

Alain Manceau

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

6,508
citations

46
h-index

80
g-index

88
ext. papers

7,179
ext. citations

5.7
avg, IF

5.77
L-index

#	Paper	IF	Citations
84	Comment on "New insights into the biomineralization of mercury selenide nanoparticles through stable isotope analysis in giant petrel tissues".. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128583	12.8	0
83	Mercury in the tissues of five cephalopods species: First data on the nervous system. <i>Science of the Total Environment</i> , 2021 , 759, 143907	10.2	2
82	Isotope Fractionation from In Vivo Methylmercury Detoxification in Waterbirds. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 990-997	3.2	8
81	Chemical Forms of Mercury in Blue Marlin Billfish: Implications for Human Exposure. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 405-411	11	7
80	Chemical Forms of Mercury in Pilot Whales Determined from Species-Averaged Mercury Isotope Signatures. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 1591-1599	3.2	4
79	Cellular remains in a ~3.42-billion-year-old seafloor hydrothermal environment. <i>Science Advances</i> , 2021 , 7,	14.3	6
78	In Vivo Formation of HgSe Nanoparticles and Hg-Tetraselenolate Complex from Methylmercury in Seabirds-Implications for the Hg-Se Antagonism. <i>Environmental Science & Technology</i> , 2021 , 55, 1515-1526 ³⁰	10.3	30
77	Nature of High- and Low-Affinity Metal Surface Sites on Birnessite Nanosheets. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 66-76	3.2	1
76	Acute Toxicity of Divalent Mercury to Bacteria Explained by the Formation of Dicysteinate and Tetracysteinate Complexes Bound to Proteins in and. <i>Environmental Science & Technology</i> , 2021 , 55, 3612-3623	10.3	5
75	Mercury Isotope Fractionation by Internal Demethylation and Biomineralization Reactions in Seabirds: Implications for Environmental Mercury Science. <i>Environmental Science & Technology</i> , 2021 , 55, 13942-13952	10.3	5
74	Demethylation of Methylmercury in Bird, Fish, and Earthworm. <i>Environmental Science & Technology</i> , 2021 , 55, 1527-1534	10.3	28
73	Chemical Information in the L X-ray Absorption Spectra of Molybdenum Compounds by High-Energy-Resolution Detection and Density Functional Theory.. <i>Inorganic Chemistry</i> , 2021 ,	5.1	1
72	TEXS: in-vacuum tender X-ray emission spectrometer with 11 Johansson crystal analyzers. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 813-826	2.4	12
71	The Mode of Incorporation of As(-I) and Se(-I) in Natural Pyrite Revisited. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 379-390	3.2	6
70	The chemical species of mercury accumulated by <i>Pseudomonas idrijaensis</i> , a bacterium from a rock of the Idrija mercury mine, Slovenia. <i>Chemosphere</i> , 2020 , 248, 126002	8.4	4
69	Divalent Mercury in Dissolved Organic Matter Is Bioavailable to Fish and Accumulates as Dithiolate and Tetrathiolate Complexes. <i>Environmental Science & Technology</i> , 2019 , 53, 4880-4891	10.3	24
68	Evidence for syngenetic micro-inclusions of As ³⁺ - and As ⁵⁺ -containing Cu sulfides in hydrothermal pyrite. <i>American Mineralogist</i> , 2019 , 104, 300-306	2.9	4

