Christian Mikutta

List of Publications by Year
in descending order

40	3,183	201674 27	276875 41
papers	citations	h-index	g-index

41	41	41	3511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Legacy Effects of Sorption Determine the Formation Efficiency of Mineral-Associated Soil Organic Matter. Environmental Science & Technology, 2022, 56, 2044-2053.	10.0	21
2	Interactions of dissolved organic matter with short-range ordered aluminosilicates by adsorption and co-precipitation. Geoderma, 2022, 423, 115960.	5.1	11
3	Mineralogical Controls on the Bioaccessibility of Arsenic in Fe(III)â€“As(V) Coprecipitates. Environmental Science & Technology, 2018, 52, 616-627.	10.0	28
4	Monothioarsenate Transformation Kinetics Determining Arsenic Sequestration by Sulfhydryl Groups of Peat. Environmental Science & Technology, 2018, 52, 7317-7326.	10.0	37
5	Iron(II)-Catalyzed Iron Atom Exchange and Mineralogical Changes in Iron-rich Organic Freshwater Flocs: An Iron Isotope Tracer Study. Environmental Science & Technology, 2017, 51, 6897-6907.	10.0	69
6	Biologically induced formation of realgar deposits in soil. Geochimica Et Cosmochimica Acta, 2017, 218, 237-256.	3.9	23
7	Peat Bogs as Hotspots for Organoarsenical Formation and Persistence. Environmental Science & Technology, 2016, 50, 4314-4323.	10.0	18
8	Effects of Manganese Oxide on Arsenic Reduction and Leaching from Contaminated Floodplain Soil. Environmental Science & Technology, 2016, 50, 9251-9261.	10.0	39
9	Tetra- and Hexavalent Uranium Forms Bidentate-Mononuclear Complexes with Particulate Organic Matter in a Naturally Uranium-Enriched Peatland. Environmental Science & Technology, 2016, 50, 10465-10475.	10.0	55
10	Sulfidization of Organic Freshwater Flocs from a Minerotrophic Peatland: Speciation Changes of Iron, Sulfur, and Arsenic. Environmental Science & Technology, 2016, 50, 3607-3616.	10.0	47
11	Mineralâ€“Organic Associations: Formation, Properties, and Relevance in Soil Environments. Advances in Agronomy, 2015, 130, 1-140.	5.2	801
12	Bioaccessibility of Arsenic in Mining-Impacted Circumneutral River Floodplain Soils. Environmental Science & Technology, 2014, 48, 13468-13477.	10.0	32
13	Impact of Birnessite on Arsenic and Iron Speciation during Microbial Reduction of Arsenic-Bearing Ferrihydrite. Environmental Science & Technology, 2014, 48, 11320-11329.	10.0	69
14	Iron and Arsenic Speciation and Distribution in Organic Flocs from Streambeds of an Arsenic-Enriched Peatland. Environmental Science & Technology, 2014, 48, 13218-13228.	10.0	52
15	Arsenic Species Formed from Arsenopyrite Weathering along a Contamination Gradient in Circumneutral River Floodplain Soils. Environmental Science & Technology, 2014, 48, 208-217.	10.0	44
16	Oxidation of Organosulfur-Coordinated Arsenic and Realgar in Peat: Implications for the Fate of Arsenic. Environmental Science & Technology, 2014, 48, 2281-2289.	10.0	29
17	Arsenite Binding to Sulfhydryl Groups in the Absence and Presence of Ferrihydrite: A Model Study. Environmental Science & Technology, 2014, 48, 3822-3831.	10.0	25
18	Total X-ray scattering, EXAFS, and MÃ¶ssbauer spectroscopy analyses of amorphous ferric arsenate and amorphous ferric phosphate. Geochimica Et Cosmochimica Acta, 2014, 140, 708-719.	3.9	36

