

# Brian Gregoire

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Connecting molecular simulations and laboratory experiments for the study of time-resolved cation-exchange process in the interlayer of swelling clay minerals. <i>Applied Clay Science</i> , 2021, 200, 105913.                   | 2.6 | 9         |
| 2  | Martian Magmatic Clay Minerals Forming Vesicles: Perfect Niches for Emerging Life?. <i>Astrobiology</i> , 2021, 21, 605-612.   | 1.5 | 5         |
| 3  | Design of hybrid Chitosan-Montmorillonite materials for water treatment: Study of the performance and stability. <i>Chemical Engineering Journal Advances</i> , 2021, 6, 100087.   | 2.4 | 11        |
| 4  | Role of interlayer porosity and particle organization in the diffusion of water in swelling clays. <i>Applied Clay Science</i> , 2021, 207, 106089.  | 2.6 | 16        |
| 5  | Authigenic kaolinite and sudoite in sandstones from the Paleoproterozoic Franceville sub-basin (Gabon). <i>Comptes Rendus - Geoscience</i> , 2021, 353, 209-226.   | 0.4 | 2         |
| 6  | Influence of preferred orientation of clay particles on the diffusion of water in kaolinite porous media at constant porosity. <i>Applied Clay Science</i> , 2020, 184, 105354.  | 2.6 | 14        |
| 7  | OPTICAL THEORY-BASED SIMULATION OF ATTENUATED TOTAL REFLECTION INFRARED SPECTRA OF MONTMORILLONITE FILMS. <i>Clays and Clay Minerals</i> , 2020, 68, 175-187.  | 0.6 | 1         |
| 8  | Experimental formation of clay-coated sand grains using diatom biofilm exopolymers. <i>Geology</i> , 2020, 48, 1012-1017.  | 2.0 | 19        |
| 9  | Orientation measurements of clay minerals by polarized attenuated total reflection infrared spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 274-284.  | 5.0 | 4         |
| 10 | Second-Harmonic Scattering Can Probe Hydration and Specific Ion Effects in Clay Particles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4109-4113.  | 1.5 | 4         |
| 11 | Multiscale Mechanistic Study of the Adsorption of Methyl Orange on the External Surface of Layered Double Hydroxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22212-22220.  | 1.5 | 19        |
| 12 | A general orientation distribution function for clay-rich media. <i>Nature Communications</i> , 2019, 10, 5456.  | 5.8 | 16        |
| 13 | Mesoscale Anisotropy in Porous Media Made of Clay Minerals. A Numerical Study Constrained by Experimental Data. <i>Materials</i> , 2018, 11, 1972.   | 1.3 | 10        |
| 14 | Second-Harmonic Scattering in Layered Double Hydroxide Colloids: A Microscopic View of Adsorption and Intercalation. <i>Langmuir</i> , 2018, 34, 12206-12213.  | 1.6 | 8         |
| 15 | Peptide Formation on Layered Mineral Surfaces: The Key Role of Brucite-like Minerals on the Enhanced Formation of Alanine Dipeptides. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 852-862.                                     | 1.2 | 9         |
| 16 | Insights into the behaviour of biomolecules on the early Earth: The concentration of aspartate by layered double hydroxide minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 176, 239-258.                                  | 1.6 | 18        |
| 17 | Tuning and Investigating the Structure of M <sup>II</sup> -Fe <sup>III</sup> Layered Double Hydroxides (M <sup>II</sup> = Ni <sup>II</sup> , Co <sup>II</sup> ) Properties. <i>Current Inorganic Chemistry</i> , 2015, 5, 169-183. | 0.2 | 12        |
| 18 | Abiotic Process for Fe(II) Oxidation and Green Rust Mineralization Driven by a Heterotrophic Nitrate Reducing Bacteria ( <i>Klebsiella mobilis</i> ). <i>Environmental Science &amp; Technology</i> , 2014, 48, 3742-3751.         | 4.6 | 71        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | A step towards controlled-diameter single walled carbon nanotubes. Carbon, 2014, 67, 753-765.  | 5.4 | 4         |
| 20 | 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        |
| 21 | 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         |
| 22 | Hydrolysis of mixed Ni <sup>2+</sup> /Fe <sup>3+</sup> and Mg <sup>2+</sup> /Fe <sup>3+</sup> solutions and mechanism of formation of layered double hydroxides. Dalton Transactions, 2013, 42, 15687. | 1.6 | 53        |
| 23 | 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         |
| 24 | Structural Cohesion of M <sup>II</sup> -M <sup>III</sup> Layered Double Hydroxides Crystals: Electrostatic Forces and Cationic Polarizing Power. Crystal Growth and Design, 2012, 12, 4324-4333.       | 1.4 | 41        |
| 25 | Feld 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        |
| 26 | Tunable composition of Ni <sup>II</sup> -Al <sup>III</sup> and Ni <sup>II</sup> -Fe <sup>III</sup> layered hydroxides within a wide range of layer charge. Solid State Sciences, 2011, 13, 146-150.    | 1.5 | 17        |