

Stephan M Kraemer

List of Publications by Year in descending order

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55
papers

3,098
citations

172457

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155660

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57
docs citations

57
times ranked

3119
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil-pH and cement influence the weathering kinetics of chrysotile asbestos in soils and its hydroxyl radical yield. <i>Journal of Hazardous Materials</i> , 2022, 431, 128068.	12.4	5
2	Ligand-Induced U Mobilization from Chemogenic Uraninite and Biogenic Noncrystalline U(IV) under Anoxic Conditions. <i>Environmental Science & Technology</i> , 2022, 56, 6369-6379.	10.0	8
3	Copper mobilisation from Cu sulphide minerals by methanobactin: Effect of pH, oxygen and natural organic matter. <i>Geobiology</i> , 2022, 20, 690-706.	2.4	5
4	Catalytic effects of photogenerated Fe(II) on the ligand-controlled dissolution of Iron(hydr)oxides by EDTA and DFOB. <i>Chemosphere</i> , 2021, 263, 128188.	8.2	3
5	Linking Isotope Exchange with Fe(II)-Catalyzed Dissolution of Iron(hydr)oxides in the Presence of the Bacterial Siderophore Desferrioxamine-B. <i>Environmental Science & Technology</i> , 2020, 54, 768-777.	10.0	5
6	Importance of oxidation products in coumarin-mediated Fe(hydr)oxide mineral dissolution. <i>BioMetals</i> , 2020, 33, 305-321.	4.1	12
7	Genome wide transcriptomic analysis of the soil ammonia oxidizing archaeon <i>Nitrososphaera viennensis</i> upon exposure to copper limitation. <i>ISME Journal</i> , 2020, 14, 2659-2674.	9.8	33
8	Investigation of Siderophore-Promoted and Reductive Dissolution of Dust in Marine Microenvironments Such as <i>Trichodesmium</i> Colonies. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	9
9	Identifying the reactive sites of hydrogen peroxide decomposition and hydroxyl radical formation on chrysotile asbestos surfaces. <i>Particle and Fibre Toxicology</i> , 2020, 17, 3.	6.2	6
10	Copper limiting threshold in the terrestrial ammonia oxidizing archaeon <i>Nitrososphaera viennensis</i> . <i>Research in Microbiology</i> , 2020, 171, 134-142.	2.1	12
11	Mercury Isotope Fractionation in the Subsurface of a Hg(II) Chloride-Contaminated Industrial Legacy Site. <i>Environmental Science & Technology</i> , 2019, 53, 7296-7305.	10.0	29
12	Fe(II)-Catalyzed Ligand-Controlled Dissolution of Iron(hydr)oxides. <i>Environmental Science & Technology</i> , 2019, 53, 88-97.	10.0	26
13	The Effect of pH and Biogenic Ligands on the Weathering of Chrysotile Asbestos: The Pivotal Role of Tetrahedral Fe in Dissolution Kinetics and Radical Formation. <i>Chemistry - A European Journal</i> , 2019, 25, 3286-3300.	3.3	9
14	Low Fe(II) Concentrations Catalyze the Dissolution of Various Fe(III) (hydr)oxide Minerals in the Presence of Diverse Ligands and over a Broad pH Range. <i>Environmental Science & Technology</i> , 2019, 53, 98-107.	10.0	34
15	Structure and reactivity of oxalate surface complexes on lepidocrocite derived from infrared spectroscopy, DFT-calculations, adsorption, dissolution and photochemical experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 244-262.	3.9	37
16	Phytosiderophore-induced mobilization and uptake of Cd, Cu, Fe, Ni, Pb and Zn by wheat plants grown on metal-enriched soils. <i>Environmental and Experimental Botany</i> , 2017, 138, 67-76.	4.2	37
17	Magnitude and Mechanism of Siderophore-Mediated Competition at Low Iron Solubility in the <i>Pseudomonas aeruginosa</i> Pyochelin System. <i>Frontiers in Microbiology</i> , 2017, 8, 1964.	3.5	32
18	Microbial decomposition of ¹³ C- labeled phytosiderophores in the rhizosphere of wheat: Mineralization dynamics and key microbial groups involved. <i>Soil Biology and Biochemistry</i> , 2016, 98, 196-207.	8.8	20

