Jasquelin PeÃ±a

List of Publications by Year
in descending order

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34 papers	1,567 citations	279701 23 h-index	377752 34 g-index
34 all docs	34 docs citations	34 times ranked	1805 citing authors

#	Article	IF	Citations
1	Removing Arsenic from Synthetic Groundwater with Iron Electrocoagulation: An Fe and As K-Edge EXAFS Study. Environmental Science & Technology, 2012, 46, 986-994.	4.6	145
2	Mechanisms of nickel sorption by a bacteriogenic birnessite. Geochimica Et Cosmochimica Acta, 2010, 74, 3076-3089.	1.6	117
3	Biogeochemistry of iron oxidation in a circumneutral freshwater habitat. Chemical Geology, 2009, 260, 149-158.	1.4	82
4	Rate and mechanism of the photoreduction of birnessite (MnO ₂) nanosheets. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4600-4605.	3.3	82
5	Structure of Fe(III) precipitates generated by the electrolytic dissolution of Fe(0) in the presence of groundwater ions. Geochimica Et Cosmochimica Acta, 2014, 127, 285-304.	1.6	81
6	Iron sequestration by transferrin 1 mediates nutritional immunity in <i>Drosophila melanogaster</i>. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7317-7325.	3.3	78
7	Probing the sorption reactivity of the edge surfaces in birnessite nanoparticles using nickel(II). Geochimica Et Cosmochimica Acta, 2015, 164, 191-204.	1.6	75
8	Thallium Sorption onto Manganese Oxides. Environmental Science & Technology, 2019, 53, 13168-13178.	4.6	75
9	Time-Resolved Investigation of Cobalt Oxidation by Mn(III)-Rich Î´-MnO₂ Using Quick X-ray Absorption Spectroscopy. Environmental Science & Technology, 2015, 49, 10867-10876.	4.6	70
10	Copper sorption by the edge surfaces of synthetic birnessite nanoparticles. Chemical Geology, 2015, 396, 196-207.	1.4	64
11	Mn(II) Oxidation in Fenton and Fenton Type Systems: Identification of Reaction Efficiency and Reaction Products. Environmental Science & Technology, 2017, 51, 2982-2991.	4.6	61
12	Dissolution of hausmannite (Mn3O4) in the presence of the trihydroxamate siderophore desferrioxamine B. Geochimica Et Cosmochimica Acta, 2007, 71, 5661-5671.	1.6	52
13	Fe(III) Nucleation in the Presence of Bivalent Cations and Oxyanions Leads to Subnanoscale 7 Ã… Polymers. Environmental Science & Technology, 2014, 48, 11828-11836.	4.6	49
14	Sorption selectivity of birnessite particle edges: a d-PDF analysis of Cd(<scp>ii</scp>) and Pb(<scp>ii</scp>) sorption by Î´-MnO₂and ferrihydrite. Environmental Sciences: Processes and Impacts, 2016, 18, 1030-1041.	1.7	48
15	Crystal growth and aggregation in suspensions of Î´-MnO₂nanoparticles: implications for surface reactivity. Environmental Science: Nano, 2018, 5, 497-508.	2.2	48
16	Formation of macroscopic surface layers on Fe(0) electrocoagulation electrodes during an extended field trial of arsenic treatment. Chemosphere, 2016, 153, 270-279.	4.2	47
17	Variable Ni isotope fractionation between Fe-oxyhydroxides and implications for the use of Ni isotopes as geochemical tracers. Chemical Geology, 2018, 481, 38-52.	1.4	47
18	Influence of manganese abundances on iron and arsenic solubility in rice paddy soils. Geochimica Et Cosmochimica Acta, 2020, 276, 50-69.	1.6	44

#	ARTICLE	IF	CITATIONS
19	Diffusion- and pH-Dependent Reactivity of Layer-Type MnO₂: Reactions at Particle Edges versus Vacancy Sites. Environmental Science & Technology, 2018, 52, 3476-3485.	4.6	40
20	A Comparison of the Sorption Reactivity of Bacteriogenic and Mycogenic Mn Oxide Nanoparticles. Environmental Science & Technology, 2015, 49, 4200-4208.	4.6	31
21	Contaminant loading and competitive access of Pb, Zn and Mn(III) to vacancy sites in biogenic MnO2. Chemical Geology, 2018, 502, 76-87.	1.4	31
22	Role of Bacterial Biomass in the Sorption of Ni by Biomass-Birnessite Assemblages. Environmental Science & Technology, 2011, 45, 7338-7344.	4.6	29
23	Cr(<scp>vi</scp>) uptake and reduction by biogenic iron (oxyhydr)oxides. Environmental Sciences: Processes and Impacts, 2018, 20, 1056-1068.	1.7	28
24	Hexavalent Uranium Diffusion into Soils from Concentrated Acidic and Alkaline Solutions. Environmental Science & Technology, 2004, 38, 3056-3062.	4.6	24
25	Antimonate and arsenate speciation on reactive soil minerals studied by differential pair distribution function analysis. Chemical Geology, 2016, 429, 1-9.	1.4	24
26	Uranium Reduction in Sediments under Diffusion-Limited Transport of Organic Carbon. Environmental Science & Technology, 2005, 39, 7077-7083.	4.6	22
27	Large nickel isotope fractionation caused by surface complexation reactions with hexagonal birnessite. Chemical Geology, 2020, 537, 119481.	1.4	22
28	Surveying Manganese Oxides as Electrode Materials for Harnessing Salinity Gradient Energy. Environmental Science & Technology, 2020, 54, 5746-5754.	4.6	17
29	Socio-Technical Changes for Sustainable Rice Production: Rice Husk Amendment, Conservation Irrigation, and System Changes. Frontiers in Agronomy, 2021, 3, .	1.5	11
30	Coupled As and Mn Redox Transformations in an Fe(0) Electrocoagulation System: Competition for Reactive Oxidants and Sorption Sites. Environmental Science & Technology, 2020, 54, 7165-7174.	4.6	8
31	Origin and stability of uranium accumulation-layers in an Alpine histosol. Science of the Total Environment, 2020, 727, 138368.	3.9	7
32	Bacterial bioreporter detection of arsenic associated with iron oxides. Environmental Sciences: Processes and Impacts, 2018, 20, 913-922.	1.7	4
33	Uranium stability in a large wetland soil core probed by electron acceptors, carbonate amendments and wet-dry cycling in a long-term lysimeter experiment. Science of the Total Environment, 2022, 803, 149783.	3.9	3
34	Reply to the â€˜Comment on â€œCrystal growth and aggregation in suspensions of Î´-MnO2 nanoparticles: implications for surface reactivityâ€â€™ by A. Manceau, Environ. Sci.: Nano, 2018, 5, DOI: 10.1039/C8EN00126J. Environmental Science: Nano, 2018, 5, 2201-2203.	2.2	1