

Ruben Kretzschmar

List of Publications by Year in descending order

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210
papers

16,436
citations

9264

74
h-index

19190

118
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216
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docs citations

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times ranked

12319
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogeochemical Redox Processes and their Impact on Contaminant Dynamics. <i>Environmental Science & Technology</i> , 2010, 44, 15-23.	10.0	1,037
2	Mobile Subsurface Colloids and Their Role in Contaminant Transport. <i>Advances in Agronomy</i> , 1999, 66, 121-193.	5.2	531
3	Quantitative antimony speciation in shooting-range soils by EXAFS spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3299-3312.	3.9	282
4	Experimental determination of colloid deposition rates and collision efficiencies in natural porous media. <i>Water Resources Research</i> , 1997, 33, 1129-1137.	4.2	257
5	Mercury Deposition and Re-emission Pathways in Boreal Forest Soils Investigated with Hg Isotope Signatures. <i>Environmental Science & Technology</i> , 2015, 49, 7188-7196.	10.0	242
6	Changes in Zinc Speciation in Field Soil after Contamination with Zinc Oxide. <i>Environmental Science & Technology</i> , 2005, 39, 6616-6623.	10.0	235
7	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
8	Spectroscopic Evidence for Ternary Complex Formation between Arsenate and Ferric Iron Complexes of Humic Substances. <i>Environmental Science & Technology</i> , 2011, 45, 9550-9557.	10.0	234
9	Transport of Humic-Coated Iron Oxide Colloids in a Sandy Soil: Influence of Ca ²⁺ and Trace Metals. <i>Environmental Science & Technology</i> , 1997, 31, 3497-3504.	10.0	233
10	Equilibrium Mercury Isotope Fractionation between Dissolved Hg(II) Species and Thiol-Bound Hg. <i>Environmental Science & Technology</i> , 2010, 44, 4191-4197.	10.0	230
11	Soil Biogeochemical Processes within the Critical Zone. <i>Elements</i> , 2007, 3, 321-326.	0.5	224
12	Redox-Controlled Changes in Cadmium Solubility and Solid-Phase Speciation in a Paddy Soil As Affected by Reducible Sulfate and Copper. <i>Environmental Science & Technology</i> , 2013, 47, 12775-12783.	10.0	222
13	Transport of in Situ Mobilized Colloidal Particles in Packed Soil Columns. <i>Environmental Science & Technology</i> , 1998, 32, 3562-3569.	10.0	219
14	Combining Selective Sequential Extractions, X-ray Absorption Spectroscopy, and Principal Component Analysis for Quantitative Zinc Speciation in Soil. <i>Environmental Science & Technology</i> , 2002, 36, 5021-5028.	10.0	215
15	Absolute Aggregation Rate Constants of Hematite Particles in Aqueous Suspensions: A Comparison of Two Different Surface Morphologies. <i>Journal of Colloid and Interface Science</i> , 1997, 196, 241-253.	9.4	201
16	Arsenic sequestration by organic sulphur in peat. <i>Nature Geoscience</i> , 2012, 5, 66-73.	12.9	201
17	Dissolution mechanisms of goethite in the presence of siderophores and organic acids. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5635-5650.	3.9	184
18	Influence of pH and Humic Acid on Coagulation Kinetics of Kaolinite: A Dynamic Light Scattering Study. <i>Journal of Colloid and Interface Science</i> , 1998, 202, 95-103.	9.4	183