67	Revealing the Chemical Form of Invisible Gold in Natural Arsenian Pyrite and Arsenopyrite with High Energy-Resolution X-ray Absorption Spectroscopy. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1905-1914	3.2	17
66	Comment on Roles of Hydration and Magnetism on the Structure of Ferrihydrite from First Principles <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1576-1580	3.2	6
65	Thiols in Natural Organic Matter: Molecular Forms, Acidity, and Reactivity with Mercury(II) from First-Principles Calculations and High Energy-Resolution X-ray Absorption Near-Edge Structure Spectroscopy. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 2795-2807	3.2	4
64	Mercury(II) Binding to Metallothionein in <i>Mytilus edulis</i> revealed by High Energy-Resolution XANES Spectroscopy. <i>Chemistry - A European Journal</i> , 2019 , 25, 997-1009	4.8	18
63	Mercury Trithiolate Binding (HgS) to a de Novo Designed Cyclic Decapeptide with Three Preoriented Cysteine Side Chains. <i>Inorganic Chemistry</i> , 2018 , 57, 2705-2713	5.1	9
62	Biogenesis of Mercury-Sulfur Nanoparticles in Plant Leaves from Atmospheric Gaseous Mercury. <i>Environmental Science & Technology</i> , 2018 , 52, 3935-3948	10.3	57
61	Comment on Crystal growth and aggregation in suspensions of MnO ₂ nanoparticles: implications for surface reactivity by F. F. Marafatto, B. Lanson and J. Peñ, <i>Environ. Sci.: Nano</i> , 2018 , 5, 497. <i>Environmental Science: Nano</i> , 2018 , 5, 2198-2200	7.1	2
60	Chemical Forms of Mercury in Pyrite: Implications for Predicting Mercury Releases in Acid Mine Drainage Settings. <i>Environmental Science & Technology</i> , 2018 , 52, 10286-10296	10.3	27
59	High energy-resolution x-ray spectroscopy at ultra-high dilution with spherically bent crystal analyzers of 0.5 m radius. <i>Review of Scientific Instruments</i> , 2017 , 88, 013108	1.7	49
58	Nucleation of mercury sulfide by dealkylation. <i>Scientific Reports</i> , 2016 , 6, 39359	4.9	13
57	Chemical Forms of Mercury in Human Hair Reveal Sources of Exposure. <i>Environmental Science & Technology</i> , 2016 , 50, 10721-10729	10.3	48
56	Comment on Molecular controls on Cu and Zn isotopic fractionation in Fe-Mn crusts by Little et al.. <i>Earth and Planetary Science Letters</i> , 2015 , 411, 310-312	5.3	9
55	Formation of Mercury Sulfide from Hg(II)-Thiolate Complexes in Natural Organic Matter. <i>Environmental Science & Technology</i> , 2015 , 49, 9787-96	10.3	85
54	Structure, Bonding, and Stability of Mercury Complexes with Thiolate and Thioether Ligands from High-Resolution XANES Spectroscopy and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2015 , 54, 11776-91	5.1	40
53	High-level ab initio calculation of the stability of mercury thiolate complexes. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	13
52	Mineralogy and crystal chemistry of Mn, Fe, Co, Ni, and Cu in a deep-sea Pacific polymetallic nodule. <i>American Mineralogist</i> , 2014 , 99, 2068-2083	2.9	74
51	Estimating the number of pure chemical components in a mixture by X-ray absorption spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 1140-7	2.4	31
50	PDF analysis of ferrihydrite: Critical assessment of the under-constrained akdalaite model. <i>American Mineralogist</i> , 2014 , 99, 102-108	2.9	23

