Brian Gregoire

List of Publications by Year
in descending order

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26 papers	458 citations	759055 12 h-index	713332 21 g-index
26 all docs	26 docs citations	26 times ranked	680 citing authors

#	Article	IF	Citations
1	Abiotic Process for Fe(II) Oxidation and Green Rust Mineralization Driven by a Heterotrophic Nitrate Reducing Bacteria (Klebsiella mobilis). Environmental Science & Technology, 2014, 48, 3742-3751.	4.6	71
2	Hydrolysis of mixed Ni2+â€“Fe3+ and Mg2+â€“Fe3+ solutions and mechanism of formation of layered double hydroxides. Dalton Transactions, 2013, 42, 15687.	1.6	53
3	FeII induced mineralogical transformations of ferric oxyhydroxides into magnetite of variable stoichiometry and morphology. Journal of Solid State Chemistry, 2012, 194, 328-335.	1.4	49
4	Nitrate reduction by mixed iron(II-III) hydroxycarbonate green rust in the presence of phosphate anions: The key parameters influencing the ammonium selectivity. Water Research, 2014, 62, 29-39.	5.3	45
5	Structural Cohesion of M^{II}-M^{III} Layered Double Hydroxides Crystals: Electrostatic Forces and Cationic Polarizing Power. Crystal Growth and Design, 2012, 12, 4324-4333.	1.4	41
6	Multiscale Mechanistic Study of the Adsorption of Methyl Orange on the External Surface of Layered Double Hydroxide. Journal of Physical Chemistry C, 2019, 123, 22212-22220.	1.5	19
7	Experimental formation of clay-coated sand grains using diatom biofilm exopolymers. Geology, 2020, 48, 1012-1017.	2.0	19
8	Insights into the behaviour of biomolecules on the early Earth: The concentration of aspartate by layered double hydroxide minerals. Geochimica Et Cosmochimica Acta, 2016, 176, 239-258.	1.6	18
9	Tunable composition of NiIIâ€“AlIII and NiIIâ€“FeIII layered hydroxides within a wide range of layer charge. Solid State Sciences, 2011, 13, 146-150.	1.5	17
10	A general orientation distribution function for clay-rich media. Nature Communications, 2019, 10, 5456.	5.8	16
11	Role of interlayer porosity and particle organization in the diffusion of water in swelling clays. Applied Clay Science, 2021, 207, 106089.	2.6	16
12	Influence of preferred orientation of clay particles on the diffusion of water in kaolinite porous media at constant porosity. Applied Clay Science, 2020, 184, 105354.	2.6	14
13	Tuning and Investigating the Structure of M^{II}-Fe^{III} Layered Double Hydroxides (M^{II} = Ni^{II}, Co^{II}) Tj ETQq1 1 0.784314 rgBT /O Properties. Current Inorganic Chemistry, 2015, 5, 169-183.	0.2	12
14	Design of hybrid Chitosan-Montmorillonite materials for water treatment: Study of the performance and stability. Chemical Engineering Journal Advances, 2021, 6, 100087.	2.4	11
15	Mesoscale Anisotropy in Porous Media Made of Clay Minerals. A Numerical Study Constrained by Experimental Data. Materials, 2018, 11, 1972.	1.3	10
16	Peptide Formation on Layered Mineral Surfaces: The Key Role of Brucite-like Minerals on the Enhanced Formation of Alanine Dipeptides. ACS Earth and Space Chemistry, 2018, 2, 852-862.	1.2	9
17	Connecting molecular simulations and laboratory experiments for the study of time-resolved cation-exchange process in the interlayer of swelling clay minerals. Applied Clay Science, 2021, 200, 105913.	2.6	9
18	Second-Harmonic Scattering in Layered Double Hydroxide Colloids: A Microscopic View of Adsorption and Intercalation. Langmuir, 2018, 34, 12206-12213.	1.6	8

#	Article	IF	Citations
19	Martian Magmatic Clay Minerals Forming Vesicles: Perfect Niches for Emerging Life?. Astrobiology, 2021, 21, 605-612.	1.5	5
20	A step towards controlled-diameter single walled carbon nanotubes. Carbon, 2014, 67, 753-765.	5.4	4
21	Orientation measurements of clay minerals by polarized attenuated total reflection infrared spectroscopy. Journal of Colloid and Interface Science, 2020, 567, 274-284.	5.0	4
22	Second-Harmonic Scattering Can Probe Hydration and Specific Ion Effects in Clay Particles. Journal of Physical Chemistry C, 2020, 124, 4109-4113.	1.5	4
23	Authigenic kaolinite and sudoite in sandstones from the Paleoproterozoic Franceville sub-basin (Gabon). Comptes Rendus - Geoscience, 2021, 353, 209-226.	0.4	2
24	Chemical transformation of ferrihydrite coating into green rust followed by Raman and X-ray photoelectron spectroscopies. Desalination and Water Treatment, 2013, , 1-6.	1.0	1
25	OPTICAL THEORY-BASED SIMULATION OF ATTENUATED TOTAL REFLECTION INFRARED SPECTRA OF MONTMORILLONITE FILMS. Clays and Clay Minerals, 2020, 68, 175-187.	0.6	1
26	Chemisorbed nickel catalyst for the production of SWCNTs with a very narrow size distribution. Physica Status Solidi (B): Basic Research, 2013, 250, 2581-2585.	0.7	0