

Martial Taillefert

List of Publications by Year in descending order

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43
papers

2,338
citations

218677

26
h-index

254184

43
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43
all docs

43
docs citations

43
times ranked

2425
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical speciation drives hydrothermal vent ecology. <i>Nature</i> , 2001, 410, 813-816.	27.8	337
2	Uranium Biomineralization as a Result of Bacterial Phosphatase Activity: Insights from Bacterial Isolates from a Contaminated Subsurface. <i>Environmental Science & Technology</i> , 2007, 41, 5701-5707.	10.0	176
3	Aerobic uranium (VI) bioprecipitation by metal-resistant bacteria isolated from radionuclide- and metal-contaminated subsurface soils. <i>Environmental Microbiology</i> , 2007, 9, 3122-3133.	3.8	156
4	Use of voltammetric solid-state (micro)electrodes for studying biogeochemical processes: Laboratory measurements to real time measurements with an in situ electrochemical analyzer (ISEA). <i>Marine Chemistry</i> , 2008, 108, 221-235.	2.3	156
5	<i>Shewanella putrefaciens</i> produces an Fe(III)-solubilizing organic ligand during anaerobic respiration on insoluble Fe(III) oxides. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1760-1767.	3.5	102
6	Speciation, reactivity, and cycling of Fe and Pb in a meromictic lake. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 169-183.	3.9	97
7	The Application of Electrochemical Tools for In Situ Measurements in Aquatic Systems. <i>Electroanalysis</i> , 2000, 12, 401-412.	2.9	95
8	Association of cobalt and manganese in aquatic systems: Chemical and microscopic evidence. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1437-1446.	3.9	89
9	Nonreductive Biomineralization of Uranium(VI) Phosphate Via Microbial Phosphatase Activity in Anaerobic Conditions. <i>Geomicrobiology Journal</i> , 2009, 26, 431-441.	2.0	89
10	The effect of tidal forcing on biogeochemical processes in intertidal salt marsh sediments. <i>Geochemical Transactions</i> , 2007, 8, 6.	0.7	74
11	The effect of pH and natural microbial phosphatase activity on the speciation of uranium in subsurface soils. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5648-5663.	3.9	64
12	Remote in situ voltammetric techniques to characterize the biogeochemical cycling of trace metals in aquatic systems. <i>Journal of Environmental Monitoring</i> , 2008, 10, 30-54.	2.1	62
13	Microbial Mn(IV) reduction requires an initial one-electron reductive solubilization step. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 179-192.	3.9	57
14	The role of anaerobic respiration in the immobilization of uranium through biomineralization of phosphate minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 344-363.	3.9	57
15	Microbial Colonization of an In Situ Sediment Cap and Correlation to Stratified Redox Zones. <i>Environmental Science & Technology</i> , 2009, 43, 66-74.	10.0	48
16	Evidence for a Dynamic Cycle between Mn and Co in the Water Column of a Stratified Lake. <i>Environmental Science & Technology</i> , 2002, 36, 468-476.	10.0	44
17	The role of soluble Fe(III) in the cycling of iron and sulfur in coastal marine sediments. <i>Limnology and Oceanography</i> , 2005, 50, 1129-1141.	3.1	42
18	The flux of soluble organic-iron(III) complexes from sediments represents a source of stable iron(III) to estuarine waters and to the continental shelf. <i>Limnology and Oceanography</i> , 2011, 56, 1811-1823.	3.1	42

