Michael E BÃ¶ttcher

List of Publications by Year
in descending order

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163 papers	9,428 citations	38720 50 h-index	43868 91 g-index
202 all docs	202 docs citations	202 times ranked	7954 citing authors

#	Article	IF	Citations
1	Photic Zone Euxinia During the Permian-Triassic Superanoxic Event. Science, 2005, 307, 706-709.	6.0	721
2	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	1.2	474
3	Anaerobic methane oxidation and a deep H2S sink generate isotopically heavy sulfides in Black Sea sediments. Geochimica Et Cosmochimica Acta, 2004, 68, 2095-2118.	1.6	341
4	Geochemistry of Peruvian near-surface sediments. Geochimica Et Cosmochimica Acta, 2004, 68, 4429-4451.	1.6	326
5	Hypersulfidic deep biosphere indicates extreme sulfur isotope fractionation during single-step microbial sulfate reduction. Geology, 2001, 29, 647.	2.0	257
6	Sulfidity controls molybdenum isotope fractionation into euxinic sediments: Evidence from the modern Black Sea. Geology, 2008, 36, 775.	2.0	252
7	Oxygen and sulfur isotope fractionation during anaerobic bacterial disproportionation of elemental sulfur. Geochimica Et Cosmochimica Acta, 2001, 65, 1601-1609.	1.6	225
8	A new particulate Mnâ€“Feâ€“P-shuttle at the redoxcline of anoxic basins. Geochimica Et Cosmochimica Acta, 2010, 74, 7100-7115.	1.6	215
9	Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-RÃ¸mÃ¸ Basin, Wadden Sea. Limnology and Oceanography, 2005, 50, 113-127.	1.6	188
10	Molybdenum isotope fractionation in pelagic euxinia: Evidence from the modern Black and Baltic Seas. Chemical Geology, 2011, 289, 1-11.	1.4	174
11	Paleo-redox conditions during OAE 2 reflected in Demerara Rise sediment geochemistry (ODP Leg 207). Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 273, 302-328.	1.0	172
12	Sulphidic Mediterranean surface waters during Pliocene sapropel formation. Nature, 1999, 397, 146-149.	13.7	167
13	Pyritization processes and greigite formation in the advancing sulfidization front in the upper Pleistocene sediments of the Black Sea. Geochimica Et Cosmochimica Acta, 2004, 68, 2081-2093.	1.6	149
14	Mo isotope and trace element patterns of Lower Cambrian black shales in South China: Multi-proxy constraints on the paleoenvironment. Chemical Geology, 2012, 318-319, 45-59.	1.4	146
15	Uranium and molybdenum isotope systematics in modern euxinic basins: Case studies from the central Baltic Sea and the Kyllaren fjord (Norway). Chemical Geology, 2015, 396, 182-195.	1.4	131
16	Anaerobic sulfide oxidation and stable isotope fractionation associated with bacterial sulfur disproportionation in the presence of MnO2. Geochimica Et Cosmochimica Acta, 2001, 65, 1573-1581.	1.6	128
17	A combined pathway of sulfur compound disproportionation inDesulfovibrio desulfuricans. FEMS Microbiology Letters, 1998, 166, 181-186.	0.7	127
18	Diversity and vertical distribution of magnetotactic bacteria along chemical gradients in freshwater microcosms. FEMS Microbiology Ecology, 2005, 52, 185-195.	1.3	127

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19	Oxygen isotope biogeochemistry of pore water sulfate in the deep biosphere: Dominance of isotope exchange reactions with ambient water during microbial sulfate reduction (ODP Site 1130). Geochimica Et Cosmochimica Acta, 2007, 71, 4221-4232.	1.6	121
20	Sulfur isotope partitioning during experimental formation of pyrite via the polysulfide and hydrogen sulfide pathways: implications for the interpretation of sedimentary and hydrothermal pyrite isotope records. Earth and Planetary Science Letters, 2004, 228, 495-509.	1.8	119
21	Barium isotope fractionation in the global barium cycle: First evidence from barium minerals and precipitation experiments. Chemical Geology, 2010, 277, 70-77.	1.4	118
22	Microbiologically induced concrete corrosion: A case study from a combined sewer network. Cement and Concrete Research, 2015, 77, 16-25.	4.6	118
