

# Michael E Bächtcher

## List of Publications by Year in descending order

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163  
papers

9,428  
citations

38660

50  
h-index

43802

91  
g-index

202  
all docs

202  
docs citations

202  
times ranked

7954  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Hydrothermal and magmatic contributions to surface waters in the Aso caldera, southern Japan: Implications for weathering processes in volcanic areas. <i>Chemical Geology</i> , 2022, 588, 120612.                    | 1.4 | 7         |
| 2  | Postglacial evolution of Lake Constance: sedimentological and geochemical evidence from a deep-basin sediment core. <i>Swiss Journal of Geosciences</i> , 2022, 115, .   | 0.5 | 5         |
| 3  | Paleoenvironmental evolution during the Early Eocene Climate Optimum in the Chicxulub impact crater. <i>Earth and Planetary Science Letters</i> , 2022, 589, 117589.   | 1.8 | 2         |
| 4  | The impact of temperature on the water isotope ( $\delta^2\text{H}/\delta^1\text{H}$ ) through a low-density polyethylene membrane. <i>Isotopes in Environmental and Health Studies</i> , 2021, 57, 183-192.           | 0.5 | 8         |
| 5  | Mineral authigenesis within chemosynthetic microbial mats: Coated grain formation and phosphogenesis at a Cretaceous hydrocarbon seep, New Zealand. <i>Depositional Record</i> , 2021, 7, 294-310.                     | 0.8 | 11        |
| 6  | BaFe[CO <sub>3</sub> ] <sub>2</sub> , a new double carbonate: Synthesis, structural characterisation, and geostability implications for high and low PT. <i>Chemie Der Erde</i> , 2021, 81, 125740.                    | 0.8 | 3         |
| 7  | Hydrogeochemistry of near-surface groundwater on a developing barrier island (Spiekeroog, Germany). <i>Journal of Hydrology</i> , 2021, 591, 273-283.  | 2.3 | 6         |
| 8  | Young soils of a temperate barrier island under the impact of formation and resetting by tides and wind. <i>Catena</i> , 2021, 202, 105275.  | 2.2 | 6         |
| 9  | Molybdenum isotope composition of seep carbonates – Constraints on sediment biogeochemistry in seepage environments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 307, 56-71.  | 1.6 | 16        |
| 10 | Calcification-driven CO <sub>2</sub> emissions exceed Blue Carbon sequestration in a carbonate seagrass meadow. <i>Science Advances</i> , 2021, 7, eabj1372.   | 4.7 | 33        |
| 11 | Late Permian–Early Triassic environmental changes recorded by multi-isotope (Re-Os-N-Hg) data and trace metal distribution from the Hovea-3 section, Western Australia. <i>Gondwana Research</i> , 2020, 88, 353-372.  | 3.0 | 17        |
| 12 | Calcium isotope fractionation upon experimental apatite formation. <i>Chemical Geology</i> , 2020, 551, 119737.  | 1.4 | 5         |
| 13 | Microbial life in the nascent Chicxulub crater. <i>Geology</i> , 2020, 48, 328-332.  | 2.0 | 40        |
| 14 | Holocene Hydrographic Variations From the Baltic–North Sea Transitional Area (IODP Site M0059). <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003722.  | 1.3 | 8         |
| 15 | The impact of intertidal areas on the carbonate system of the southern North Sea. <i>Biogeosciences</i> , 2020, 17, 4223-4245.   | 1.3 | 3         |
| 16 | Aragonite–calcite veins of the Erzberg iron ore deposit (Austria): Environmental implications from young fractures. <i>Sedimentology</i> , 2019, 66, 604-635.  | 1.6 | 11        |
| 17 | Modeling of biogeochemical processes in a barrier island freshwater lens (Spiekeroog, Germany). <i>Journal of Hydrology</i> , 2019, 575, 1133-1144.  | 2.3 | 18        |
| 18 | Factors controlling the carbon isotope composition of dissolved inorganic carbon and methane in marine porewater: An evaluation by reaction-transport modelling. <i>Journal of Marine Systems</i> , 2019, 200, 103227. | 0.9 | 35        |