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19	Temperature Dependence and Coupling of Iron and Arsenic Reduction and Release during Flooding of a Contaminated Soil. <i>Environmental Science & Technology</i> , 2010, 44, 116-122.	10.0	182
20	Metal Retention and Transport on Colloidal Particles in the Environment. <i>Elements</i> , 2005, 1, 205-210.	0.5	180
21	Spatial Distribution and Temporal Variability of Arsenic in Irrigated Rice Fields in Bangladesh. 2. Paddy Soil. <i>Environmental Science & Technology</i> , 2007, 41, 5967-5972.	10.0	173
22	Contaminant mobilization by metallic copper and metal sulphide colloids in flooded soil. <i>Nature Geoscience</i> , 2009, 2, 267-271.	12.9	167
23	Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part I: Characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1111-1127.	3.9	165
24	Effects of Adsorbed Humic Acid on Surface Charge and Flocculation of Kaolinite. <i>Soil Science Society of America Journal</i> , 1997, 61, 101-108.	2.2	163
25	Relating Ion Binding by Fulvic and Humic Acids to Chemical Composition and Molecular Size. 2. Metal Binding. <i>Environmental Science & Technology</i> , 2001, 35, 2512-2517.	10.0	158
26	Chemical and Biological Gradients along the Damma Glacier Soil Chronosequence, Switzerland. <i>Vadose Zone Journal</i> , 2011, 10, 867-883.	2.2	158
27	Multi-metal contaminant dynamics in temporarily flooded soil under sulfate limitation. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5513-5527.	3.9	149
28	Chemical Heterogeneity of Organic Soil Colloids Investigated by Scanning Transmission X-ray Microscopy and C-1s NEXAFS Microspectroscopy. <i>Environmental Science & Technology</i> , 2005, 39, 9094-9100.	10.0	147
29	Distribution and speciation of arsenic around roots in a contaminated riparian floodplain soil: Micro-XRF element mapping and EXAFS spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5804-5820.	3.9	145
30	Control of arsenic mobilization in paddy soils by manganese and iron oxides. <i>Environmental Pollution</i> , 2017, 231, 37-47.	7.5	145
31	Solution Speciation Controls Mercury Isotope Fractionation of Hg(II) Sorption to Goethite. <i>Environmental Science & Technology</i> , 2012, 46, 6654-6662.	10.0	143
32	Combining spectroscopic and isotopic techniques gives a dynamic view of phosphorus cycling in soil. <i>Nature Communications</i> , 2018, 9, 3226.	12.8	141
33	Impact of Organic Matter on Iron(II)-Catalyzed Mineral Transformations in Ferrihydrite-Organic Matter Coprecipitates. <i>Environmental Science & Technology</i> , 2018, 52, 12316-12326.	10.0	139
34	Relating Ion Binding by Fulvic and Humic Acids to Chemical Composition and Molecular Size. 1. Proton Binding. <i>Environmental Science & Technology</i> , 2001, 35, 2505-2511.	10.0	135
35	Spatial Distribution and Temporal Variability of Arsenic in Irrigated Rice Fields in Bangladesh. 1. Irrigation Water. <i>Environmental Science & Technology</i> , 2007, 41, 5960-5966.	10.0	132
36	Arsenic release from paddy soils during monsoon-flooding. <i>Nature Geoscience</i> , 2010, 3, 53-59.	12.9	123

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37	Interaction of copper and fulvic acid at the hematite-water interface. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3435-3442.	3.9	120
38	Iron isotope fractionation in oxic soils by mineral weathering and podzolization. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5821-5833.	3.9	118
39	Influence of Natural Organic Matter on Colloid Transport Through Saprolite. <i>Water Resources Research</i> , 1995, 31, 435-445.	4.2	117
40	Competitive sorption of carbonate and arsenic to hematite: Combined ATR-FTIR and batch experiments. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 313-321.	9.4	116
41	Transport of Iron Oxide Colloids in Packed Quartz Sand Media: Monolayer and Multilayer Deposition. <i>Journal of Colloid and Interface Science</i> , 2000, 231, 32-41.	9.4	115
42	Competitive sorption of copper and lead at the oxide-water interface: Implications for surface site density. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2929-2938.	3.9	108
43	Solid solution between Al-ettringite and Fe-ettringite ($\text{Ca}_6[\text{Al}_{1-x}\text{Fe}_x(\text{OH})_6]_2(\text{SO}_4)_3 \cdot 26\text{H}_2\text{O}$). <i>Cement and Concrete Research</i> , 2009, 39, 482-489.	11.0	107
44	ATR-FTIR Spectroscopy Study of the Influence of pH and Contact Time on the Adhesion of <i>Shewanella putrefaciens</i> Bacterial Cells to the Surface of Hematite. <i>Environmental Science & Technology</i> , 2012, 46, 12848-12855.	10.0	107
45	Long- and short-term effects of crop residues on aluminum toxicity, phosphorus availability and growth of pearl millet in an acid sandy soil. <i>Plant and Soil</i> , 1991, 136, 215-223.	3.7	104
46	Chemical heterogeneity of humic substances: characterization of size fractions obtained by hollow-fibre ultrafiltration. <i>European Journal of Soil Science</i> , 2000, 51, 617-625.	3.9	104
47	Influence of citric acid on the hydration of Portland cement. <i>Cement and Concrete Research</i> , 2009, 39, 275-282.	11.0	104
48	Geochemical Aspects of Phytosiderophore-Promoted Iron Acquisition by Plants. <i>Advances in Agronomy</i> , 2006, 91, 1-46.	5.2	103
49	Solubility of Fe-ettringite ($\text{Ca}_6[\text{Fe}(\text{OH})_6]_2(\text{SO}_4)_3 \cdot 26\text{H}_2\text{O}$). <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1-18.	3.9	101
50	Title is missing!. <i>Journal of Plant Nutrition and Soil Science</i> , 2003, 166, 84-92.	1.9	99
51	Goethite Dissolution in the Presence of Phytosiderophores: Rates, Mechanisms, and the Synergistic Effect of Oxalate. <i>Plant and Soil</i> , 2005, 276, 115-132.	3.7	97
52	C-1s NEXAFS Spectroscopy Reveals Chemical Fractionation of Humic Acid by Cation-Induced Coagulation. <i>Environmental Science & Technology</i> , 2007, 41, 1915-1920.	10.0	97
53	Reduction and Reoxidation of Humic Acid: Influence on Spectroscopic Properties and Proton Binding. <i>Environmental Science & Technology</i> , 2010, 44, 5787-5792.	10.0	95
54	Formation of Zn-rich phyllosilicate, Zn-layered double hydroxide and hydrozincite in contaminated calcareous soils. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5037-5054.	3.9	94