23	Sulfate reduction related to the early diagenetic degradation of organic matter and â€œblack spotâ€• formation in tidal sandflats of the German Wadden Sea (southern North Sea): stable isotope (13C, 34S,) Tj ETQq1 1 0.784314 rgBT /Ov		115
24	Community structure and activity of sulfate-reducing bacteria in an intertidal surface sediment: a multi-method approach. Aquatic Microbial Ecology, 2002, 29, 211-226.	0.9	111
25	An integrated biomarker, isotopic and palaeoenvironmental study through the Late Permian event at Lusitaniadalen, Spitsbergen. Earth and Planetary Science Letters, 2010, 291, 84-96.	1.8	109
26	The biogeochemistry, stable isotope geochemistry, and microbial community structure of a temperate intertidal mudflat: an integrated study. Continental Shelf Research, 2000, 20, 1749-1769.	0.9	106
27	Sulfur and iron speciation in surface sediments along the northwestern margin of the Black Sea. Marine Chemistry, 2001, 74, 261-278.	0.9	102
28	Pyrite contents, microtextures, and sulfur isotopes in relation to formation of the youngest eastern Mediterranean sapropel. Geology, 1997, 25, 519.	2.0	101
29	Sulfur isotope fractionation during experimental precipitation of iron(II) and manganese(II) sulfide at room temperature. Chemical Geology, 1998, 146, 127-134.	1.4	98
30	A sulfur budget for the Black Sea anoxic zone. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 2569-2593.	0.6	95
31	Iron oxide reduction in methane-rich deep Baltic Sea sediments. Geochimica Et Cosmochimica Acta, 2017, 207, 256-276.	1.6	95
32	Modes of sapropel formation in the eastern Mediterranean: some constraints based on pyrite properties. Marine Geology, 1999, 153, 199-219.	0.9	92
33	Elevated pCO2 leading to Late Triassic extinction, persistent photic zone euxinia, and rising sea levels. Geology, 2013, 41, 955-958.	2.0	91
34	Biogeochemistry of sulfur in a sediment core from the west-central Baltic Sea: Evidence from stable isotopes and pyrite textures. Journal of Marine Systems, 2000, 25, 299-312.	0.9	88
35	34S/32S and18O/16O Fractionation During Sulfur Disproportionation byDesulfobulbus propionicus. Geomicrobiology Journal, 2005, 22, 219-226.	1.0	84
36	Trace metals in Holocene coastal peats and their relation to pyrite formation (NW Germany). Chemical Geology, 2002, 182, 423-442.	1.4	75

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37	GEOCHEMICAL CHARACTERIZATION OF CENOMANIAN/TURONIAN BLACK SHALES FROM THE TARFAYA BASIN (SW MOROCCO). RELATIONSHIPS BETWEEN PALAEOENVIRONMENTAL CONDITIONS AND EARLY SULPHURIZATION OF SEDIMENTARY ORGANIC MATTER1. Journal of Petroleum Geology, 2002, 25, 325-350.	0.9	75
38	A mesocosm concept for the simulation of near-natural shallow underwater climates: The Kiel Outdoor Benthocosms (KOB). Limnology and Oceanography: Methods, 2015, 13, 651-663.	1.0	75
39	Isotopic and microbiological signatures of pyrite-driven denitrification in a sandy aquifer. Chemical Geology, 2012, 300-301, 123-132.	1.4	74
40	Characterization of inorganic and biogenic magnesian calcites by Fourier Transform infrared spectroscopy. Solid State Ionics, 1997, 101-103, 1379-1385.	1.3	73
41	Biogeochemistry of sulfur and iron in Thioploca-colonized surface sediments in the upwelling area off central chile. Geochimica Et Cosmochimica Acta, 2008, 72, 827-843.	1.6	73
42	Seasonal dynamics of microbial sulfate reduction in temperate intertidal surface sediments: controls by temperature and organic matter. Ocean Dynamics, 2009, 59, 351-370.	0.9	73
43	Functioning of intertidal flats inferred from temporal and spatial dynamics of O2, H2S and pH in their surface sediment. Ocean Dynamics, 2009, 59, 317-332.	0.9	70
44	Manganese(II) partitioning during experimental precipitation of rhodochrositeâ€“calcite solid solutions from aqueous solutions. Marine Chemistry, 1998, 62, 287-297.	0.9	67
