Mathieu PÃ©drot

List of Publications by Year
in descending order

24 papers	1,222 citations	471509 17 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	1670 citing authors

#	Article	IF	Citations
1	Increasing pH drives organic matter solubilization from wetland soils under reducing conditions. Geoderma, 2009, 154, 13-19.	5.1	284
2	Insights into colloid-mediated trace element release at the soil/water interface. Journal of Colloid and Interface Science, 2008, 325, 187-197.	9.4	142
3	Rare earth element patterns: A tool for identifying trace metal sources during wetland soil reduction. Chemical Geology, 2011, 284, 127-137.	3.3	102
4	How does organic matter constrain the nature, size and availability of Fe nanoparticles for biological reduction?. Journal of Colloid and Interface Science, 2011, 359, 75-85.	9.4	100
5	Effects of Fe competition on REE binding to humic acid: Origin of REE pattern variability in organic waters. Chemical Geology, 2013, 342, 119-127.	3.3	64
6	Unraveling the Stratification of an Iron-Oxidizing Microbial Mat by Metatranscriptomics. PLoS ONE, 2014, 9, e102561.	2.5	59
7	Biogeochemical Factors Affecting Rare Earth Element Distribution in Shallow Wetland Groundwater. Aquatic Geochemistry, 2015, 21, 197-215.	1.3	54
8	Iron-oxidizer hotspots formed by intermittent oxicâ€“anoxic fluid mixing in fractured rocks. Nature Geoscience, 2020, 13, 149-155.	12.9	48
9	Upper soil horizons control the rare earth element patterns in shallow groundwater. Geoderma, 2015, 239-240, 84-96.	5.1	44
10	Interactions between natural organic matter, sulfur, arsenic and iron oxides in re-oxidation compounds within riparian wetlands: NanoSIMS and X-ray adsorption spectroscopy evidences. Science of the Total Environment, 2015, 515-516, 118-128.	8.0	43
11	Dynamic structure of humic substances: Rare earth elements as a fingerprint. Journal of Colloid and Interface Science, 2010, 345, 206-213.	9.4	42
12	Characterization of ironâ€“organic matter nano-aggregate networks through a combination of SAXS/SANS and XAS analyses: impact on As binding. Environmental Science: Nano, 2017, 4, 938-954.	4.3	39
13	Thiol groups controls on arsenite binding by organic matter: New experimental and modeling evidence. Journal of Colloid and Interface Science, 2015, 460, 310-320.	9.4	34
14	Evidence of organic matter control on As oxidation by iron oxides in riparian wetlands. Chemical Geology, 2016, 439, 161-172.	3.3	32
15	Double pH control on humic substance-borne trace elements distribution in soil waters as inferred from ultrafiltration. Journal of Colloid and Interface Science, 2009, 339, 390-403.	9.4	31
16	Kinetic Study on Clogging of a Geothermal Pumping Well Triggered by Mixing-Induced Biogeochemical Reactions. Environmental Science & Technology, 2019, 53, 5848-5857.	10.0	25
17	Modeling rare earth elements binding to humic acids with model VII. Chemical Geology, 2021, 567, 120099.	3.3	20
18	Surface modifications at the oxide/water interface: Implications for Cu binding, solution chemistry and chemical stability of iron oxide nanoparticles. Environmental Pollution, 2020, 257, 113626.	7.5	13

#	Article	IF	Citations
19	Trace element and organic matter mobility impacted by Fe₃O₄-nanoparticle surface coating within wetland soil. Environmental Science: Nano, 2019, 6, 3049-3059.	4.3	10
20	How can interspecific interactions in freshwater benthic macroinvertebrates modify trace element availability from sediment?. Chemosphere, 2020, 245, 125594.	8.2	8
21	Probing the effects of redox conditions and dissolved Fe2+ on nanomagnetite stoichiometry by wet chemistry, XRD, XAS and XMCD. Environmental Science: Nano, 2021, 8, 2098-2107.	4.3	8
22	Unravelling the fate of arsenic during re-oxidation of reduced wetland waters: Experimental constraints and environmental consequences. Comptes Rendus - Geoscience, 2015, 347, 304-314.	1.2	7
23	Prediction of nanomagnetite stoichiometry (Fe(II)/Fe(III)) under contrasting pH and redox conditions. Environmental Science: Nano, 0, , .	4.3	7
24	Robust Method Using Online Steric Exclusion Chromatography-Ultraviolet-Inductively Coupled Plasma Mass Spectrometry To Investigate Nanoparticle Fate and Behavior in Environmental Samples. Analytical Chemistry, 2015, 87, 10346-10353.	6.5	6