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55	In situ ATR-FTIR spectroscopic analysis of the co-adsorption of orthophosphate and Cd(II) onto hematite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 117, 53-64.	3.9	94
56	Hydrological control of stream water chemistry in a glacial catchment (Damma Glacier, Switzerland). <i>Chemical Geology</i> , 2011, 285, 215-230.	3.3	92
57	Impacts of <i>Shewanella putrefaciens</i> Strain CN-32 Cells and Extracellular Polymeric Substances on the Sorption of As(V) and As(III) on Fe(III)-(Hydr)oxides. <i>Environmental Science & Technology</i> , 2011, 45, 2804-2810.	10.0	91
58	Spatial Distribution and Speciation of Lead around Corroding Bullets in a Shooting Range Soil Studied by Micro-X-ray Fluorescence and Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2005, 39, 4808-4815.	10.0	90
59	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
60	Reaction-Based Model Describing Competitive Sorption and Transport of Cd, Zn, and Ni in an Acidic Soil. <i>Environmental Science & Technology</i> , 2001, 35, 1651-1657.	10.0	89
61	Detrital and pedogenic magnetic mineral phases in the loess/palaeosol sequence at Lingtai (Central China). <i>Journal of Quaternary Science</i> , 2007, 22, 107-114.	0.78	89
62	Soil properties controlling Zn speciation and fractionation in contaminated soils. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5256-5272.	3.9	88
63	Calcium isotopes in a proglacial weathering environment: Damma glacier, Switzerland. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 106-118.	3.9	88
64	Competitive sorption of protons and metal cations onto kaolinite: experiments and modeling. <i>Journal of Colloid and Interface Science</i> , 2005, 282, 270-282.	9.4	87
65	Assessment of Long-Term Performance and Chromate Reduction Mechanisms in a Field Scale Permeable Reactive Barrier. <i>Environmental Science & Technology</i> , 2009, 43, 6786-6792.	10.0	87
66	Bisulfide Reaction with Natural Organic Matter Enhances Arsenite Sorption: Insights from X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2012, 46, 11788-11797.	10.0	87
67	Effect of Humic and Fulvic Acid Concentrations and Ionic Strength on Copper and Lead Binding. <i>Environmental Science & Technology</i> , 2005, 39, 5319-5326.	10.0	86
68	Flocculation of Kaolinitic Soil Clays: Effects of Humic Substances and Iron Oxides. <i>Soil Science Society of America Journal</i> , 1993, 57, 1277-1283.	2.2	83
69	Arsenic in Soil and Irrigation Water Affects Arsenic Uptake by Rice: Complementary Insights from Field and Pot Studies. <i>Environmental Science & Technology</i> , 2010, 44, 8842-8848.	10.0	80
70	Arsenite Binding to Natural Organic Matter: Spectroscopic Evidence for Ligand Exchange and Ternary Complex Formation. <i>Environmental Science & Technology</i> , 2013, 47, 12165-12173.	10.0	80
71	Formation and Dissolution of Single and Mixed Zn and Ni Precipitates in Soil: Evidence from Column Experiments and Extended X-ray Absorption Fine Structure Spectroscopy. <i>Environmental Science & Technology</i> , 2005, 39, 5311-5318.	10.0	79
72	Iron Isotope Fractionation during Pedogenesis in Redoximorphic Soils. <i>Soil Science Society of America Journal</i> , 2007, 71, 1840-1850.	2.2	79