45	Multi-isotope approach for the identification and characterisation of nitrate pollution sources in the Marano lagoon (Italy) and parts of its catchment area. Applied Geochemistry, 2013, 34, 75-89.	1.4	57
46	First occurrence and stable isotope composition of authigenic Î³-MnS in the central Gotland Deep (Baltic Sea). Marine Geology, 1997, 137, 201-205.	0.9	54
47	Intense pyrite formation under low-sulfate conditions in the Achterwasser lagoon, SW Baltic Sea. Geochimica Et Cosmochimica Acta, 2005, 69, 3619-3630.	1.6	54
48	A comparative study of manganese dynamics in the water column and sediments of intertidal systems of the North Sea. Estuarine, Coastal and Shelf Science, 2012, 100, 3-17.	0.9	54
49	Title is missing!. , 2013, 9, 96.		54
50	Sulfur isotope geochemistry of the Black Sea water column. Chemical Geology, 2003, 200, 59-69.	1.4	52
51	Changes of palaeoenvironmental conditions recorded in Late Devonian reef systems from the Canning Basin, Western Australia: A biomarker and stable isotope approach. Gondwana Research, 2015, 28, 1500-1515.	3.0	52
52	Trace metal dynamics in the water column and pore waters in a temperate tidal system: response to the fate of algae-derived organic matter. Ocean Dynamics, 2009, 59, 333-350.	0.9	51
53	¹⁸O/¹⁶O and¹³C/¹²C Fractionation During the Reaction of Carbonates with Phosphoric Acid: Effects of Cationic Substitution and Reaction Temperature. Isotopes in Environmental and Health Studies, 1996, 32, 299-305.	0.5	48
54	Molecular proxies as indicators of freshwater incursion-driven salinity stratification. Chemical Geology, 2015, 409, 61-68.	1.4	48

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55	Tidal and spatial variations of DI13C and aquatic chemistry in a temperate tidal basin during winter time. Journal of Marine Systems, 2014, 129, 396-404.	0.9	47
56	Pelagic molybdenum concentration anomalies and the impact of sediment resuspension on the molybdenum budget in two tidal systems of the North Sea. Geochimica Et Cosmochimica Acta, 2013, 119, 198-211.	1.6	44
57	Constraints on barium isotope fractionation during aragonite precipitation by corals. Depositional Record, 2015, 1, 118-129.	0.8	44
58	Fractionation of sulfur isotopes during dissimilatory reduction of sulfate by a thermophilic gram-negative bacterium at 60 Â°C. Archives of Microbiology, 1999, 172, 125-128.	1.0	42
59	Barium isotope fractionation during experimental formation of the double carbonate BaMn[CO₃]₂at ambient temperature. Isotopes in Environmental and Health Studies, 2012, 48, 457-463.	0.5	42
60	Submarine groundwater discharge to the Baltic coastal zone: Impacts on the meiofaunal community. Journal of Marine Systems, 2014, 129, 118-126.	0.9	42
61	Bacterial communities potentially involved in iron-cycling in Baltic Sea and North Sea sediments revealed by pyrosequencing. FEMS Microbiology Ecology, 2016, 92, fiw054.	1.3	42
62	Cycling of redox-sensitive elements in a sandy subterranean estuary of the southern North Sea. Marine Chemistry, 2017, 188, 6-17.	0.9	42
63	Recovery from black spots: results of a loading experiment in the Wadden Sea. Journal of Sea Research, 1998, 40, 205-219.	0.6	41
64	Coastal progradation and very early diagenesis of ultramafic sands as a result of rubble discharge from asbestos excavations (northern Corsica, western Mediterranean). Marine Geology, 1997, 144, 163-175.	0.9	40
65	Trace-element and multi-isotope geochemistry of Late-Archean black shales in the CarajÃ¡s iron-ore district, Brazil. Chemical Geology, 2013, 362, 91-104.	1.4	40
66	Microbial life in the nascent Chicxulub crater. Geology, 2020, 48, 328-332.	2.0	40
67	Fractionation of sulfur isotopes during thiosulfate reduction by Desulfovibrio desulfuricans. Archives of Microbiology, 1998, 169, 460-463.	1.0	39
68	Hydrochemical evolution of a freshwater lens below a barrier island (Spiekeroog, Germany): The role of carbonate mineral reactions, cation exchange and redox processes. Applied Geochemistry, 2018, 92, 196-208.	1.4	38