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|----|--|-----|-----------|
| 19 | Sulphur and carbon isotopes as tracers of past sub-seafloor microbial activity. <i>Scientific Reports</i> , 2019, 9, 604.  | 1.6 | 19        |
| 20 | Sulfate deprivation triggers high methane production in a disturbed and rewetted coastal peatland. <i>Biogeosciences</i> , 2019, 16, 1937-1953.  | 1.3 | 29        |
| 21 | Ecological ReGional Ocean Model with vertically resolved sediments (ERGOMÂSEDÂ1.0): coupling benthic and pelagic biogeochemistry of the south-western Baltic Sea. <i>Geoscientific Model Development</i> , 2019, 12, 275-320.        | 1.3 | 14        |
| 22 | Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.   | 1.2 | 474       |
| 23 | Refining the temperature dependence of the oxygen and clumped isotopic compositions of structurally bound carbonate in apatite. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 253, 19-38.   | 1.6 | 12        |
| 24 | Microbial Mayhem in the Nascent Chicxulub Crater. , 2019, , .  |     | 0         |
| 25 | Iron sulfide formation in young and rapidly-deposited permeable sands at the land-sea transition zone. <i>Science of the Total Environment</i> , 2019, 649, 264-283.   | 3.9 | 17        |
| 26 | Hydrochemical evolution of a freshwater lens below a barrier island (Spiekeroog, Germany): The role of carbonate mineral reactions, cation exchange and redox processes. <i>Applied Geochemistry</i> , 2018, 92, 196-208.            | 1.4 | 38        |
| 27 | Barium isotope fractionation during the experimental transformation of aragonite to witherite and of gypsum to barite, and the effect of ion (de)solvation. <i>Isotopes in Environmental and Health Studies</i> , 2018, 54, 324-335. | 0.5 | 28        |
| 28 | Multi-isotope (Ba, C, O) partitioning during experimental carbonatization of a hyper-alkaline solution. <i>Chemie Der Erde</i> , 2018, 78, 241-247.  | 0.8 | 19        |
| 29 | Sedimentary trace element sinks in a tropical upwelling system. <i>Journal of Soils and Sediments</i> , 2018, 18, 287-296.   | 1.5 | 2         |
| 30 | Predominance of methanogens over methanotrophs in rewetted fens characterized by high methane emissions. <i>Biogeosciences</i> , 2018, 15, 6519-6536.  | 1.3 | 38        |
| 31 | Solute Reservoirs Reflect Variability of Early Diagenetic Processes in Temperate Brackish Surface Sediments. <i>Frontiers in Marine Science</i> , 2018, 5, .   | 1.2 | 12        |
| 32 | Anaerobic methane oxidation inducing carbonate precipitation at abiogenic methane seeps in the Tuscan archipelago (Italy). <i>PLoS ONE</i> , 2018, 13, e0207305.   | 1.1 | 21        |
| 33 | In Search of a Field-Based Relationship Between Benthic Macrofauna and Biogeochemistry in a Modern Brackish Coastal Sea. <i>Frontiers in Marine Science</i> , 2018, 5, .   | 1.2 | 15        |
| 34 | Understanding the Coastal Ecocline: Assessing Seaâ€“Land Interactions at Non-tidal, Low-Lying Coasts Through Interdisciplinary Research. <i>Frontiers in Marine Science</i> , 2018, 5, .   | 1.2 | 30        |
| 35 | Earthquake-induced structural deformations enhance long-term solute fluxes from active volcanic systems. <i>Scientific Reports</i> , 2018, 8, 14809.   | 1.6 | 33        |
| 36 | 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. <i>E3S Web of Conferences</i> , 2018, 54, 00019.               | 0.2 | 2         |

