Anne-Claire Gaillot

List of Publications by Year
in descending order

22 papers	1,393 citations	430874 18 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	2038 citing authors

#	Article	IF	Citations
1	Structure of Synthetic K-rich Birnessite Obtained by High-Temperature Decomposition of KMnO4. I. Two-Layer Polytype from 800 Â°C Experiment. Chemistry of Materials, 2003, 15, 4666-4678.	6.7	169
2	Structure of heavy-metal sorbed birnessite: Part 1. Results from X-ray diffraction. American Mineralogist, 2002, 87, 1631-1645.	1.9	115
3	Birnessite polytype systematics and identification by powder X-ray diffraction. American Mineralogist, 2007, 92, 771-788.	1.9	114
4	Formation of Mercury Sulfide from Hg(II)â€“Thiolate Complexes in Natural Organic Matter. Environmental Science & Technology, 2015, 49, 9787-9796.	10.0	111
5	Zn sorption modifies dynamically the layer and interlayer structure of vernadite. Geochimica Et Cosmochimica Acta, 2012, 85, 302-313.	3.9	110
6	Raising the redox potential in carboxyphenolate-based positive organic materials via cation substitution. Nature Communications, 2018, 9, 4401.	12.8	101
7	CMC as a binder in LiNi0.4Mn1.6O4 5V cathodes and their electrochemical performance for Li-ion batteries. Electrochimica Acta, 2012, 62, 77-83.	5.2	96
8	Structure of Birnessite Obtained from Decomposition of Permanganate under Soft Hydrothermal Conditions. 1. Chemical and Structural Evolution as a Function of Temperature. Chemistry of Materials, 2005, 17, 2959-2975.	6.7	89
9	In Vivo Formation of HgSe Nanoparticles and Hgâ€“Tetraselenolate Complex from Methylmercury in Seabirdsâ€”Implications for the Hgâ€“Se Antagonism. Environmental Science & Technology, 2021, 55, 1515-1526.	10.0	75
10	Structure of the synthetic K-rich phyllomanganate birnessite obtained by high-temperature decomposition of KMnO4. Microporous and Mesoporous Materials, 2007, 98, 267-282.	4.4	72
11	29Si solid state NMR investigation of pozzolanic reaction occurring in lime-treated Ca-bentonite. Cement and Concrete Research, 2012, 42, 626-632.	11.0	60
12	Structure of Synthetic K-Rich Birnessites Obtained by High-Temperature Decomposition of KMnO4. 2. Phase and Structural Heterogeneities. Chemistry of Materials, 2004, 16, 1890-1905.	6.7	53
13	Determination of manganese valence states in (Mn3+, Mn4+) minerals by electron energy-loss spectroscopy. American Mineralogist, 2010, 95, 1741-1746.	1.9	52
14	Organic nanocrystals grown in solâ€“gel coatings. Journal of Materials Chemistry, 2000, 10, 2723-2726.	6.7	36
15	Si-assisted growth of InAs nanowires. Applied Physics Letters, 2006, 89, 223125.	3.3	34
16	Observation of size dependent liquidus depression in the growth of InAs nanowires. Journal of Crystal Growth, 2006, 296, 159-164.	1.5	28
17	Lowering interfacial chemical reactivity of oxide materials for lithium batteries. A molecular grafting approach. Journal of Materials Chemistry, 2009, 19, 4771.	6.7	25
18	Electron Energy-Loss Safe-Dose Limits for Manganese Valence Measurements in Environmentally Relevant Manganese Oxides. Environmental Science & Technology, 2012, 46, 970-976.	10.0	20

#	Article	IF	Citations
19	Structure of the {001} talc surface as seen by atomic force microscopy: comparison with X-ray and electron diffraction results. European Journal of Mineralogy, 2006, 18, 483-491.	1.3	16
20	Pairing Crossâ€Linked Polyviologen with Aromatic Amine Host Structure for Anion Shuttle Rechargeable Batteries. ChemSusChem, 2020, 13, 2345-2353.	6.8	13
21	Polytype and polymorph identification of finely divided aluminous dioctahedral mica individual crystals with SAED. Kinematical and dynamical electron diffraction. Physics and Chemistry of Minerals, 2011, 38, 435-448.	0.8	2
22	POLYMORPH AND POLYTYPE IDENTIFICATION FROM INDIVIDUAL MICA PARTICLES USING SELECTED AREA ELECTRON DIFFRACTION. Clays and Clay Minerals, 2020, 68, 334-346.	1.3	2