69	Predominance of methanogens over methanotrophs in rewetted fens characterized by high methane emissions. Biogeosciences, 2018, 15, 6519-6536.	1.3	38
70	Title is missing!. Aquatic Geochemistry, 1999, 5, 99-118.	1.5	37
71	Microbial sulfate reduction in deep sediments of the Southwest Pacific (ODP Leg 181, Sites 1119â€“1125): evidence from stable sulfur isotope fractionation and pore water modeling. Marine Geology, 2004, 205, 249-260.	0.9	35
72	Significance of Î´Dkerogen, Î´13Ckerogen and Î´34Spyrite from several Permian/Triassic (P/Tr) sections. Earth and Planetary Science Letters, 2010, 295, 21-29.	1.8	35

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73	Multiple sulfur isotopic evidence for the origin of elemental sulfur in an iron-dominated gas hydrate-bearing sedimentary environment. Marine Geology, 2018, 403, 271-284.	0.9	35
74	Factors controlling the carbon isotope composition of dissolved inorganic carbon and methane in marine porewater: An evaluation by reaction-transport modelling. Journal of Marine Systems, 2019, 200, 103227.	0.9	35
75	Stable sulfur isotopes indicate net sulfate reduction in near-surface sediments of the deep Arabian Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 2769-2783.	0.6	34
76	The Role of a Transcrustal Shear Zone in Orogenic Gold Mineralization at the Ajjanahalli Mine, Dharwar Craton, South India. Economic Geology, 2004, 99, 743-759.	1.8	34
77	Earthquake-induced structural deformations enhance long-term solute fluxes from active volcanic systems. Scientific Reports, 2018, 8, 14809.	1.6	33
78	Calcification-driven CO ‹sub›2‹/sub› emissions exceed â€œBlue Carbonâ€•sequestration in a carbonate seagrass meadow. Science Advances, 2021, 7, eabj1372.	4.7	33
79	Molecular and isotopic characterization of organic matter in recent and sub-recent sediments from the Dead Sea. Organic Geochemistry, 2000, 31, 251-265.	0.9	32
80	Estimation of biogeochemical rates from concentration profiles: A novel inverse method. Estuarine, Coastal and Shelf Science, 2012, 100, 26-37.	0.9	32
81	Geomicrobiological and geochemical investigation of a pyrrhotite-containing mine waste tailings dam near Selebi-Phikwe in Botswana. Journal of Geochemical Exploration, 2007, 92, 151-158.	1.5	30
82	Nitrogen Metabolism Genes from Temperate Marine Sediments. Marine Biotechnology, 2017, 19, 175-190.	1.1	30
83	Understanding the Coastal Ecocline: Assessing Seaâ€“Land Interactions at Non-tidal, Low-Lying Coasts Through Interdisciplinary Research. Frontiers in Marine Science, 2018, 5, .	1.2	30
84	Carbon sources in the North Sea evaluated by means of radium and stable carbon isotope tracers. Limnology and Oceanography, 2016, 61, 666-683.	1.6	29
85	Sulfate deprivation triggers high methane production in a disturbed and rewetted coastal peatland. Biogeosciences, 2019, 16, 1937-1953.	1.3	29
86	Potentially Active Iron, Sulfur, and Sulfate Reducing Bacteria in Skagerrak and Bothnian Bay Sediments. Geomicrobiology Journal, 2017, 34, 840-850.	1.0	28
87	Barium isotope fractionation during the experimental transformation of aragonite to witherite and of gypsum to barite, and the effect of ion (de)solvation. Isotopes in Environmental and Health Studies, 2018, 54, 324-335.	0.5	28
88	The vibrational spectra of BaMg(CO3)2 (norsethite). Mineralogical Magazine, 1997, 61, 249-256.	0.6	27
89	Biogeochemical impact of submarine ground water discharge on coastal surface sands of the southern Baltic Sea. Estuarine, Coastal and Shelf Science, 2017, 189, 131-142.	0.9	27
90	Regional Differences of Hydrographical and Sedimentological Properties in the Beibu Gulf, South China Sea. Journal of Coastal Research, 2013, 66, 49-71.	0.1	26

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91	Clumped isotope thermometry of carbonate-bearing apatite: Revised sample pre-treatment, acid digestion, and temperature calibration. Chemical Geology, 2016, 443, 97-110.	1.4	26
