Alain Manceau

List of Publications by Citations

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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	6,508	46	80
papers	citations	h-index	g-index
88	7,179	5.7	5.77
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
84	Structure of synthetic monoclinic Na-rich birnessite and hexagonal birnessite; I, Results from X-ray diffraction and selected-area electron diffraction. *American Mineralogist*, **1997**, 82, 946-961	2.9	287
83	Arsenic(III) oxidation by birnessite and precipitation of manganese(II) arsenate. *Environmental Science & Technology*, **2002**, 36, 493-500	10.3	254
82	Structural model for the biogenic Mn oxide produced by Pseudomonas putida. *American Mineralogist*, **2006**, 91, 489-502	2.9	244
81	Beamline 10.3.2 at ALS: a hard X-ray microprobe for environmental and materials sciences. *Journal of Synchrotron Radiation*, **2004**, 11, 239-47	2.4	221
80	Structure of heavy metal sorbed birnessite. Part III: Results from powder and polarized extended X-ray absorption fine structure spectroscopy. *Geochimica Et Cosmochimica Acta*, **2002**, 66, 2639-2663	5.5	219
79	Chemical and structural control of the partitioning of Co, Ce, and Pb in marine ferromanganese oxides. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 984-1008	5.5	207
78	Structure of synthetic monoclinic Na-rich birnessite and hexagonal birnessite; II, Results from chemical studies and EXAFS spectroscopy. *American Mineralogist*, **1997**, 82, 962-978	2.9	202
77	Determination of Mn valence states in mixed-valent manganates by XANES spectroscopy. *American Mineralogist*, **2012**, 97, 816-827	2.9	200
76	Formation of metallic copper nanoparticles at the soil-root interface. *Environmental Science & Technology*, **2008**, 42, 1766-72	10.3	194
75	Structure and Stability of Cd2+ Surface Complexes on Ferric Oxides. *Journal of Colloid and Interface Science*, **1994**, 168, 73-86	9.3	194
74	Structural mechanism of Co (super 2+) oxidation by the phyllomanganate buserite. *American Mineralogist*, **1997**, 82, 1150-1175	2.9	189
73	Natural speciation of Ni, Zn, Ba, and As in ferromanganese coatings on quartz using X-ray fluorescence, absorption, and diffraction. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 95-128	5.5	174
72	Accumulation forms of Zn and Pb in Phaseolus vulgaris in the presence and absence of EDTA. *Environmental Science & Technology*, **2001**, 35, 2854-9	10.3	164
71	Zinc sorption to biogenic hexagonal-birnessite particles within a hydrated bacterial biofilm. *Geochimica Et Cosmochimica Acta*, **2006**, 70, 27-43	5.5	155
70	Structure of H-exchanged hexagonal birnessite and its mechanism of formation from Na-rich monoclinic buserite at low pH. *American Mineralogist*, **2000**, 85, 826-838	2.9	154
69	Structure of Synthetic K-rich Birnessite Obtained by High-Temperature Decomposition of KMnO4. I. Two-Layer Polytype from 800 °C Experiment. *Chemistry of Materials*, **2003**, 15, 4666-4678	9.6	146
68	Molecular-scale speciation of Zn and Ni in soil ferromanganese nodules from loess soils of the Mississippi Basin. *Environmental Science & Technology*, **2003**, 37, 75-80	10.3	144

67	Natural speciation of Zn at the micrometer scale in a clayey soil using X-ray fluorescence, absorption, and diffraction. *Geochimica Et Cosmochimica Acta*, **2004**, 68, 2467-2483	5.5	142
66	The nature of Cu bonding to natural organic matter. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 2556-2580	5.5	140