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73	Effect of citrate on the local Fe coordination in ferrihydrite, arsenate binding, and ternary arsenate complex formation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5574-5592.	3.9	79
74	Heavy Metal Release from Contaminated Soils. <i>Journal of Environmental Quality</i> , 2003, 32, 865-875.	2.0	79
75	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
76	Biogeochemical processes and arsenic enrichment around rice roots in paddy soil: results from micro-focused X-ray spectroscopy. <i>European Journal of Soil Science</i> , 2011, 62, 305-317.	3.9	76
77	Mercury Isotope Signatures in Contaminated Sediments as a Tracer for Local Industrial Pollution Sources. <i>Environmental Science & Technology</i> , 2015, 49, 177-185.	10.0	75
78	Redox transformation, solid phase speciation and solution dynamics of copper during soil reduction and reoxidation as affected by sulfate availability. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 385-402.	3.9	73
79	Iron Isotope Fractionation during Fe Uptake and Translocation in Alpine Plants. <i>Environmental Science & Technology</i> , 2010, 44, 6144-6150.	10.0	72
80	Polymerization of Silicate on Hematite Surfaces and Its Influence on Arsenic Sorption. <i>Environmental Science & Technology</i> , 2012, 46, 13235-13243.	10.0	71
81	Temperature-dependent formation of metallic copper and metal sulfide nanoparticles during flooding of a contaminated soil. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 316-332.	3.9	71
82	Characterization of dissolved organic matter in anoxic rock extracts and in situ pore water of the Opalinus Clay. <i>Applied Geochemistry</i> , 2007, 22, 2926-2939.	3.0	70
83	Arsenic Dynamics in Porewater of an Intermittently Irrigated Paddy Field in Bangladesh. <i>Environmental Science & Technology</i> , 2011, 45, 971-976.	10.0	70
84	Arsenic Accumulation in a Paddy Field in Bangladesh: Seasonal Dynamics and Trends over a Three-Year Monitoring Period. <i>Environmental Science & Technology</i> , 2010, 44, 2925-2931.	10.0	69
85	Mercury Isotope Signatures as Tracers for Hg Cycling at the New Idria Hg Mine. <i>Environmental Science & Technology</i> , 2013, 47, 6137-6145.	10.0	69
86	Spatial Distribution and Speciation of Arsenic in Peat Studied with Microfocused X-ray Fluorescence Spectrometry and X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2013, 47, 9706-9714.	10.0	69
87	Impact of Birnessite on Arsenic and Iron Speciation during Microbial Reduction of Arsenic-Bearing Ferrihydrite. <i>Environmental Science & Technology</i> , 2014, 48, 11320-11329.	10.0	69
88	Iron(II)-Catalyzed Iron Atom Exchange and Mineralogical Changes in Iron-rich Organic Freshwater Flocs: An Iron Isotope Tracer Study. <i>Environmental Science & Technology</i> , 2017, 51, 6897-6907.	10.0	69
89	Ferrihydrite Growth and Transformation in the Presence of Ferrous Iron and Model Organic Ligands. <i>Environmental Science & Technology</i> , 2019, 53, 13636-13647.	10.0	68
90	Influence of Arsenate Adsorption to Ferrihydrite, Goethite, and Boehmite on the Kinetics of Arsenate Reduction by <i>Shewanella putrefaciens</i> strain CN-32. <i>Environmental Science & Technology</i> , 2011, 45, 7701-7709.	10.0	67