92	The transformation of aragonite to MnxCa(1 â^' x)CO3 solid-solutions at 20 Â°C: An experimental study. Marine Chemistry, 1997, 57, 97-106.	0.9	25
93	Stable isotope biogeochemistry of the sulfur cycle in modern marine sediments: I. seasonal dynamics in a temperate intertidal sandy surface sediment. Isotopes in Environmental and Health Studies, 2004, 40, 267-283.	0.5	25
94	Imprint of past and present environmental conditions on microbiology and biogeochemistry of coastal Quaternary sediments. Biogeosciences, 2011, 8, 55-68.	1.3	25
95	Infrared spectroscopic investigations of the calcite-rhodochrosite and parts of the calcite-magnesite mineral series. Contributions To Mineralogy and Petrology, 1992, 109, 304-306.	1.2	24
96	The Raman Spectrum of Î±-Na2Ca(CO3)2. Journal of Raman Spectroscopy, 1996, 27, 859-861.	1.2	24
97	Comment on â€œsolid solution partitioning of Sr2+, Ba2+, and Cd2+ to calciteâ€•by A. J. Tesoriero and J. F. Pankow. Geochimica Et Cosmochimica Acta, 1997, 61, 661-662.	1.6	24
98	Benthic Nutrient Fluxes from Mangrove Sediments of an Anthropogenically Impacted Estuary in Southern China. Journal of Marine Science and Engineering, 2015, 3, 466-491.	1.2	24
99	Oxygen isotope fractionation in double carbonates. Isotopes in Environmental and Health Studies, 2016, 52, 29-46.	0.5	24
100	Stable Sulfur Isotope Effects Related to Local Intense Sulfate Reduction in a Tidal Sandflat (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 109-129.	0.5	23
101	Origin of Mineralizing Fluids of the Sediment-Hosted Navachab Gold Mine, Namibia: Constraints from Stable (O, H, C, S) Isotopes. Economic Geology, 2010, 105, 285-302.	1.8	22
102	The Stable Isotopic Geochemistry of the Sulfur and Carbon Cycles in a Modern Karst Environment. Isotopes in Environmental and Health Studies, 1999, 35, 39-61.	0.5	21
103	Zygomycetes in Vesicular Basanites from Vesteris Seamount, Greenland Basin â€“ A New Type of Cryptoendolithic Fungi. PLoS ONE, 2015, 10, e0133368.	1.1	21
104	Anaerobic methane oxidation inducing carbonate precipitation at abiogenic methane seeps in the Tuscan archipelago (Italy). PLoS ONE, 2018, 13, e0207305.	1.1	21
105	Environmental changes in the Pearl River Estuary (China) as reflected by light stable isotopes and organic contaminants. Journal of Marine Systems, 2010, 82, S43-S53.	0.9	20
106	Early diagenesis of sulfur in a tropical upwelling system, Cabo Frio, southeastern Brazil. Geology, 2012, 40, 879-882.	2.0	19
107	Multi-isotope (Ba, C, O) partitioning during experimental carbonatization of a hyper-alkaline solution. Chemie Der Erde, 2018, 78, 241-247.	0.8	19
108	Sulphur and carbon isotopes as tracers of past sub-seafloor microbial activity. Scientific Reports, 2019, 9, 604.	1.6	19

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109	Stable sulfur isotope fractionation during the reduction of thiosulfate by Dethiosulfovibrio russensis. Archives of Microbiology, 2000, 174, 448-451.	1.0	18
110	Modeling of biogeochemical processes in a barrier island freshwater lens (Spiekeroog, Germany). Journal of Hydrology, 2019, 575, 1133-1144.	2.3	18
111	Characterization of synthetic BaCO3 â€“ SrCO3 (witherite-strontianite) solid-solutions by Fourier transform infrared spectroscopy. European Journal of Mineralogy, 1997, 9, 519-528.	0.4	18
112	Concrete under sulphate attack: an isotope study on sulphur sources. Isotopes in Environmental and Health Studies, 2012, 48, 105-117.	0.5	17
113	Iron sulfide formation in young and rapidly-deposited permeable sands at the land-sea transition zone. Science of the Total Environment, 2019, 649, 264-283.	3.9	17
114	Late Permianâ€“Early Triassic environmental changes recorded by multi-isotope (Re-Os-N-Hg) data and trace metal distribution from the Hovea-3 section, Western Australia. Gondwana Research, 2020, 88, 353-372.	3.0	17
115	Molybdenum isotope composition of seep carbonates â€“ Constraints on sediment biogeochemistry in seepage environments. Geochimica Et Cosmochimica Acta, 2021, 307, 56-71.	1.6	16