49	Short-range and long-range order of phylломanganate nanoparticles determined using high-energy X-ray scattering. <i>Journal of Applied Crystallography</i> , 2013 , 46, 193-209	3.8	57
48	Incorporation of Ge in ferrihydrite: Implications for the structure of ferrihydrite. <i>American Mineralogist</i> , 2013 , 98, 848-858	2.9	16
47	Determination of Mn valence states in mixed-valent manganates by XANES spectroscopy. <i>American Mineralogist</i> , 2012 , 97, 816-827	2.9	200
46	Zn sorption modifies dynamically the layer and interlayer structure of vernadite. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 85, 302-313	5.5	93
45	Quantitative analysis of sulfur functional groups in natural organic matter by XANES spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 99, 206-223	5.5	110
44	Critical evaluation of the revised akdalaite model for ferrihydriteReply. <i>American Mineralogist</i> , 2012 , 97, 255-256	2.9	6
43	Mercury-Sequestering Pseudopeptides with a Tris(cysteine) Environment in Water. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3835-3843	2.3	22
42	Metallothionein-like multinuclear clusters of mercury(II) and sulfur in peat. <i>Environmental Science & Technology</i> , 2011 , 45, 7298-306	10.3	54
41	Structure of nanocrystalline phylломanganates produced by freshwater fungi. <i>American Mineralogist</i> , 2010 , 95, 1608-1616	2.9	118
40	The nature of Cu bonding to natural organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 2556-2589	5.9	140
39	Zinc distribution and speciation in Arabidopsis halleri x Arabidopsis lyrata progenies presenting various zinc accumulation capacities. <i>New Phytologist</i> , 2009 , 184, 581-595	9.8	97
38	Formation of ZnIIa phylломanganate nanoparticles in grass roots. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 2478-2490	5.5	67
37	Formation of metallic copper nanoparticles at the soil-root interface. <i>Environmental Science & Technology</i> , 2008 , 42, 1766-72	10.3	194
36	Relationships between Hg(II)-S bond distance and Hg(II) coordination in thiolates. <i>Dalton Transactions</i> , 2008 , 1421-5	4.3	64
35	Structure of the synthetic K-rich phylломanganate birnessite obtained by high-temperature decomposition of KMnO4: Substructures of K-rich birnessite from 1000 °C experiment. <i>Microporous and Mesoporous Materials</i> , 2007 , 98, 267-282	5.3	58
34	Natural speciation of Ni, Zn, Ba, and As in ferromanganese coatings on quartz using X-ray fluorescence, absorption, and diffraction. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 95-128	5.5	174
33	Chemical and structural control of the partitioning of Co, Ce, and Pb in marine ferromanganese oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 984-1008	5.5	207
32	Ba and Ni speciation in a nodule of binary Mn oxide phase composition from Lake Baikal. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 1967-1981	5.5	63

31	Formation of todorokite from vernadite in Ni-rich hemipelagic sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 5698-5716	5.5	120
30	Structural model for the biogenic Mn oxide produced by <i>Pseudomonas putida</i> . <i>American Mineralogist</i> , 2006 , 91, 489-502	2.9	244
29	Zinc sorption to biogenic hexagonal-birnessite particles within a hydrated bacterial biofilm. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 27-43	5.5	155
28	Zinc mobility and speciation in soil covered by contaminated dredged sediment using micrometer-scale and bulk-averaging X-ray fluorescence, absorption and diffraction techniques. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 1173-1198	5.5	84
27	Natural speciation of Mn, Ni, and Zn at the micrometer scale in a clayey paddy soil using X-ray fluorescence, absorption, and diffraction. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4007-4034	5.5	91
26	Zinc sorption by a bacterial biofilm. <i>Environmental Science & Technology</i> , 2005 , 39, 8288-94	10.3	99
25	Nanometer-sized, divalent-Mn, hydrous silicate domains in geothermal brine precipitates. <i>American Mineralogist</i> , 2005 , 90, 371-381	2.9	9
24	Beamline 10.3.2 at ALS: a hard X-ray microprobe for environmental and materials sciences. <i>Journal of Synchrotron Radiation</i> , 2004 , 11, 239-47	2.4	221
23	Natural speciation of Zn at the micrometer scale in a clayey soil using X-ray fluorescence, absorption, and diffraction. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 2467-2483	5.5	142
22	Mn, Fe, Zn and As speciation in a fast-growing ferromanganese marine nodule. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 3125-3136	5.5	128
21	Analysis of the Major Fe Bearing Mineral Phases in Recent Lake Sediments by EXAFS Spectroscopy. <i>Aquatic Geochemistry</i> , 2003 , 9, 1-17	1.7	19
20	Structure of Synthetic K-rich Birnessite Obtained by High-Temperature Decomposition of KMnO ₄ . I. Two-Layer Polytype from 800 °C Experiment. <i>Chemistry of Materials</i> , 2003 , 15, 4666-4678	9.6	146
19	Molecular-scale speciation of Zn and Ni in soil ferromanganese nodules from loess soils of the Mississippi Basin. <i>Environmental Science & Technology</i> , 2003 , 37, 75-80	10.3	144
18	7. Quantitative Speciation of Heavy Metals in Soils and Sediments by Synchrotron X-ray Techniques 2002 , 341-428		96
17	Structure of heavy-metal sorbed birnessite: Part 1. Results from X-ray diffraction. <i>American Mineralogist</i> , 2002 , 87, 1631-1645	2.9	94
16	Structure of heavy-metal sorbed birnessite: Part 2. Results from electron diffraction. <i>American Mineralogist</i> , 2002 , 87, 1646-1661	2.9	38
15	Structure of synthetic Na-birnessite: Evidence for a triclinic one-layer unit cell. <i>American Mineralogist</i> , 2002 , 87, 1662-1671	2.9	124
14	Deciphering Ni sequestration in soil ferromanganese nodules by combining X-ray fluorescence, absorption, and diffraction at micrometer scales of resolution. <i>American Mineralogist</i> , 2002 , 87, 1494-1499	3.9	78

