

Thilo Behrends

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,315
citations

172457

29
h-index

214800

47
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54
all docs

54
docs citations

54
times ranked

2845
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphate coprecipitation affects reactivity of iron (oxyhydr)oxides towards dissolved iron and sulfide. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 321, 311-328.	3.9	13
2	Coastal hypoxia and eutrophication as key controls on benthic release and water column dynamics of iron and manganese. <i>Limnology and Oceanography</i> , 2021, 66, 807-826.	3.1	17
3	Coupled dynamics of iron, manganese, and phosphorus in brackish coastal sediments populated by cable bacteria. <i>Limnology and Oceanography</i> , 2021, 66, 2611-2631.	3.1	12
4	A sequential extraction procedure for particulate manganese and its application to coastal marine sediments. <i>Chemical Geology</i> , 2021, 584, 120538.	3.3	11
5	Achieving arsenic concentrations of $<1\frac{1}{4}\text{g/L}$ by Fe(0) electrolysis: The exceptional performance of magnetite. <i>Water Research</i> , 2020, 168, 115170.	11.3	33
6	What does mediated electrochemistry reveal about regional differences in the redox properties of Boom Clay?. <i>Applied Geochemistry</i> , 2020, 120, 104681.	3.0	2
7	Coprecipitation of Phosphate and Silicate Affects Environmental Iron (Oxyhydr)Oxide Transformations: A Gel-Based Diffusive Sampler Approach. <i>Environmental Science & Technology</i> , 2020, 54, 12795-12802.	10.0	13
8	Changes in Sedimentary Phosphorus Burial Following Artificial Eutrophication of Lake 227, Experimental Lakes Area, Ontario, Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005713.	3.0	23
9	Controls on the shuttling of manganese over the northwestern Black Sea shelf and its fate in the euxinic deep basin. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 177-204.	3.9	19
10	Emerging investigator series: interdependency of green rust transformation and the partitioning and binding mode of arsenic. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1459-1476.	3.5	13
11	Kinetics of selenite interactions with Boom Clay: adsorption–reduction interplay. <i>Geological Society Special Publication</i> , 2019, 482, 225-239.	1.3	3
12	Sorption of phosphate and silicate alters dissolution kinetics of poorly crystalline iron (oxyhydr)oxide. <i>Chemosphere</i> , 2019, 234, 690-701.	8.2	26
13	Hydrological and biogeochemical controls on Fe cycling at the Krabbenkreek supratidal/intertidal zone, the Netherlands: Why does the Fe pump sputter?. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 219, 372-383.	2.1	1
14	The shelf-to-basin iron shuttle in the Black Sea revisited. <i>Chemical Geology</i> , 2019, 511, 314-341.	3.3	42
15	Impact of natural re-oxygenation on the sediment dynamics of manganese, iron and phosphorus in a euxinic Baltic Sea basin. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 174-196.	3.9	33
16	Sustaining efficient production of aqueous iron during repeated operation of Fe(0)-electrocoagulation. <i>Water Research</i> , 2019, 155, 455-464.	11.3	48
17	Phosphorus Cycling and Burial in Sediments of a Seasonally Hypoxic Marine Basin. <i>Estuaries and Coasts</i> , 2018, 41, 921-939.	2.2	13
18	Controls on the formation of Fe(II,III) (hydr)oxides by Fe(0) electrolysis. <i>Electrochimica Acta</i> , 2018, 286, 324-338.	5.2	36