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|----|---|-----|-----------|
| 37 | Effect of temperature rise and ocean acidification on growth of calcifying tubeworm shells (&lt;i>Spirorbis spirorbis&lt;/i>): an in situ benthocosm approach. <i>Biogeosciences</i> , 2018, 15, 1425-1445. | 1.3 | 6         |
| 38 | Multiple sulfur isotopic evidence for the origin of elemental sulfur in an iron-dominated gas hydrate-bearing sedimentary environment. <i>Marine Geology</i> , 2018, 403, 271-284.                          | 0.9 | 35        |
| 39 | Carbon diagenesis in different sedimentary environments of the subtropical Beibu Gulf, South China Sea. <i>Journal of Marine Systems</i> , 2018, 186, 68-84.  | 0.9 | 12        |
| 40 | Biogeochemical impact of submarine ground water discharge on coastal surface sands of the southern Baltic Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 189, 131-142.                            | 0.9 | 27        |
| 41 | Nitrogen Metabolism Genes from Temperate Marine Sediments. <i>Marine Biotechnology</i> , 2017, 19, 175-190.   | 1.1 | 30        |
| 42 | Iron oxide reduction in methane-rich deep Baltic Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 256-276.  | 1.6 | 95        |
| 43 | Potentially Active Iron, Sulfur, and Sulfate Reducing Bacteria in Skagerrak and Bothnian Bay Sediments. <i>Geomicrobiology Journal</i> , 2017, 34, 840-850.   | 1.0 | 28        |
| 44 | $\delta^{34}\text{S}$ character of organosulfur compounds in kerogen and bitumen fractions of sedimentary rocks. <i>Organic Geochemistry</i> , 2017, 110, 60-64.  | 0.9 | 14        |
| 45 | Bladder wrack (<i>Fucus vesiculosus</i>) as a multi-isotope bio-monitor in an urbanized fjord of the western Baltic Sea. <i>Isotopes in Environmental and Health Studies</i> , 2017, 53, 563-579.           | 0.5 | 10        |
| 46 | Characterisation and origin of hydrothermal waters at S o Miguel (Azores) inferred by chemical and isotopic composition. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 346, 104-117.        | 0.8 | 13        |
| 47 | Cycling of redox-sensitive elements in a sandy subterranean estuary of the southern North Sea. <i>Marine Chemistry</i> , 2017, 188, 6-17.   | 0.9 | 42        |
| 48 | Tales of mystery and imagination in stable isotope geochemistry: celebrating the 75th birthday of Jochen Hoefs. <i>Isotopes in Environmental and Health Studies</i> , 2016, 52, 1-11.                       | 0.5 | 5         |
| 49 | Clumped isotope thermometry of carbonate-bearing apatite: Revised sample pre-treatment, acid digestion, and temperature calibration. <i>Chemical Geology</i> , 2016, 443, 97-110.                           | 1.4 | 26        |
| 50 | Carbon sources in the North Sea evaluated by means of radium and stable carbon isotope tracers. <i>Limnology and Oceanography</i> , 2016, 61, 666-683.  | 1.6 | 29        |
| 51 | Oxygen isotope fractionation in double carbonates. <i>Isotopes in Environmental and Health Studies</i> , 2016, 52, 29-46.   | 0.5 | 24        |
| 52 | Bacterial communities potentially involved in iron-cycling in Baltic Sea and North Sea sediments revealed by pyrosequencing. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw054.                           | 1.3 | 42        |
| 53 | Constraints on barium isotope fractionation during aragonite precipitation by corals. <i>Depositional Record</i> , 2015, 1, 118-129.  | 0.8 | 44        |
| 54 | A mesocosm concept for the simulation of near-natural shallow underwater climates: The Kiel Outdoor Benthocosms (KOB). <i>Limnology and Oceanography: Methods</i> , 2015, 13, 651-663.                      | 1.0 | 75        |