65	Quantitative Zn speciation in a contaminated dredged sediment by µPIXE, µSXRF, EXAFS spectroscopy and principal component analysis. *Geochimica Et Cosmochimica Acta*, **2002**, 66, 1549-1567	5.5	137
64	Structure and mechanisms of formation of iron oxide hydroxide (chloride) polymers. *Langmuir*, **1994**, 10, 316-319	4	130
63	Mn, Fe, Zn and As speciation in a fast-growing ferromanganese marine nodule. *Geochimica Et Cosmochimica Acta*, **2004**, 68, 3125-3136	5.5	128
62	Structure of synthetic Na-birnessite: Evidence for a triclinic one-layer unit cell. *American Mineralogist*, **2002**, 87, 1662-1671	2.9	124
61	Formation of todorokite from vernadite in Ni-rich hemipelagic sediments. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 5698-5716	5.5	120
60	Structure of nanocrystalline phyllomanganates produced by freshwater fungi. *American Mineralogist*, **2010**, 95, 1608-1616	2.9	118
59	Quantitative analysis of sulfur functional groups in natural organic matter by XANES spectroscopy. *Geochimica Et Cosmochimica Acta*, **2012**, 99, 206-223	5.5	110
58	Zinc sorption by a bacterial biofilm. *Environmental Science & Technology*, **2005**, 39, 8288-94	10.3	99
57	Zinc distribution and speciation in Arabidopsis halleri x Arabidopsis lyrata progenies presenting various zinc accumulation capacities. *New Phytologist*, **2009**, 184, 581-595	9.8	97
56	7. Quantitative Speciation of Heavy Metals in Soils and Sediments by Synchrotron X-ray Techniques **2002**, 341-428		96
55	Structure of heavy-metal sorbed birnessite: Part 1. Results from X-ray diffraction. *American Mineralogist*, **2002**, 87, 1631-1645	2.9	94
54	Zn sorption modifies dynamically the layer and interlayer structure of vernadite. *Geochimica Et Cosmochimica Acta*, **2012**, 85, 302-313	5.5	93
53	Natural speciation of Mn, Ni, and Zn at the micrometer scale in a clayey paddy soil using X-ray fluorescence, absorption, and diffraction. *Geochimica Et Cosmochimica Acta*, **2005**, 69, 4007-4034	5.5	91
52	Formation of Mercury Sulfide from Hg(II)-Thiolate Complexes in Natural Organic Matter. *Environmental Science & Technology*, **2015**, 49, 9787-96	10.3	85
51	Zinc mobility and speciation in soil covered by contaminated dredged sediment using micrometer-scale and bulk-averaging X-ray fluorescence, absorption and diffraction techniques. *Geochimica Et Cosmochimica Acta*, **2005**, 69, 1173-1198	5.5	84
50	Deciphering Ni sequestration in soil ferromanganese nodules by combining X-ray fluorescence, absorption, and diffraction at micrometer scales of resolution. *American Mineralogist*, **2002**, 87, 1494-1499	2.9	78

49	Mineralogy and crystal chemistry of Mn, Fe, Co, Ni, and Cu in a deep-sea Pacific polymetallic nodule. *American Mineralogist*, **2014**, 99, 2068-2083	2.9	74
48	Formation of Zn□Ca phyllomanganate nanoparticles in grass roots. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 2478-2490	5.5	67
47	Relationships between Hg(II)-S bond distance and Hg(II) coordination in thiolates. *Dalton Transactions*, **2008**, 1421-5	4.3	64
46	Ba and Ni speciation in a nodule of binary Mn oxide phase composition from Lake Baikal. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 1967-1981	5.5	63
45	Structure of the synthetic K-rich phyllomanganate birnessite obtained by high-temperature decomposition of KMnO4: Substructures of K-rich birnessite from 1000 □C experiment. *Microporous and Mesoporous Materials*, **2007**, 98, 267-282	5.3	58
44	Biogenesis of Mercury-Sulfur Nanoparticles in Plant Leaves from Atmospheric Gaseous Mercury. *Environmental Science & Technology*, **2018**, 52, 3935-3948	10.3	57