116	Vibrational spectra of BaMn(CO3)2 and a re-analysis of the Raman spectrum of BaMg(CO3)2. European Journal of Mineralogy, 2013, 25, 137-144.	0.4	15
117	In Search of a Field-Based Relationship Between Benthic Macrofauna and Biogeochemistry in a Modern Brackish Coastal Sea. Frontiers in Marine Science, 2018, 5, .	1.2	15
118	Experimental investigation of sulphur isotope partitioning during outgassing of hydrogen sulphide from diluted aqueous solutions and seawater. Isotopes in Environmental and Health Studies, 2010, 46, 444-453.	0.5	14
119	BaMn[CO3]2 â€“ a previously unrecognized double carbonate in low-temperature environments: Structural, spectroscopic, and textural tools for future identification. Chemie Der Erde, 2012, 72, 85-89.	0.8	14
120	Î´34S character of organosulfur compounds in kerogen and bitumen fractions of sedimentary rocks. Organic Geochemistry, 2017, 110, 60-64.	0.9	14
121	Ecological ReGional Ocean Model with vertically resolved sediments (ERGOMÂSEDÂ1.0): coupling benthic and pelagic biogeochemistry of the south-western Baltic Sea. Geoscientific Model Development, 2019, 12, 275-320.	1.3	14
122	Characterisation and origin of hydrothermal waters at SÃ£o Miguel (Azores) inferred by chemical and isotopic composition. Journal of Volcanology and Geothermal Research, 2017, 346, 104-117.	0.8	13
123	Methane-Derived Carbonates in a Native Sulfur Deposit: Stable Isotope and Trace Element Discriminations Related to the Transformation of Aragonite to Calcite. Isotopes in Environmental and Health Studies, 1998, 34, 177-190.	0.5	12
124	Solute Reservoirs Reflect Variability of Early Diagenetic Processes in Temperate Brackish Surface Sediments. Frontiers in Marine Science, 2018, 5, .	1.2	12
125	Carbon diagenesis in different sedimentary environments of the subtropical Beibu Gulf, South China Sea. Journal of Marine Systems, 2018, 186, 68-84.	0.9	12
126	Refining the temperature dependence of the oxygen and clumped isotopic compositions of structurally bound carbonate in apatite. Geochimica Et Cosmochimica Acta, 2019, 253, 19-38.	1.6	12

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127	Sulphur isotope fractionation during the reduction of elemental sulphur and thiosulphate byDethiosulfovibriospp.. Isotopes in Environmental and Health Studies, 2012, 48, 65-75.	0.5	11
128	Aragoniteâ€“calcite veins of the â€˜Erzbergâ€™ iron ore deposit (Austria): Environmental implications from young fractures. Sedimentology, 2019, 66, 604-635.	1.6	11
129	Mineral authigenesis within chemosynthetic microbial mats: Coated grain formation and phosphogenesis at a Cretaceous hydrocarbon seep, New Zealand. Depositional Record, 2021, 7, 294-310.	0.8	11
130	Metal-ion partitioning during low-temperature precipitation and dissolution of anhydrous carbonates and sulphates. , 0, , 139-187.		11
131	Bladder wrack (Fucus vesiculosus) as a multi-isotope bio-monitor in an urbanized fjord of the western Baltic Sea. Isotopes in Environmental and Health Studies, 2017, 53, 563-579.	0.5	10
132	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
133	The formation of rhodochrositeâ€“smithsonite (MnCO3â€“ZnCO3) solid-solutions at 5Â°C. Mineralogical Magazine, 1995, 59, 481-488.	0.6	8
134	Title is missing!. Organic Geochemistry, 2006, 37, 1197-1199.	0.9	8
135	Determination of Nitrate Pollution Sources in the Marano Lagoon (Italy) by using a Combined Approach of Hydrochemical and Isotopic Techniques. Procedia Earth and Planetary Science, 2013, 7, 758-761.	0.6	8
136	Holocene Hydrographic Variations From the Balticâ€North Sea Transitional Area (IODP Site M0059). Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003722.	1.3	8
137	The impact of temperature on the water isotope (²H/¹H,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 35 through a low-density polyethylene membrane. Isotopes in Environmental and Health Studies, 2021, 57, 183-192.	0.5	8