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19	Synergistic Effects between Biogenic Ligands and a Reductant in Fe Acquisition from Calcareous Soil. <i>Environmental Science & Technology</i> , 2016, 50, 6381-6388.	10.0	27
20	Synergistic Effect of Reductive and Ligand-Promoted Dissolution of Goethite. <i>Environmental Science & Technology</i> , 2015, 49, 7236-7244.	10.0	69
21	Metallophores and Trace Metal Biogeochemistry. <i>Aquatic Geochemistry</i> , 2015, 21, 159-195.	1.3	76
22	Accurate LC-ESI-MS/MS quantification of 2-oxo-deoxymugineic acid in soil and root related samples employing porous graphitic carbon as stationary phase and a ^{13}C -labeled internal standard. <i>Electrophoresis</i> , 2014, 35, 1375-1385.	2.4	16
23	Root exudation of phytosiderophores from soil-grown wheat. <i>New Phytologist</i> , 2014, 203, 1161-1174.	7.3	124
24	The influence of pH on iron speciation in podzol extracts: Iron complexes with natural organic matter, and iron mineral nanoparticles. <i>Science of the Total Environment</i> , 2013, 461-462, 108-116.	8.0	55
25	Copper complexation of methanobactin isolated from <i>Methylosinus trichosporium</i> OB3b: pH-dependent speciation and modeling. <i>Journal of Inorganic Biochemistry</i> , 2012, 116, 55-62.	3.5	19
26	Iron speciation and isotope fractionation during silicate weathering and soil formation in an alpine glacier forefield chronosequence. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5559-5573.	3.9	62
27	Isolation and purification of Cu-free methanobactin from <i>Methylosinus trichosporium</i> OB3b. <i>Geochemical Transactions</i> , 2011, 12, 2.	0.7	13
28	A Simple Assay for Screening Microorganisms for Chalkophore Production. <i>Methods in Enzymology</i> , 2011, 495, 247-258.	1.0	14
29	Siderophores. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 793-796.	0.1	3
30	Iron Isotope Fractionation during Fe Uptake and Translocation in Alpine Plants. <i>Environmental Science & Technology</i> , 2010, 44, 6144-6150.	10.0	72
31	Iron isotope fractionation during proton- and ligand-promoted dissolution of primary phyllosilicates. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3112-3128.	3.9	90
32	An assay for screening microbial cultures for chalkophore production. <i>Environmental Microbiology Reports</i> , 2010, 2, 295-303.	2.4	43
33	Adsorption of hydroxamate siderophores and EDTA on goethite in the presence of the surfactant sodium dodecyl sulfate. <i>Geochemical Transactions</i> , 2009, 10, 5.	0.7	6
34	Wavelength-Dependence of Photoreductive Dissolution of Lepidocrocite (Fe^{3+} -FeOOH) in the Absence and Presence of the Siderophore DFOB. <i>Environmental Science & Technology</i> , 2009, 43, 1871-1876.	10.0	20
35	Photoreductive Dissolution of Iron(III) (Hydr)oxides in the Absence and Presence of Organic Ligands: Experimental Studies and Kinetic Modeling. <i>Environmental Science & Technology</i> , 2009, 43, 1864-1870.	10.0	76
36	ATR-FTIR spectroscopic study of the adsorption of desferrioxamine B and aerobactin to the surface of lepidocrocite (Fe^{3+} -FeOOH). <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4661-4672.	3.9	44

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37	Photodissolution of lepidocrocite ($^3\text{FeOOH}$) in the presence of desferrioxamine B and aerobactin. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4673-4687.	3.9	31
38	Effects of anionic surfactants on ligand-promoted dissolution of iron and aluminum hydroxides. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 279-287.	9.4	14
39	Iron Isotope Fractionation during Pedogenesis in Redoximorphic Soils. <i>Soil Science Society of America Journal</i> , 2007, 71, 1840-1850.	2.2	79
40	Iron isotope fractionation in oxic soils by mineral weathering and podzolization. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5821-5833.	3.9	118
41	Photolysis of Citrate on the Surface of Lepidocrocite: An in situ Attenuated Total Reflection Infrared Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10560-10569.	3.1	48
42	Low Concentrations of Surfactants Enhance Siderophore-Promoted Dissolution of Goethite. <i>Environmental Science & Technology</i> , 2007, 41, 3633-3638.	10.0	31
43	Rate laws of steady-state and non-steady-state ligand-controlled dissolution of goethite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 306, 22-28.	4.7	20
44	Iron Isotope Fractionation during Proton-Promoted, Ligand-Controlled, and Reductive Dissolution of Goethite. <i>Environmental Science & Technology</i> , 2006, 40, 3787-3793.	10.0	235
45	Effect of siderophores on the light-induced dissolution of colloidal iron(III) (hydr)oxides. <i>Marine Chemistry</i> , 2005, 93, 179-193.	2.3	133
46	4. Siderophores and the Dissolution of Iron-Bearing Minerals in Marine Systems. , 2005, , 53-84.		17
47	Bacterial Siderophores Promote Dissolution of UO_2 under Reducing Conditions. <i>Environmental Science & Technology</i> , 2005, 39, 5709-5715.	10.0	65
48	Iron oxide dissolution and solubility in the presence of siderophores. <i>Aquatic Sciences</i> , 2004, 66, 3-18.	1.5	522
49	Biogeochemical controls on the mobility and bioavailability of metals in soils and groundwater. <i>Aquatic Sciences</i> , 2004, 66, 1-2.	1.5	34
50	Steady-state dissolution kinetics of goethite in the presence of desferrioxamine B and oxalate ligands: implications for the microbial acquisition of iron. <i>Chemical Geology</i> , 2003, 198, 63-75.	3.3	190
51	Adsorption of Pb(II) and Eu(III) by Oxide Minerals in the Presence of Natural and Synthetic Hydroxamate Siderophores. <i>Environmental Science & Technology</i> , 2002, 36, 1287-1291.	10.0	77
52	Temperature dependence of goethite dissolution promoted by trihydroxamate siderophores. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 431-438.	3.9	86
53	Effect of hydroxamate siderophores on Fe release and Pb(II) adsorption by goethite. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3003-3008.	3.9	128
54	Influence of pH and Competitive Adsorption on the Kinetics of Ligand-Promoted Dissolution of Aluminum Oxide. <i>Environmental Science & Technology</i> , 1998, 32, 2876-2882.	10.0	59

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55	Influence of solution saturation state on the kinetics of ligand-controlled dissolution of oxide phases. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 2855-2866.	3.9	54