43	Short-range and long-range order of phyllomanganate nanoparticles determined using high-energy X-ray scattering. *Journal of Applied Crystallography*, **2013**, 46, 193-209	3.8	57
42	Metallothionein-like multinuclear clusters of mercury(II) and sulfur in peat. *Environmental Science & Technology*, **2011**, 45, 7298-306	10.3	54
41	Structure and Mechanisms of Formation of FeOOH(NO3) Oligomers in the Early Stages of Hydrolysis. *Langmuir*, **1997**, 13, 3240-3246	4	53
40	High energy-resolution x-ray spectroscopy at ultra-high dilution with spherically bent crystal analyzers of 0.5 m radius. *Review of Scientific Instruments*, **2017**, 88, 013108	1.7	49
39	Chemical Forms of Mercury in Human Hair Reveal Sources of Exposure. *Environmental Science & Technology*, **2016**, 50, 10721-10729	10.3	48
38	Reaction Rates and Products of Manganese Oxidation at the Sediment-Water Interface. *Advances in Chemistry Series*, **1995**, 111-134		46
37	Structure, Bonding, and Stability of Mercury Complexes with Thiolate and Thioether Ligands from High-Resolution XANES Spectroscopy and First-Principles Calculations. *Inorganic Chemistry*, **2015**, 54, 11776-91	5.1	40
36	Structure of heavy-metal sorbed birnessite: Part 2. Results from electron diffraction. *American Mineralogist*, **2002**, 87, 1646-1661	2.9	38
35	Removal of Selenocyanate in Water by Precipitation: Characterization of Copper□Selenium Precipitate by X-ray Diffraction, Infrared, and X-ray Absorption Spectroscopy. *Environmental Science & Technology*, **1997**, 31, 968-976	10.3	34
34	Estimating the number of pure chemical components in a mixture by X-ray absorption spectroscopy. *Journal of Synchrotron Radiation*, **2014**, 21, 1140-7	2.4	31
33	In Vivo Formation of HgSe Nanoparticles and Hg-Tetraselenolate Complex from Methylmercury in Seabirds-Implications for the Hg-Se Antagonism. *Environmental Science & Technology*, **2021**, 55, 1515-1526	10.3	30
32	Demethylation of Methylmercury in Bird, Fish, and Earthworm. *Environmental Science & Technology*, **2021**, 55, 1527-1534	10.3	28

31	Chemical Forms of Mercury in Pyrite: Implications for Predicting Mercury Releases in Acid Mine Drainage Settings. *Environmental Science & Technology*, **2018**, 52, 10286-10296	10.3	27
30	Divalent Mercury in Dissolved Organic Matter Is Bioavailable to Fish and Accumulates as Dithiolate and Tetrathiolate Complexes. *Environmental Science & Technology*, **2019**, 53, 4880-4891	10.3	24
29	PDF analysis of ferrihydrite: Critical assessment of the under-constrained akdalaite model. *American Mineralogist*, **2014**, 99, 102-108	2.9	23
28	Mercury-Sequestering Pseudopeptides with a Tris(cysteine) Environment in Water. *European Journal of Inorganic Chemistry*, **2012**, 2012, 3835-3843	2.3	22
27	Analysis of the Major Fe Bearing Mineral Phases in Recent Lake Sediments by EXAFS Spectroscopy. *Aquatic Geochemistry*, **2003**, 9, 1-17	1.7	19
26	Mercury(II) Binding to Metallothionein in Mytilus edulis revealed by High Energy-Resolution XANES Spectroscopy. *Chemistry - A European Journal*, **2019**, 25, 997-1009	4.8	18
25	Revealing the Chemical Form of "Invisible" Gold in Natural Arsenian Pyrite and Arsenopyrite with High Energy-Resolution X-ray Absorption Spectroscopy. *ACS Earth and Space Chemistry*, **2019**, 3, 1905-1914	3.2	17
24	Incorporation of Ge in ferrihydrite: Implications for the structure of ferrihydrite. *American Mineralogist*, **2013**, 98, 848-858	2.9	16
23	High-level ab initio calculation of the stability of mercury–thiolate complexes. *Theoretical Chemistry Accounts*, **2014**, 133, 1	1.9	13