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|----|---|-----|-----------|
| 55 | Linking sedimentary sulfur and iron biogeochemistry to growth patterns of a cold-water coral mound in the Porcupine Basin, S.W. Ireland (IODP Expedition 307). <i>Geobiology</i> , 2015, 13, 424-442.                     | 1.1 | 5         |
| 56 | Benthic Nutrient Fluxes from Mangrove Sediments of an Anthropogenically Impacted Estuary in Southern China. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 466-491.  | 1.2 | 24        |
| 57 | Zygomycetes in Vesicular Basanites from Vesteris Seamount, Greenland Basin – A New Type of Cryptoendolithic Fungi. <i>PLoS ONE</i> , 2015, 10, e0133368.  | 1.1 | 21        |
| 58 | Uranium and molybdenum isotope systematics in modern euxinic basins: Case studies from the central Baltic Sea and the Kyllaren fjord (Norway). <i>Chemical Geology</i> , 2015, 396, 182-195.                              | 1.4 | 131       |
| 59 | Molecular proxies as indicators of freshwater incursion-driven salinity stratification. <i>Chemical Geology</i> , 2015, 409, 61-68.   | 1.4 | 48        |
| 60 | Microbiologically induced concrete corrosion: A case study from a combined sewer network. <i>Cement and Concrete Research</i> , 2015, 77, 16-25.  | 4.6 | 118       |
| 61 | Changes of palaeoenvironmental conditions recorded in Late Devonian reef systems from the Canning Basin, Western Australia: A biomarker and stable isotope approach. <i>Gondwana Research</i> , 2015, 28, 1500-1515.      | 3.0 | 52        |
| 62 | $\delta^{17}\text{O}$ excess traces atmospheric nitrate in paleo-groundwater of the Saharan desert. <i>Biogeosciences</i> , 2014, 11, 3149-3161.  | 1.3 | 7         |
| 63 | New aspects of sulfur biogeochemistry during ore deposition from $\delta^{34}\text{S}$ of elemental sulfur and organic sulfur from the Here's Your Chance Pb/Zn/Ag deposit. <i>Chemical Geology</i> , 2014, 387, 126-132. | 1.4 | 7         |
| 64 | Tidal and spatial variations of $\delta^{13}\text{C}$ and aquatic chemistry in a temperate tidal basin during winter time. <i>Journal of Marine Systems</i> , 2014, 129, 396-404.   | 0.9 | 47        |
| 65 | Submarine groundwater discharge to the Baltic coastal zone: Impacts on the meiofaunal community. <i>Journal of Marine Systems</i> , 2014, 129, 118-126.   | 0.9 | 42        |
| 66 | Pelagic molybdenum concentration anomalies and the impact of sediment resuspension on the molybdenum budget in two tidal systems of the North Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 119, 198-211.           | 1.6 | 44        |
| 67 | Vibrational spectra of $\text{BaMn}(\text{CO}_3)_2$ and a re-analysis of the Raman spectrum of $\text{BaMg}(\text{CO}_3)_2$ . <i>European Journal of Mineralogy</i> , 2013, 25, 137-144.                                  | 0.4 | 15        |
| 68 | Trace-element and multi-isotope geochemistry of Late-Archean black shales in the Carajás iron-ore district, Brazil. <i>Chemical Geology</i> , 2013, 362, 91-104.  | 1.4 | 40        |
| 69 | Regional Differences of Hydrographical and Sedimentological Properties in the Beibu Gulf, South China Sea. <i>Journal of Coastal Research</i> , 2013, 66, 49-71.  | 0.1 | 26        |
| 70 | Multi-isotope approach for the identification and characterisation of nitrate pollution sources in the Marano lagoon (Italy) and parts of its catchment area. <i>Applied Geochemistry</i> , 2013, 34, 75-89.              | 1.4 | 57        |
| 71 | Determination of Nitrate Pollution Sources in the Marano Lagoon (Italy) by using a Combined Approach of Hydrochemical and Isotopic Techniques. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 758-761.            | 0.6 | 8         |
| 72 | Elevated $\text{pCO}_2$ leading to Late Triassic extinction, persistent photic zone euxinia, and rising sea levels. <i>Geology</i> , 2013, 41, 955-958.   | 2.0 | 91        |

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|----|--|-----|-----------|
| 73 | Title is missing!. , 2013, 9, 96.  |     | 54        |
| 74 | In memoriam Dr Heimo Nielsen. Isotopes in Environmental and Health Studies, 2013, 49, 1-2.   | 0.5 | 0         |
| 75 | Concrete under sulphate attack: an isotope study on sulphur sources. Isotopes in Environmental and Health Studies, 2012, 48, 105-117.  | 0.5 | 17        |
| 76 | 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         |
| 77 | Sulphur isotope fractionation during the reduction of elemental sulphur and thiosulphate by <i>Dethiosulfovibrio</i> spp.. Isotopes in Environmental and Health Studies, 2012, 48, 65-75.                                    | 0.5 | 11        |
| 78 | Barium isotope fractionation during experimental formation of the double carbonate BaMn[CO <sub>3</sub> ] <sub>2</sub> at ambient temperature. Isotopes in Environmental and Health Studies, 2012, 48, 457-463.              | 0.5 | 42        |
| 79 | BaMn[CO <sub>3</sub> ] <sub>2</sub> – 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        |
| 80 | Isotopic and microbiological signatures of pyrite-driven denitrification in a sandy aquifer. Chemical Geology, 2012, 300-301, 123-132.   | 1.4 | 74        |
| 81 | 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       |
| 82 | Early diagenesis of sulfur in a tropical upwelling system, Cabo Frio, southeastern Brazil. Geology, 2012, 40, 879-882.   | 2.0 | 19        |
| 83 | Estimation of biogeochemical rates from concentration profiles: A novel inverse method. Estuarine, Coastal and Shelf Science, 2012, 100, 26-37.  | 0.9 | 32        |
| 84 | 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        |
| 85 | Sulfur Cycle. Encyclopedia of Earth Sciences Series, 2011, , 859-864.  | 0.1 | 4         |
| 86 | Molybdenum isotope fractionation in pelagic euxinia: Evidence from the modern Black and Baltic Seas. Chemical Geology, 2011, 289, 1-11.  | 1.4 | 174       |
| 87 | Imprint of past and present environmental conditions on microbiology and biogeochemistry of coastal Quaternary sediments. Biogeosciences, 2011, 8, 55-68.  | 1.3 | 25        |
| 88 | Sulfur Isotopes. Encyclopedia of Earth Sciences Series, 2011, , 864-866.   | 0.1 | 1         |
| 89 | Manganese (Sedimentary Carbonates and Sulfides). Encyclopedia of Earth Sciences Series, 2011, , 541-542.   | 0.1 | 0         |
| 90 | 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        |

