# 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 | Mineralâ€“Organic Associations: Formation, Properties, and Relevance in Soil Environments. Advances in Agronomy, 2015, 130, 1-140. | 5.2 | 801 |
| 2 | Biodegradation of forest floor organic matter bound to minerals via different binding mechanisms. Geochimica Et Cosmochimica Acta, 2007, 71, 2569-2590. | 3.9 | 371 |
| 3 | 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 |
| 4 | Arsenic sequestration by organic sulphur in peat. Nature Geoscience, 2012, 5, 66-73. | 12.9 | 201 |
| 5 | Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part I: Characterization. Geochimica Et Cosmochimica Acta, 2008, 72, 1111-1127. | 3.9 | 165 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Soil Organic Matter Clogs Mineral Pores. Soil Science Society of America Journal, 2004, 68, 1853-1862. | 2.2 | 56 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Andosols in Germanyâ€"pedogenesis and properties. Catena, 2004, 56, 67-83. | 5.0 | 39 |
| 20 | Citrate impairs the micropore diffusion of phosphate into pure and C-coated goethite. Geochimica Et Cosmochimica Acta, 2006, 70, 595-607. | 3.9 | 39 |
| 21 | Effects of Manganese Oxide on Arsenic Reduction and Leaching from Contaminated Floodplain Soil. Environmental Science & Technology, 2016, 50, 9251-9261. | 10.0 | 39 |
| 22 | Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part II: Siderophore-promoted dissolution. Geochimica Et Cosmochimica Acta, 2008, 72, 1128-1142. | 3.9 | 37 |
| 23 | Monothioarsenate Transformation Kinetics Determining Arsenic Sequestration by Sulfhydryl Groups of Peat. Environmental Science & Technology, 2018, 52, 7317-7326. | 10.0 | 37 |
| 24 | 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 |
| 25 | Bioaccessibility of Arsenic in Mining-Impacted Circumneutral River Floodplain Soils. Environmental Science & Technology, 2014, 48, 13468-13477. | 10.0 | 32 |
| 26 | 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 |
| 27 | 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 |
| 28 | Mineralogical Controls on the Bioaccessibility of Arsenic in Fe(III)â€"As(V) Coprecipitates. Environmental Science & Technology, 2018, 52, 616-627. | 10.0 | 28 |
| 29 | 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 |
| 30 | Kinetics of Phosphate Sorption to Polygalacturonate-coated Goethite. Soil Science Society of America Journal, 2006, 70, 541-549. | 2.2 | 24 |
| 31 | Biologically induced formation of realgar deposits in soil. Geochimica Et Cosmochimica Acta, 2017, 218, 237-256. | 3.9 | 23 |
| 32 | Legacy Effects of Sorption Determine the Formation Efficiency of Mineral-Associated Soil Organic Matter. Environmental Science & Technology, 2022, 56, 2044-2053. | 10.0 | 21 |
| 33 | Peat Bogs as Hotspots for Organoarsenical Formation and Persistence. Environmental Science & Technology, 2016, 50, 4314-4323. | 10.0 | 18 |
| 34 | 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 |
| 35 | 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 |
| 36 | Interactions of dissolved organic matter with short-range ordered aluminosilicates by adsorption and co-precipitation. Geoderma, 2022, 423, 115960. | 5.1 | 11 |

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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 | Restructuring of polygalacturonate on alumina upon hydrationâ€"Effect on phosphate sorption kinetics. Geochimica Et Cosmochimica Acta, 2006, 70, 2957-2969. | 3.9 | 4 |
| 39 | Acid Polysaccharide Coatings on Microporous Goethites. Soil Science Society of America Journal, 2006, 70, 1547-1555. | 2.2 | 3 |
| 40 | Synchrotron-based Spectroscopy Reveals First Evidence for Organic Sulfur-coordinated Arsenic in Peat. Chimia, 2012, 66, 877-877. | 0.6 | 2 |