138	¹⁷O excess traces atmospheric nitrate in paleo-groundwater of the Saharan desert. Biogeosciences, 2014, 11, 3149-3161.	1.3	7
139	New aspects of sulfur biogeochemistry during ore deposition from Î´34S of elemental sulfur and organic sulfur from the Here's Your Chance Pb/Zn/Ag deposit. Chemical Geology, 2014, 387, 126-132.	1.4	7
140	Hydrothermal and magmatic contributions to surface waters in the Aso caldera, southern Japan: Implications for weathering processes in volcanic areas. Chemical Geology, 2022, 588, 120612.	1.4	7
141	Effect of temperature rise and ocean acidification on growth of calcifying tubeworm shells (<i>Spirorbis spirorbis</i>): an in situ benthocosm approach. Biogeosciences, 2018, 15, 1425-1445.	1.3	6
142	Hydrogeochemistry of near-surface groundwater on a developing barrier island (Spiekeroog,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.3	6
143	Young soils of a temperate barrier island under the impact of formation and resetting by tides and wind. Catena, 2021, 202, 105275.	2.2	6
144	Linking sedimentary sulfur and iron biogeochemistry to growth patterns of a coldâ€water coral mound in the Porcupine Basin, S.W. Ireland (IODP Expedition 307). Geobiology, 2015, 13, 424-442.	1.1	5

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145	Tales of mystery and imagination in stable isotope geochemistry: celebrating the 75th birthday of Jochen Hoefs. Isotopes in Environmental and Health Studies, 2016, 52, 1-11.	0.5	5
146	Calcium isotope fractionation upon experimental apatite formation. Chemical Geology, 2020, 551, 119737.	1.4	5
147	Postglacial evolution of Lake Constance: sedimentological and geochemical evidence from a deep-basin sediment core. Swiss Journal of Geosciences, 2022, 115, .	0.5	5
148	Sulfur Cycle. Encyclopedia of Earth Sciences Series, 2011, , 859-864.	0.1	4
149	Sulfur Isotope Fractionation in the Biogeochemical Sulfur Cycle of Marine Sediments. Isotopes in Environmental and Health Studies, 2001, 37, 97-99.	0.5	3
150	BaFe[CO3]2, a new double carbonate: Synthesis, structural characterisation, and geostability implications for high and low PT. Chemie Der Erde, 2021, 81, 125740.	0.8	3
151	The impact of intertidal areas on the carbonate system of the southern North Sea. Biogeosciences, 2020, 17, 4223-4245.	1.3	3
152	Preface to the special issue on â€œStable Isotopes in Biogeosciences IIâ€• Organic Geochemistry, 2008, 39, 1647-1648.	0.9	2
153	Sedimentary trace element sinks in a tropical upwelling system. Journal of Soils and Sediments, 2018, 18, 287-296.	1.5	2
154	Ferruginous groundwaters as a source of P, Fe, and DIC for coastal waters of the southern Baltic Sea: (Isotope) hydrobiogeochemistry and the role of an iron curtain. E3S Web of Conferences, 2018, 54, 00019.	0.2	2
155	Paleoenvironmental evolution during the Early Eocene Climate Optimum in the Chicxulub impact crater. Earth and Planetary Science Letters, 2022, 589, 117589.	1.8	2
156	13C/12C partitioning during synthesis of Na2Ca(CO3)2Â·2H2O. Journal of the Chemical Society Chemical Communications, 1994, , 1485-1485.	2.0	1
157	Sulphur tales: a tribute on the occasion of the 90th birthday of Heimo Nielsen. Isotopes in Environmental and Health Studies, 2012, 48, 1-6.	0.5	1
158	Stable Sulphur Isotope Partitioning in Permeable Tidal Sediments under Non-steady-state Conditions. Mineralogical Magazine, 1998, 62A, 205-206.	0.6	1
159	Sulfur Isotopes. Encyclopedia of Earth Sciences Series, 2011, , 864-866.	0.1	1
160	Preface to the Special Issue on â€œStable Isotopes in Biogeosciences IIIâ€• Organic Geochemistry, 2010, 41, 1-2.	0.9	0
161	In memoriam Dr Heimo Nielsen. Isotopes in Environmental and Health Studies, 2013, 49, 1-2.	0.5	0
162	Microbial Mayhem in the Nascent Chicxulub Crater. , 2019, , .		0

#	Article	IF	Citations
163	Manganese (Sedimentary Carbonates and Sulfides). Encyclopedia of Earth Sciences Series, 2011, , 541-542.	0.1	0