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|-----|--|-----|-----------|
| 91  | Origin of Mineralizing Fluids of the Sediment-Hosted Navachab Gold Mine, Namibia: Constraints from Stable (O, H, C, S) Isotopes. <i>Economic Geology</i> , 2010, 105, 285-302.   | 1.8 | 22        |
| 92  | A new particulate Mn-Fe-P-shuttle at the redoxcline of anoxic basins. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7100-7115.  | 1.6 | 215       |
| 93  | An integrated biomarker, isotopic and palaeoenvironmental study through the Late Permian event at Lusitaniadalen, Spitsbergen. <i>Earth and Planetary Science Letters</i> , 2010, 291, 84-96.  | 1.8 | 109       |
| 94  | Significance of $\delta^{13}C$ kerogen, $\delta^{13}C$ kerogen and $\delta^{34}S$ pyrite from several Permian/Triassic (P/Tr) sections. <i>Earth and Planetary Science Letters</i> , 2010, 295, 21-29.   | 1.8 | 35        |
| 95  | Barium isotope fractionation in the global barium cycle: First evidence from barium minerals and precipitation experiments. <i>Chemical Geology</i> , 2010, 277, 70-77.  | 1.4 | 118       |
| 96  | Preface to the Special Issue on "Stable Isotopes in Biogeosciences III": <i>Organic Geochemistry</i> , 2010, 41, 1-2.  | 0.9 | 0         |
| 97  | Experimental investigation of sulphur isotope partitioning during outgassing of hydrogen sulphide from diluted aqueous solutions and seawater. <i>Isotopes in Environmental and Health Studies</i> , 2010, 46, 444-453.                                  | 0.5 | 14        |
| 98  | Functioning of intertidal flats inferred from temporal and spatial dynamics of O <sub>2</sub> , H <sub>2</sub> S and pH in their surface sediment. <i>Ocean Dynamics</i> , 2009, 59, 317-332.  | 0.9 | 70        |
| 99  | Seasonal dynamics of microbial sulfate reduction in temperate intertidal surface sediments: controls by temperature and organic matter. <i>Ocean Dynamics</i> , 2009, 59, 351-370.   | 0.9 | 73        |
| 100 | Trace metal dynamics in the water column and pore waters in a temperate tidal system: response to the fate of algae-derived organic matter. <i>Ocean Dynamics</i> , 2009, 59, 333-350.   | 0.9 | 51        |
| 101 | Paleo-redox conditions during OAE 2 reflected in Demerara Rise sediment geochemistry (ODP Leg 207). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 273, 302-328.   | 1.0 | 172       |
| 102 | Preface to the special issue on "Stable Isotopes in Biogeosciences II": <i>Organic Geochemistry</i> , 2008, 39, 1647-1648.   | 0.9 | 2         |
| 103 | Biogeochemistry of sulfur and iron in Thioploca-colonized surface sediments in the upwelling area off central Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 827-843.   | 1.6 | 73        |
| 104 | Sulfidity controls molybdenum isotope fractionation into euxinic sediments: Evidence from the modern Black Sea. <i>Geology</i> , 2008, 36, 775.  | 2.0 | 252       |
| 105 | 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). <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4221-4232. | 1.6 | 121       |
| 106 | Geomicrobiological and geochemical investigation of a pyrrhotite-containing mine waste tailings dam near Selebi-Phikwe in Botswana. <i>Journal of Geochemical Exploration</i> , 2007, 92, 151-158.   | 1.5 | 30        |
| 107 | Title is missing!. <i>Organic Geochemistry</i> , 2006, 37, 1197-1199.  | 0.9 | 8         |
| 108 | Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-Rømme Basin, Wadden Sea. <i>Limnology and Oceanography</i> , 2005, 50, 113-127.   | 1.6 | 188       |

