

Mathieu PÃ©drot

List of Publications by Year in descending order

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Version: 2024-02-01

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	Probing the effects of redox conditions and dissolved Fe ²⁺ on nanomagnetite stoichiometry by wet chemistry, XRD, XAS and XMCD. <i>Environmental Science: Nano</i> , 2021, 8, 2098-2107.	4.3	8
2	Modeling rare earth elements binding to humic acids with model VII. <i>Chemical Geology</i> , 2021, 567, 120099.	3.3	20
3	Iron-oxidizer hotspots formed by intermittent oxic-anoxic fluid mixing in fractured rocks. <i>Nature Geoscience</i> , 2020, 13, 149-155.	12.9	48
4	How can interspecific interactions in freshwater benthic macroinvertebrates modify trace element availability from sediment?. <i>Chemosphere</i> , 2020, 245, 125594.	8.2	8
5	Surface modifications at the oxide/water interface: Implications for Cu binding, solution chemistry and chemical stability of iron oxide nanoparticles. <i>Environmental Pollution</i> , 2020, 257, 113626.	7.5	13
6	Trace element and organic matter mobility impacted by Fe ₃ O ₄ -nanoparticle surface coating within wetland soil. <i>Environmental Science: Nano</i> , 2019, 6, 3049-3059.	4.3	10
7	Kinetic Study on Clogging of a Geothermal Pumping Well Triggered by Mixing-Induced Biogeochemical Reactions. <i>Environmental Science & Technology</i> , 2019, 53, 5848-5857.	10.0	25
8	Characterization of iron-organic matter nano-aggregate networks through a combination of SAXS/SANS and XAS analyses: impact on As binding. <i>Environmental Science: Nano</i> , 2017, 4, 938-954.	4.3	39
9	Evidence of organic matter control on As oxidation by iron oxides in riparian wetlands. <i>Chemical Geology</i> , 2016, 439, 161-172.	3.3	32
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. <i>Science of the Total Environment</i> , 2015, 515-516, 118-128.	8.0	43
11	Biogeochemical Factors Affecting Rare Earth Element Distribution in Shallow Wetland Groundwater. <i>Aquatic Geochemistry</i> , 2015, 21, 197-215.	1.3	54
12	Unravelling the fate of arsenic during re-oxidation of reduced wetland waters: Experimental constraints and environmental consequences. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 304-314.	1.2	7
13	Robust Method Using Online Steric Exclusion Chromatography-Ultraviolet-Inductively Coupled Plasma Mass Spectrometry To Investigate Nanoparticle Fate and Behavior in Environmental Samples. <i>Analytical Chemistry</i> , 2015, 87, 10346-10353.	6.5	6
14	Thiol groups controls on arsenite binding by organic matter: New experimental and modeling evidence. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 310-320.	9.4	34
15	Upper soil horizons control the rare earth element patterns in shallow groundwater. <i>Geoderma</i> , 2015, 239-240, 84-96.	5.1	44
16	Unraveling the Stratification of an Iron-Oxidizing Microbial Mat by Metatranscriptomics. <i>PLoS ONE</i> , 2014, 9, e102561.	2.5	59
17	Effects of Fe competition on REE binding to humic acid: Origin of REE pattern variability in organic waters. <i>Chemical Geology</i> , 2013, 342, 119-127.	3.3	64
18	Rare earth element patterns: A tool for identifying trace metal sources during wetland soil reduction. <i>Chemical Geology</i> , 2011, 284, 127-137.	3.3	102

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19	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
20	Dynamic structure of humic substances: Rare earth elements as a fingerprint. Journal of Colloid and Interface Science, 2010, 345, 206-213.	9.4	42
21	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
22	Increasing pH drives organic matter solubilization from wetland soils under reducing conditions. Geoderma, 2009, 154, 13-19.	5.1	284
23	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
24	Prediction of nanomagnetite stoichiometry (Fe(II)/Fe(III)) under contrasting pH and redox conditions. Environmental Science: Nano, 0, , .	4.3	7