ICP-MS. <i>Analyst</i> , 1999, 124, 927-932.	3.5	18
83	Carbon capture via accelerated weathering of limestone: Modeling local impacts on the carbonate chemistry of the southern North Sea. <i>International Journal of Greenhouse Gas Control</i> , 2020, 92, 102855.	4.6	18
84	Fraction distribution and risk assessment of heavy metals in waste clay sediment discharged through the phosphate beneficiation process in Jordan. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 401.	2.7	17
85	Climatic and hydrologic variability in the northern Mediterranean across the onset of the Messinian salinity crisis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 545, 109632.	2.3	17
86	Climate change and response in bottom water circulation and sediment provenance in the Central Arctic Ocean since the Last Glacial. <i>Chemical Geology</i> , 2016, 427, 98-108.	3.3	16
87	Thallium dynamics in the southern North Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 143-155.	3.9	16
88	Reconstructing oxygen deficiency in the glacial Gulf of Alaska: Combining biomarkers and trace metals as paleo-redox proxies. <i>Chemical Geology</i> , 2020, 558, 119864.	3.3	15
89	Rare Earth Element Behavior in a Sandy Subterranean Estuary of the Southern North Sea. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	15
90	Variable Eocene-Miocene sedimentation processes and bottom water redox conditions in the Central Arctic Ocean (IODP Expedition 302). <i>Earth and Planetary Science Letters</i> , 2011, 310, 526-537.	4.4	14

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91	A high resolution study of NE Atlantic sediments at station Bengal: geochemistry and early diagenesis of Heinrich layers. <i>Marine Geology</i> , 2001, 177, 79-92.	2.1	13
92	Suitability assessment of phosphate mine waste water for agricultural irrigation: an example from Eshidiya Mines, South Jordan. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	12
93	Antibiotic-induced effects on scaling relationships and on plant element contents in herbs and grasses. <i>Ecology and Evolution</i> , 2018, 8, 6699-6713.	1.9	12
94	Sedimentary iron cycling in the Benguela upwelling system off Namibia. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116212.	4.4	12
95	Biogeochemical cycling of molybdenum and thallium during a phytoplankton summer bloom: A mesocosm study. <i>Marine Chemistry</i> , 2021, 229, 103910.	2.3	12
96	Petrophysical Property Modifications by Alteration in a Volcanic Sequence at IODP Site U1513, Naturaliste Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021061.	3.4	11
97	Niche differentiation of sulfur-oxidizing bacteria (SUP05) in submarine hydrothermal plumes. <i>ISME Journal</i> , 2022, 16, 1479-1490.	9.8	11
98	Thallium dynamics in the Weser estuary (NW Germany). <i>Estuarine, Coastal and Shelf Science</i> , 2017, 187, 146-151.	2.1	10
99	Heavy metal contamination and health risk assessment in waste mine water dewatering using phosphate beneficiation processes in Jordan. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	10
100	Near-field hydrothermal plume dynamics at Brothers Volcano (Kermadec Arc): A short-lived radium isotope study. <i>Chemical Geology</i> , 2020, 533, 119379.	3.3	10
101	Reducing CO ₂ Emissions of a Coal-Fired Power Plant via Accelerated Weathering of Limestone: Carbon Capture Efficiency and Environmental Safety. <i>Environmental Science & Technology</i> , 2020, 54, 4528-4535.	10.0	10
102	Microstructure Degradation of LSM/YSZ Cathodes for Solid Oxide Fuel Cells Aged in Stack after Long Operation Time. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1385-F1391.	2.9	9
103	Tracking Late Cretaceous environmental change: Geochemical environment of the upper Campanian to lower Maastrichtian chalks at Krons Moor, northern Germany. <i>Cretaceous Research</i> , 2018, 84, 323-339.	1.4	9
104	Dynamic climate-driven controls on the deposition of the Kimmeridge Clay Formation in the Cleveland Basin, Yorkshire, UK. <i>Climate of the Past</i> , 2019, 15, 1581-1601.	3.4	9
105	Submarine Hydrothermal Discharge and Fluxes of Dissolved Fe and Mn, and He Isotopes at Brothers Volcano Based on Radium Isotopes. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 969.	2.0	9
106	Thallium cycling in pore waters of intertidal beach sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 321-339.	3.9	9
107	Direct Measurement of the Content and Isotopic Composition of Sulfur in Black Shales by Means of Combustion-Isotope-Ratio-Monitoring Mass Spectrometry (C-irmMS). , 2004, , 597-603.		9
108	Deep Sulfate-Methane-Transition and sediment diagenesis in the Gulf of Alaska (IODP Site U1417). <i>Marine Geology</i> , 2019, 417, 105986.	2.1	8

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109	Historical anthropogenic heavy metal input to the south-eastern North Sea. <i>Geo-Marine Letters</i> , 2020, 40, 135-148.	1.1	8
110	Major and trace element characterization of Oceanic Anoxic Event 1d (OAE 1d): Insight from the Umbria-Marche Basin, central Italy. <i>Chemical Geology</i> , 2020, 557, 119834.	3.3	8
111	Trace Metal Dynamics in Shallow Hydrothermal Plumes at the Kermadec Arc. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	8
112	Local to global controls on the deposition of organic-rich muds across the Late Jurassic Laurasian Seaway. <i>Journal of the Geological Society</i> , 2019, 176, 1143-1153.	2.1	7
113	Manganese dynamics in tidal basins of the Wadden Sea: Spatial/seasonal patterns and budget estimates. <i>Marine Chemistry</i> , 2020, 225, 103847.	2.3	6
114	Arctic Continental Margin Sediments as Possible Fe and Mn Sources to Seawater as Sea Ice Retreats: Insights From the Eurasian Margin. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006581.	4.9	5
115	Biogeochemical thallium cycling during a mesocosm phytoplankton spring bloom: Biotic versus abiotic drivers. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 313, 257-276.	3.9	5
116	Uranium export from a sandy beach subterranean estuary in Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 198, 204-212.	2.1	4
117	Data report: wavelength-dispersive X-ray fluorescenceâ€‘based geochemical data, Site U1418, IODP Expedition 341, Gulf of Alaska. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	2
118	Identifying Appropriate Locations for the Accelerated Weathering of Limestone to Reduce CO2 Emissions. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1261.	2.0	2
119	Large Scale Climate Teleconnections Driving Marine Black Shale Formation Across the Jurassic Boreal Seaway (KFC): A Geochemistry-Modelling Perspective. , 2019, , .		0