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19	Fate of Adsorbed U(VI) during Sulfidization of Lepidocrocite and Hematite. <i>Environmental Science & Technology</i> , 2017, 51, 2140-2150.	10.0	25
20	Phosphorus burial in sediments of the sulfidic deep Black Sea: Key roles for adsorption by calcium carbonate and apatite authigenesis. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 140-158.	3.9	68
21	Redox properties of clay-rich sediments as assessed by mediated electrochemical analysis: Separating pyrite, siderite and structural Fe in clay minerals. <i>Chemical Geology</i> , 2017, 457, 149-161.	3.3	25
22	Optimized sequential extraction for carbonates: Quantification and $\delta^{13}\text{C}$ analysis of calcite, dolomite and siderite. <i>Chemical Geology</i> , 2016, 443, 146-157.	3.3	14
23	Impact of cable bacteria on sedimentary iron and manganese dynamics in a seasonally-hypoxic marine basin. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 192, 49-69.	3.9	70
24	First assessment of the pore water composition of Rupel Clay in the Netherlands and the characterisation of its reactive solids. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2016, 95, 315-335.	0.9	3
25	Fe hydroxyphosphate precipitation and Fe(II) oxidation kinetics upon aeration of Fe(II) and phosphate-containing synthetic and natural solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 186, 71-90.	3.9	50
26	Vivianite is a key sink for phosphorus in sediments of the Landsort Deep, an intermittently anoxic deep basin in the Baltic Sea. <i>Chemical Geology</i> , 2016, 438, 58-72.	3.3	80
27	Vivianite is a major sink for phosphorus in methanogenic coastal surface sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 217-235.	3.9	128
28	Pyrite formation and mineral transformation pathways upon sulfidation of ferric hydroxides depend on mineral type and sulfide concentration. <i>Chemical Geology</i> , 2015, 400, 44-55.	3.3	83
29	Characterization of phosphorus species in sediments from the Arabian Sea oxygen minimum zone: Combining sequential extractions and X-ray spectroscopy. <i>Marine Chemistry</i> , 2015, 168, 1-8.	2.3	32
30	Redox-dependent changes in manganese speciation in Baltic Sea sediments from the Holocene Thermal Maximum: An EXAFS, XANES and LA-ICP-MS study. <i>Chemical Geology</i> , 2014, 370, 49-57.	3.3	40
31	Sulfidization of lepidocrocite and its effect on uranium phase distribution and reduction. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 570-586.	3.9	17
32	Effects of temperature on rates and mineral products of microbial Fe(II) oxidation by <i>Leptothrix cholodnii</i> at microaerobic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 108, 107-124.	3.9	42
33	Effect of dissolved calcium on the removal of bacteriophage PRD1 during soil passage: The role of double-layer interactions. <i>Journal of Contaminant Hydrology</i> , 2013, 144, 78-87.	3.3	22
34	Bacteriophage PRD1 batch experiments to study attachment, detachment and inactivation processes. <i>Journal of Contaminant Hydrology</i> , 2013, 152, 12-17.	3.3	15
35	Oxygen Dependency of Neutrophilic Fe(II) Oxidation by <i>Leptothrix</i> Differs from Abiotic Reaction. <i>Geomicrobiology Journal</i> , 2012, 29, 550-560.	2.0	40
36	Implementation of microbial processes in the performance assessment of spent nuclear fuel repositories. <i>Applied Geochemistry</i> , 2012, 27, 453-462.	3.0	36

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37	Pathways of ferrous iron mineral formation upon sulfidation of lepidocrocite surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 81, 69-81.	3.9	81
38	Distribution and Diversity of <i>Gallionella</i> -Like Neutrophilic Iron Oxidizers in a Tidal Freshwater Marsh. <i>Applied and Environmental Microbiology</i> , 2011, 77, 2337-2344.	3.1	37
39	Reactivity of biogenic silica: Surface versus bulk charge density. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 517-530.	3.9	64
40	Seawater-mediated interactions between diatomaceous silica and terrigenous sediments: Results from long-term incubation experiments. <i>Chemical Geology</i> , 2010, 270, 68-79.	3.3	52
41	Solubility and dissimilatory reduction kinetics of iron(III) oxyhydroxides: A linear free energy relationship. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5273-5282.	3.9	154
42	Biosorption of metals (Cu ²⁺ , Zn ²⁺) and anions (F ⁻ , H ₂ PO ₄ ⁻) by viable and autoclaved cells of the Gram-negative bacterium <i>Shewanella putrefaciens</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 65, 126-133.	5.0	63
43	Dissolution of biogenic silica from land to ocean: Role of salinity and pH. <i>Limnology and Oceanography</i> , 2008, 53, 1614-1621.	3.1	118
44	Uranium mobility in subsurface aqueous systems: the influence of redox conditions. <i>Mineralogical Magazine</i> , 2008, 72, 381-384.	1.4	18
45	Transformation of Hematite into Magnetite During Dissimilatory Iron Reduction – Conditions and Mechanisms. <i>Geomicrobiology Journal</i> , 2007, 24, 403-416.	2.0	49
46	Reduction of Fe(III) colloids by <i>Shewanella putrefaciens</i> : A kinetic model. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5842-5854.	3.9	73
47	Competition between enzymatic and abiotic reduction of uranium(VI) under iron reducing conditions. <i>Chemical Geology</i> , 2005, 220, 315-327.	3.3	117
48	What do acid-base titrations of live bacteria tell us? A preliminary assessment. <i>Aquatic Sciences</i> , 2004, 66, 19-26.	1.5	44
49	Microbial reduction of iron(III) oxyhydroxides: effects of mineral solubility and availability. <i>Chemical Geology</i> , 2004, 212, 255-268.	3.3	242
50	Ein Drei-Bereiche-Modell zur Beschreibung der Adsorbierung von aromatischen Verbindungen an tensidbelegtem Silikagel. <i>Clean - Soil, Air, Water</i> , 1999, 27, 422-429.	0.6	6
51	Analysis of Cationic Surfactants by Microbore High-Performance Liquid Chromatography – Electro spray Mass Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 5362-5366.	6.5	49