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19	Key geochemical factors regulating Mn(IV)-catalyzed anaerobic nitrification in coastal marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 17-33.	3.9	40
20	Siderophores Are Not Involved in Fe(III) Solubilization during Anaerobic Fe(III) Respiration by <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2425-2432.	3.1	39
21	<i>Shewanella oneidensis</i> MR-1 mutants selected for their inability to produce soluble organic-Fe(III) complexes are unable to respire Fe(III) as anaerobic electron acceptor. <i>Environmental Microbiology</i> , 2010, 12, 938-950.	3.8	38
22	Redox Cycling Driven Transformation of Layered Manganese Oxides to Tunnel Structures. <i>Journal of the American Chemical Society</i> , 2020, 142, 2506-2513.	13.7	36
23	VOLTINT: A Matlab®-based program for semi-automated processing of geochemical data acquired by voltammetry. <i>Computers and Geosciences</i> , 2008, 34, 153-162.	4.2	33
24	Spatial and Temporal Evolution of Biogeochemical Processes Following In Situ Capping of Contaminated Sediments. <i>Environmental Science & Technology</i> , 2008, 42, 4113-4120.	10.0	33
25	The effect of riverine discharge on biogeochemical processes in estuarine sediments. <i>Limnology and Oceanography</i> , 2011, 56, 1797-1810.	3.1	28
26	The origin, composition, and reactivity of dissolved iron(III) complexes in coastal organic- and iron-rich sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 152, 72-88.	3.9	27
27	Importance of microbial iron reduction in deep sediments of river-dominated continental-margins. <i>Marine Chemistry</i> , 2016, 178, 22-34.	2.3	26
28	Biom mineralization of U(VI) phosphate promoted by microbially-mediated phytate hydrolysis in contaminated soils. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 27-42.	3.9	26
29	Effect of Manganese Oxide Aging and Structure Transformation on the Kinetics of Thiol Oxidation. <i>Environmental Science & Technology</i> , 2018, 52, 13202-13211.	10.0	26
30	Microbial Fe(II) oxidation by <i>Sideroxydans lithotrophicus</i> ES-1 in the presence of Schlöppnerbrunnen fen-derived humic acids. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	25
31	Benthic alkalinity and dissolved inorganic carbon fluxes in the Rhône River prodelta generated by decoupled aerobic and anaerobic processes. <i>Biogeosciences</i> , 2020, 17, 13-33.	3.3	25
32	Geochemical controls of the microbially mediated redox cycling of uranium and iron. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 431-449.	3.9	23
33	Development of a rate law for arsenite oxidation by manganese oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 251-267.	3.9	21
34	Microbial manganese(III) reduction fuelled by anaerobic acetate oxidation. <i>Environmental Microbiology</i> , 2017, 19, 3475-3486.	3.8	17
35	Early diagenesis in the sediments of the Congo deep-sea fan dominated by massive terrigenous deposits: Part II – Iron-sulfur coupling. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 142, 151-166.	1.4	17
36	Development of single-step liquid chromatography methods with ultraviolet detection for the measurement of inorganic anions in marine waters. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 563-576.	2.0	15

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37	Mechanistic investigation of Fe(III) oxide reduction by low molecular weight organic sulfur species. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 173-188.	3.9	15
38	Differential manganese and iron recycling and transport in continental margin sediments of the Northern Gulf of Mexico. <i>Marine Chemistry</i> , 2021, 229, 103908.	2.3	12
39	Seasonal and topographic variations in porewaters of a southeastern USA salt marsh as revealed by voltammetric profiling. <i>Geochemical Transactions</i> , 2001, 2, 104.	0.7	11
40	Effect of arsenic concentration on microbial iron reduction and arsenic speciation in an iron-rich freshwater sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6008-6021.	3.9	11
41	Early Diagenesis in the Hypoxic and Acidified Zone of the Northern Gulf of Mexico: Is Organic Matter Recycling in Sediments Disconnected From the Water Column?. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
42	Arsenic Diagenesis at the Sediment-Water Interface of a Recently Flooded Freshwater Sediment. <i>ACS Symposium Series</i> , 2005, , 220-234.	0.5	2
43	Variations in sediment production of dissolved iron across a continental margin not dominated by major upwelling or riverine inputs. <i>Marine Chemistry</i> , 2020, 220, 103750.	2.3	1