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|-----|---|-----|-----------|
| 109 | Diversity and vertical distribution of magnetotactic bacteria along chemical gradients in freshwater microcosms. <i>FEMS Microbiology Ecology</i> , 2005, 52, 185-195.  | 1.3 | 127       |
| 110 | $^{34}\text{S}/^{32}\text{S}$ and $^{18}\text{O}/^{16}\text{O}$ Fractionation During Sulfur Disproportionation by <i>Desulfobulbus propionicus</i> . <i>Geomicrobiology Journal</i> , 2005, 22, 219-226.  | 1.0 | 84        |
| 111 | Photic Zone Euxinia During the Permian-Triassic Superanoxic Event. <i>Science</i> , 2005, 307, 706-709.   | 6.0 | 721       |
| 112 | Intense pyrite formation under low-sulfate conditions in the Achterwasser lagoon, SW Baltic Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3619-3630.  | 1.6 | 54        |
| 113 | Microbial sulfate reduction in deep sediments of the Southwest Pacific (ODP Leg 181, Sites 1119-1125): evidence from stable sulfur isotope fractionation and pore water modeling. <i>Marine Geology</i> , 2004, 205, 249-260.   | 0.9 | 35        |
| 114 | Stable isotope biogeochemistry of the sulfur cycle in modern marine sediments: I. seasonal dynamics in a temperate intertidal sandy surface sediment. <i>Isotopes in Environmental and Health Studies</i> , 2004, 40, 267-283.  | 0.5 | 25        |
| 115 | Anaerobic methane oxidation and a deep $\text{H}_2\text{S}$ sink generate isotopically heavy sulfides in Black Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2095-2118.   | 1.6 | 341       |
| 116 | Geochemistry of Peruvian near-surface sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4429-4451.  | 1.6 | 326       |
| 117 | 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. <i>Earth and Planetary Science Letters</i> , 2004, 228, 495-509. | 1.8 | 119       |
| 118 | Pyritization processes and greigite formation in the advancing sulfidization front in the upper Pleistocene sediments of the Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2081-2093.   | 1.6 | 149       |
| 119 | The Role of a Transcrustal Shear Zone in Orogenic Gold Mineralization at the Ajjanahalli Mine, Dharwar Craton, South India. <i>Economic Geology</i> , 2004, 99, 743-759.  | 1.8 | 34        |
| 120 | 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         |
| 121 | Sulfur isotope geochemistry of the Black Sea water column. <i>Chemical Geology</i> , 2003, 200, 59-69.  | 1.4 | 52        |
| 122 | Community structure and activity of sulfate-reducing bacteria in an intertidal surface sediment: a multi-method approach. <i>Aquatic Microbial Ecology</i> , 2002, 29, 211-226.   | 0.9 | 111       |
| 123 | Trace metals in Holocene coastal peats and their relation to pyrite formation (NW Germany). <i>Chemical Geology</i> , 2002, 182, 423-442.   | 1.4 | 75        |
| 124 | GEOCHEMICAL CHARACTERIZATION OF CENOMANIAN/TURONIAN BLACK SHALES FROM THE TARFAYA BASIN (SW MOROCCO). RELATIONSHIPS BETWEEN PALAEOENVIRONMENTAL CONDITIONS AND EARLY SULPHURIZATION OF SEDIMENTARY ORGANIC MATTER. <i>Journal of Petroleum Geology</i> , 2002, 25, 325-350.         | 0.9 | 75        |
| 125 | A sulfur budget for the Black Sea anoxic zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 2569-2593.  | 0.6 | 95        |
| 126 | Anaerobic sulfide oxidation and stable isotope fractionation associated with bacterial sulfur disproportionation in the presence of $\text{MnO}_2$ . <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1573-1581.  | 1.6 | 128       |



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|-----|---|------|-----------|
| 127 | Oxygen and sulfur isotope fractionation during anaerobic bacterial disproportionation of elemental sulfur. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1601-1609.  | 1.6  | 225       |
| 128 | Sulfur Isotope Fractionation in the Biogeochemical Sulfur Cycle of Marine Sediments. <i>Isotopes in Environmental and Health Studies</i> , 2001, 37, 97-99.   | 0.5  | 3         |
| 129 | Sulfur and iron speciation in surface sediments along the northwestern margin of the Black Sea. <i>Marine Chemistry</i> , 2001, 74, 261-278.  | 0.9  | 102       |
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