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91	Source tracing of natural organic matter bound mercury in boreal forest runoff with mercury stable isotopes. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1235-1248.	3.5	67
92	Sorption of Cu and Pb to kaolinite-fulvic acid colloids: Assessment of sorbent interactions. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1675-1686.	3.9	66
93	Sequential Extraction Method for Speciation of Arsenate and Arsenite in Mineral Soils. <i>Analytical Chemistry</i> , 2010, 82, 5534-5540.	6.5	66
94	Reduction and Reoxidation of Humic Acid: Influence on Speciation of Cadmium and Silver. <i>Environmental Science & Technology</i> , 2012, 46, 8808-8816.	10.0	66
95	Copper Redox Transformation and Complexation by Reduced and Oxidized Soil Humic Acid. 1. X-ray Absorption Spectroscopy Study. <i>Environmental Science & Technology</i> , 2013, 47, 10903-10911.	10.0	66
96	Characterization of the pores in hydrous ferric oxide aggregates formed by freezing and thawing. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 163-173.	9.4	65
97	Bacterial Siderophores Promote Dissolution of UO ₂ under Reducing Conditions. <i>Environmental Science & Technology</i> , 2005, 39, 5709-5715.	10.0	65
98	Biotite alteration to halloysite and kaolinite in soil-saprolite profiles developed from mica schist and granite gneiss. <i>Geoderma</i> , 1997, 75, 155-170.	5.1	64
99	Isolation and characterization of dissolved organic matter from the Callovian-Oxfordian formation. <i>Applied Geochemistry</i> , 2007, 22, 1537-1548.	3.0	63
100	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
101	Microbial sulfate reduction decreases arsenic mobilization in flooded paddy soils with high potential for microbial Fe reduction. <i>Environmental Pollution</i> , 2019, 251, 952-960.	7.5	61
102	Time-Dependent Changes of Zinc Speciation in Four Soils Contaminated with Zincite or Sphalerite. <i>Environmental Science & Technology</i> , 2011, 45, 255-261.	10.0	60
103	Electrochemical Analysis of Changes in Iron Oxide Reducibility during Abiotic Ferrihydrite Transformation into Goethite and Magnetite. <i>Environmental Science & Technology</i> , 2019, 53, 3568-3578.	10.0	60
104	The Voltaic Effect as a Novel Mechanism Controlling the Remobilization of Cadmium in Paddy Soils during Drainage. <i>Environmental Science & Technology</i> , 2021, 55, 1750-1758.	10.0	59
105	Aggregation-dependent electron transfer via redox-active biochar particles stimulate microbial ferrihydrite reduction. <i>Science of the Total Environment</i> , 2020, 703, 135515.	8.0	57
106	Mercury Isotope Fractionation during Precipitation of Metacinnabar (Î ² -HgS) and Montroydite (HgO). <i>Environmental Science & Technology</i> , 2015, 49, 4325-4334.	10.0	55
107	Tetra- and Hexavalent Uranium Forms Bidentate-Mononuclear Complexes with Particulate Organic Matter in a Naturally Uranium-Enriched Peatland. <i>Environmental Science & Technology</i> , 2016, 50, 10465-10475.	10.0	55
108	The within-field spatial variation in rice grain Cd concentration is determined by soil redox status and pH during grain filling. <i>Environmental Pollution</i> , 2020, 261, 114151.	7.5	55