22	Nucleation of mercury sulfide by dealkylation. *Scientific Reports*, **2016**, 6, 39359	4.9	13
21	TEXS: in-vacuum tender X-ray emission spectrometer with 11 Johansson crystal analyzers. *Journal of Synchrotron Radiation*, **2020**, 27, 813-826	2.4	12
20	Comment on "Molecular controls on Cu and Zn isotopic fractionation in Fe–Mn crusts" by Little et al.. *Earth and Planetary Science Letters*, **2015**, 411, 310-312	5.3	9
19	Mercury Trithiolate Binding (HgS) to a de Novo Designed Cyclic Decapeptide with Three Preoriented Cysteine Side Chains. *Inorganic Chemistry*, **2018**, 57, 2705-2713	5.1	9
18	Nanometer-sized, divalent-Mn, hydrous silicate domains in geothermal brine precipitates. *American Mineralogist*, **2005**, 90, 371-381	2.9	9
17	Isotope Fractionation from In Vivo Methylmercury Detoxification in Waterbirds. *ACS Earth and Space Chemistry*, **2021**, 5, 990-997	3.2	8
16	Chemical Forms of Mercury in Blue Marlin Billfish: Implications for Human Exposure. *Environmental Science and Technology Letters*, **2021**, 8, 405-411	11	7
15	The Mode of Incorporation of As(-I) and Se(-I) in Natural Pyrite Revisited. *ACS Earth and Space Chemistry*, **2020**, 4, 379-390	3.2	6
14	Comment on "Roles of Hydration and Magnetism on the Structure of Ferrihydrite from First Principles". *ACS Earth and Space Chemistry*, **2019**, 3, 1576-1580	3.2	6

13	Critical evaluation of the revised akdalaite model for ferrihydriteReply. *American Mineralogist*, **2012**, 97, 255-256	2.9	6
12	Cellular remains in a ~3.42-billion-year-old subseafloor hydrothermal environment. *Science Advances*, **2021**, 7,	14.3	6
11	Acute Toxicity of Divalent Mercury to Bacteria Explained by the Formation of Dicysteinate and Tetracysteinate Complexes Bound to Proteins in and. *Environmental Science & Technology*, **2021**, 55, 3612-3623	10.3	5
10	Mercury Isotope Fractionation by Internal Demethylation and Biomineralization Reactions in Seabirds: Implications for Environmental Mercury Science. *Environmental Science & Technology*, **2021**, 55, 13942-13952	10.3	5
9	Evidence for syngenetic micro-inclusions of As^{3+}- and As^{5+}-containing Cu sulfides in hydrothermal pyrite. *American Mineralogist*, **2019**, 104, 300-306	2.9	4
8	The chemical species of mercury accumulated by Pseudomonas idrijaensis, a bacterium from a rock of the Idrija mercury mine, Slovenia. *Chemosphere*, **2020**, 248, 126002	8.4	4
7	Chemical Forms of Mercury in Pilot Whales Determined from Species-Averaged Mercury Isotope Signatures. *ACS Earth and Space Chemistry*, **2021**, 5, 1591-1599	3.2	4
6	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. *ACS Earth and Space Chemistry*, **2019**, 3, 2795-2807	3.2	4
5	Comment on Crystal growth and aggregation in suspensions of MnO_2 nanoparticles: implications for surface reactivity by F. F. Marafatto, B. Lanson and J. Pe, Environ. Sci.: Nano, 2018, 5, 497. *Environmental Science: Nano*, **2018**, 5, 2198-2200	7.1	2
4	Mercury in the tissues of five cephalopods species: First data on the nervous system. *Science of the Total Environment*, **2021**, 759, 143907	10.2	2
3	Nature of High- and Low-Affinity Metal Surface Sites on Birnessite Nanosheets. *ACS Earth and Space Chemistry*, **2021**, 5, 66-76	3.2	1
2	Chemical Information in the L X-ray Absorption Spectra of Molybdenum Compounds by High-Energy-Resolution Detection and Density Functional Theory.. *Inorganic Chemistry*, **2021**,	5.1	1
1	Comment on "New insights into the biomineralization of mercury selenide nanoparticles through stable isotope analysis in giant petrel tissues".. *Journal of Hazardous Materials*, **2022**, 431, 128583	12.8	0