13	Arsenic(III) oxidation by birnessite and precipitation of manganese(II) arsenate. <i>Environmental Science & Technology</i> , 2002 , 36, 493-500	10.3	254
12	Quantitative Zn speciation in a contaminated dredged sediment by EPIXE, ESXRF, EXAFS spectroscopy and principal component analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 1549-1567	5.5	137
11	Structure of heavy metal sorbed birnessite. Part III: Results from powder and polarized extended X-ray absorption fine structure spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 2639-2663	5.5	219
10	Accumulation forms of Zn and Pb in <i>Phaseolus vulgaris</i> in the presence and absence of EDTA. <i>Environmental Science & Technology</i> , 2001 , 35, 2854-9	10.3	164
9	Structure of H-exchanged hexagonal birnessite and its mechanism of formation from Na-rich monoclinic buserite at low pH. <i>American Mineralogist</i> , 2000 , 85, 826-838	2.9	154
8	Structure of synthetic monoclinic Na-rich birnessite and hexagonal birnessite; II, Results from chemical studies and EXAFS spectroscopy. <i>American Mineralogist</i> , 1997 , 82, 962-978	2.9	202
7	Structure of synthetic monoclinic Na-rich birnessite and hexagonal birnessite; I, Results from X-ray diffraction and selected-area electron diffraction. <i>American Mineralogist</i> , 1997 , 82, 946-961	2.9	287
6	Removal of Selenocyanate in Water by Precipitation: Characterization of Copper-Belenium Precipitate by X-ray Diffraction, Infrared, and X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 1997 , 31, 968-976	10.3	34
5	Structure and Mechanisms of Formation of FeOOH(NO ₃) Oligomers in the Early Stages of Hydrolysis. <i>Langmuir</i> , 1997 , 13, 3240-3246	4	53
4	Structural mechanism of Co (super 2+) oxidation by the phylломanganate buserite. <i>American Mineralogist</i> , 1997 , 82, 1150-1175	2.9	189
3	Reaction Rates and Products of Manganese Oxidation at the Sediment-Water Interface. <i>Advances in Chemistry Series</i> , 1995 , 111-134		46
2	Structure and Stability of Cd ²⁺ Surface Complexes on Ferric Oxides. <i>Journal of Colloid and Interface Science</i> , 1994 , 168, 73-86	9.3	194
1	Structure and mechanisms of formation of iron oxide hydroxide (chloride) polymers. <i>Langmuir</i> , 1994 , 10, 316-319	4	130