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19	Arsenite Binding to Natural Organic Matter: Spectroscopic Evidence for Ligand Exchange and Ternary Complex Formation. Environmental Science & Technology, 2013, 47, 12165-12173.	10.0	80
20	Response to Comment on â€œNew Clues to the Local Atomic Structure of Short-Range Ordered Ferric Arsenate from Extended X-ray Absorption Fine Structure Spectroscopyâ€• Environmental Science & Technology, 2013, 47, 13201-13202.	10.0	14
21	New Clues to the Local Atomic Structure of Short-Range Ordered Ferric Arsenate from Extended X-ray Absorption Fine Structure Spectroscopy. Environmental Science & Technology, 2013, 47, 3122-3131.	10.0	30
22	Spatial Distribution and Speciation of Arsenic in Peat Studied with Microfocused X-ray Fluorescence Spectrometry and X-ray Absorption Spectroscopy. Environmental Science & Technology, 2013, 47, 9706-9714.	10.0	69
23	Synchrotron-based Spectroscopy Reveals First Evidence for Organic Sulfur-coordinated Arsenic in Peat. Chimia, 2012, 66, 877-877.	0.6	2
24	Bisulfide Reaction with Natural Organic Matter Enhances Arsenite Sorption: Insights from X-ray Absorption Spectroscopy. Environmental Science & Technology, 2012, 46, 11788-11797.	10.0	87
25	Arsenic sequestration by organic sulphur in peat. Nature Geoscience, 2012, 5, 66-73.	12.9	201
26	Spectroscopic Evidence for Ternary Complex Formation between Arsenate and Ferric Iron Complexes of Humic Substances. Environmental Science & Technology, 2011, 45, 9550-9557.	10.0	234
27	X-ray absorption spectroscopy study on the effect of hydroxybenzoic acids on the formation and structure of ferrihydrite. Geochimica Et Cosmochimica Acta, 2011, 75, 5122-5139.	3.9	104
28	Effect of citrate on the local Fe coordination in ferrihydrite, arsenate binding, and ternary arsenate complex formation. Geochimica Et Cosmochimica Acta, 2010, 74, 5574-5592.	3.9	79
29	Iron isotope fractionation and atom exchange during sorption of ferrous iron to mineral surfaces. Geochimica Et Cosmochimica Acta, 2009, 73, 1795-1812.	3.9	82
30	Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part II: Siderophore-promoted dissolution. Geochimica Et Cosmochimica Acta, 2008, 72, 1128-1142.	3.9	37
31	Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part I: Characterization. Geochimica Et Cosmochimica Acta, 2008, 72, 1111-1127.	3.9	165
32	Biodegradation of forest floor organic matter bound to minerals via different binding mechanisms. Geochimica Et Cosmochimica Acta, 2007, 71, 2569-2590.	3.9	371
33	Citrate impairs the micropore diffusion of phosphate into pure and C-coated goethite. Geochimica Et Cosmochimica Acta, 2006, 70, 595-607.	3.9	39
34	Restructuring of polygalacturonate on alumina upon hydrationâ€”Effect on phosphate sorption kinetics. Geochimica Et Cosmochimica Acta, 2006, 70, 2957-2969.	3.9	4
35	Kinetics of Phosphate Sorption to Polygalacturonate-coated Goethite. Soil Science Society of America Journal, 2006, 70, 541-549.	2.2	24
36	Stabilization of Organic Matter at Micropores (<2 nm) in Acid Forest Subsoils. Soil Science Society of America Journal, 2006, 70, 2049-2056.	2.2	12

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37	Phosphate Desorption from Goethite in the Presence of Galacturonate, Polygalacturonate, and Maize Mucigel (Zea mays L.). Soil Science Society of America Journal, 2006, 70, 1731-1740.	2.2	9
38	Acid Polysaccharide Coatings on Microporous Goethites. Soil Science Society of America Journal, 2006, 70, 1547-1555.	2.2	3
39	Andosols in Germanyâ€"pedogenesis and properties. Catena, 2004, 56, 67-83.	5.0	39
40	Soil Organic Matter Clogs Mineral Pores. Soil Science Society of America Journal, 2004, 68, 1853-1862.	2.2	56