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109	Iron and Arsenic Speciation and Distribution in Organic Flocs from Streambeds of an Arsenic-Enriched Peatland. <i>Environmental Science & Technology</i> , 2014, 48, 13218-13228.	10.0	52
110	Decreases in Iron Oxide Reducibility during Microbial Reductive Dissolution and Transformation of Ferrihydrite. <i>Environmental Science & Technology</i> , 2019, 53, 8736-8746.	10.0	52
111	Slow Formation and Dissolution of Zn Precipitates in Soil: A Combined Column-Transport and XAFS Study. <i>Environmental Science & Technology</i> , 2002, 36, 3749-3754.	10.0	51
112	Aggregation Kinetics of Kaolinite~Fulvic Acid Colloids as Affected by the Sorption of Cu and Pb. <i>Environmental Science & Technology</i> , 2005, 39, 807-813.	10.0	50
113	Weathering, soil formation and initial ecosystem evolution on a glacier forefield: a case study from the Damma Glacier, Switzerland. <i>Mineralogical Magazine</i> , 2008, 72, 19-22.	1.4	50
114	Chemical composition of aquatic dissolved organic matter in five boreal forest catchments sampled in spring and fall seasons. <i>Biogeochemistry</i> , 2006, 80, 263-275.	3.5	49
115	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
116	Kinetics of Hg(II) Exchange between Organic Ligands, Goethite, and Natural Organic Matter Studied with an Enriched Stable Isotope Approach. <i>Environmental Science & Technology</i> , 2014, 48, 13207-13217.	10.0	48
117	Sulfidization of Organic Freshwater Flocs from a Minerotrophic Peatland: Speciation Changes of Iron, Sulfur, and Arsenic. <i>Environmental Science & Technology</i> , 2016, 50, 3607-3616.	10.0	47
118	Zinc Fractionation in Contaminated Soils by Sequential and Single Extractions: Influence of Soil Properties and Zinc Content. <i>Journal of Environmental Quality</i> , 2008, 37, 1190-1200.	2.0	46
119	Solid Phase Speciation and Solubility of Vanadium in Highly Weathered Soils. <i>Environmental Science & Technology</i> , 2017, 51, 8254-8262.	10.0	46
120	Characterization of zinc in contaminated soils: complementary insights from isotopic exchange, batch extractions and XAFS spectroscopy. <i>European Journal of Soil Science</i> , 2011, 62, 318-330.	3.9	45
121	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
122	Calcium isotope fractionation in alpine plants. <i>Biogeochemistry</i> , 2013, 112, 373-388.	3.5	44
123	Arsenic Species Formed from Arsenopyrite Weathering along a Contamination Gradient in Circumneutral River Floodplain Soils. <i>Environmental Science & Technology</i> , 2014, 48, 208-217.	10.0	44
124	Modelling sorption and mobility of cadmium and zinc in soils with scaled exchange coefficients. <i>European Journal of Soil Science</i> , 2003, 54, 387-400.	3.9	41
125	Vertical Distribution and Speciation of Trace Metals in Weathering Flotation Residues of a Zinc/Lead Sulfide Mine. <i>Journal of Environmental Quality</i> , 2007, 36, 61-69.	2.0	41
126	Multicomponent transport of major cations predicted from binary adsorption experiments. <i>Journal of Contaminant Hydrology</i> , 2000, 46, 319-338.	3.3	39

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127	Changes in Zn speciation during soil formation from Zn-rich limestones. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5554-5571.	3.9	39
128	Mercury Mobilization in a Flooded Soil by Incorporation into Metallic Copper and Metal Sulfide Nanoparticles. <i>Environmental Science & Technology</i> , 2013, 47, 7739-7746.	10.0	39
129	Effects of Manganese Oxide on Arsenic Reduction and Leaching from Contaminated Floodplain Soil. <i>Environmental Science & Technology</i> , 2016, 50, 9251-9261.	10.0	39
130	Impact of Organic Matter on Microbially-Mediated Reduction and Mobilization of Arsenic and Iron in Arsenic(V)-Bearing Ferrihydrite. <i>Environmental Science & Technology</i> , 2021, 55, 1319-1328.	10.0	39
131	Cation Competition in a Natural Subsurface Material: Modeling of Sorption Equilibria. <i>Environmental Science & Technology</i> , 2000, 34, 2149-2155.	10.0	38
132	Local coordination of Zn in hydroxy-interlayered minerals and implications for Zn retention in soils. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 348-363.	3.9	38
133	Evolution of carbon fluxes during initial soil formation along the forefield of Damma glacier, Switzerland. <i>Biogeochemistry</i> , 2013, 113, 545-561.	3.5	38
134	Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part II: Siderophore-promoted dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1128-1142.	3.9	37
135	Monothioarsenate Transformation Kinetics Determining Arsenic Sequestration by Sulfhydryl Groups of Peat. <i>Environmental Science & Technology</i> , 2018, 52, 7317-7326.	10.0	37
136	Heavy Metal Release from Contaminated Soils. <i>Journal of Environmental Quality</i> , 2003, 32, 865.	2.0	35
137	Copper Redox Transformation and Complexation by Reduced and Oxidized Soil Humic Acid. 2. Potentiometric Titrations and Dialysis Cell Experiments. <i>Environmental Science & Technology</i> , 2013, 47, 10912-10921.	10.0	35
138	Sorption kinetics of strontium in porous hydrous ferric oxide aggregates II. Comparison of experimental results and model predictions. <i>Journal of Colloid and Interface Science</i> , 2005, 283, 29-40.	9.4	34
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