

# Sylvain Grangeon

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,730  
citations

172457

29  
h-index

182427

51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Competitive Adsorption Processes at Clay Mineral Surfaces: A Coupled Experimental and Modeling Approach. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 144-159.	2.7	11
2	Molecular-level understanding of metal ion retention in clay-rich materials. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 461-476.	29.7	39
3	On the interaction between calcite and dolomite: Insights from gas and aqueous geochemistry and mineralogical characterization. <i>Chemical Geology</i> , 2021, 559, 119921.	3.3	5
4	Selenate Sorption by Hydrated Calcium Aluminate (AFm): Evidence for Sorption Reversibility and Implication for the Modeling of Anion Retention. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 229-240.	2.7	3
5	Influence of soil redox state on mercury sorption and reduction capacity. <i>Science of the Total Environment</i> , 2020, 707, 136069.	8.0	10
6	Retention and diffusion of radioactive and toxic species on cementitious systems: Main outcome of the CEBAMA project. <i>Applied Geochemistry</i> , 2020, 112, 104480.	3.0	16
7	Mechanistic and Thermodynamic Insights into Anion Exchange by Green Rust. <i>Environmental Science &amp; Technology</i> , 2020, 54, 851-861.	10.0	16
8	Hydration Properties and Interlayer Organization in Synthetic C-S-H. <i>Langmuir</i> , 2020, 36, 9449-9464.	3.5	28
9	Mineralogical transformations in polymetallic nodules and the change of Ni, Cu and Co crystal-chemistry upon burial in sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 282, 19-37.	3.9	44
10	A quantitative and mechanistic model for the coupling between chemistry and clay hydration. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 283, 124-135.	3.9	8
11	Identification of montmorillonite particle edge orientations by atomic-force microscopy. <i>Applied Clay Science</i> , 2020, 186, 105442.	5.2	15
12	The Nature of Manganese Oxides in Soils and Their Role as Scavengers of Trace Elements: Implication for Soil Remediation. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020, , 399-429.	0.5	6
13	Selenite Uptake by Ca-Al LDH: A Description of Intercalated Anion Coordination Geometries. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1624-1632.	10.0	58
14	Modeling uranium(VI) adsorption onto montmorillonite under varying carbonate concentrations: A surface complexation model accounting for the spillover effect on surface potential. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 291-308.	3.9	102
15	Thermodynamic and crystallographic model for anion uptake by hydrated calcium aluminate (AFm): an example of molybdenum. <i>Scientific Reports</i> , 2018, 8, 7943.	3.3	12
16	Weathering of an argillaceous rock in the presence of atmospheric conditions: A flow-through experiment and modelling study. <i>Applied Geochemistry</i> , 2018, 96, 252-263.	3.0	7
17	Retention of arsenic, chromium and boron on an outcropping clay-rich rock formation (the Tgulgulines) Tj ETQq1 1,0,784314 rgBT /Que	8.0	26
18	Deciphering mineralogical changes and carbonation development during hydration and ageing of a consolidated ternary blended cement paste. <i>IUCr</i> , 2018, 5, 150-157.	2.2	11

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19	Effects of a thermal perturbation on mineralogy and pore water composition in a clay-rock: An experimental and modeling study. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 193-214.	3.9	19
20	Evolution of iron minerals in a 100 years-old Technosol. Consequences on Zn mobility. <i>Geoderma</i> , 2017, 290, 19-32.	5.1	9
21	Role of Carbonate Minerals in the Distribution of Trace Elements in Marine Clay Formations. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 798-801.	0.6	3
22	Evidence of Multiple Sorption Modes in Layered Double Hydroxides Using Mo As Structural Probe. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5531-5540.	10.0	38
23	In situ interactions between Opalinus Clay and Low Alkali Concrete. <i>Physics and Chemistry of the Earth</i> , 2017, 99, 3-21.	2.9	44
24	Quantitative X-ray pair distribution function analysis of nanocrystalline calcium silicate hydrates: a contribution to the understanding of cement chemistry. <i>Journal of Applied Crystallography</i> , 2017, 50, 14-21.	4.5	68
25	In-situ determination of the kinetics and mechanisms of nickel adsorption by nanocrystalline vernadite. <i>Chemical Geology</i> , 2017, 459, 24-31.	3.3	26
26	Study of Iron-Bearing Dolomite Dissolution at Various Temperatures: Evidence for the Formation of Secondary Nanocrystalline Iron-Rich Phases on the Dolomite Surface. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 442-454.	2.7	19
27	Dissolution kinetics of hydrated calcium aluminates (AFm-Cl) as a function of pH and at room temperature. <i>Mineralogical Magazine</i> , 2017, 81, 1245-1259.	1.4	6
28	Nucleation and growth of feitknechtite from nanocrystalline vernadite precursor. <i>European Journal of Mineralogy</i> , 2017, 29, 767-776.	1.3	21
29	Structure of nanocrystalline calcium silicate hydrates: insights from X-ray diffraction, synchrotron X-ray absorption and nuclear magnetic resonance. <i>Journal of Applied Crystallography</i> , 2016, 49, 771-783.	4.5	91
30	Modeling the Acid-Base Properties of Montmorillonite Edge Surfaces. <i>Environmental Science &amp; Technology</i> , 2016, 50, 13436-13445.	10.0	89
31	Distribution of Water in Synthetic Calcium Silicate Hydrates. <i>Langmuir</i> , 2016, 32, 6794-6805.	3.5	72
32	Cryptomelane formation from nanocrystalline vernadite precursor: a high energy X-ray scattering and transmission electron microscopy perspective on reaction mechanisms. <i>Geochemical Transactions</i> , 2015, 16, 12.	0.7	37
33	Alteration of nanocrystalline calcium silicate hydrate (C-S-H) at pH 9.2 and room temperature: a combined mineralogical and chemical study. <i>Mineralogical Magazine</i> , 2015, 79, 437-458.	1.4	31
34	The influence of natural trace element distribution on the mobility of radionuclides. The exemple of nickel in a clay-rock. <i>Applied Geochemistry</i> , 2015, 52, 155-173.	3.0	20
35	Identification of nanocrystalline goethite in reduced clay formations: Application to the Callovian-Oxfordian formation of Bure (France). <i>American Mineralogist</i> , 2015, 100, 1544-1553.	1.9	13
36	Crystal structure of magnesium silicate hydrates (M-S-H): The relation with 2:1 Mg-Si phyllosilicates. <i>Cement and Concrete Research</i> , 2015, 73, 228-237.	11.0	139

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37	Mineralogical characterization of individual growth structures of Mn-nodules with different Ni+Cu content from the central Pacific Ocean. <i>American Mineralogist</i> , 2015, 100, 2497-2508.	1.9	61
38	Solid-state transformation of nanocrystalline phyllosmanganate into tectomanganate: influence of initial layer and interlayer structure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 828-838.	1.1	51
39	Mineralogical and Isotopic Record of Diagenesis from the Opalinus Clay Formation at Benken, Switzerland: Implications for the Modeling of Pore-Water Chemistry in a Clay Formation. <i>Clays and Clay Minerals</i> , 2014, 62, 286-312.	1.3	25
40	Iron and arsenic speciation in marine sediments undergoing a resuspension event: the impact of biotic activity. <i>Journal of Soils and Sediments</i> , 2014, 14, 615-629.	3.0	14
41	A novel and easy chemical-clock synthesis of nanocrystalline iron-cobalt bearing layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2014, 434, 130-140.	9.4	13
42	Thermodynamic properties of chlorite and berthierine derived from calorimetric measurements. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 603-615.	0.8	12
43	Constraints from sulfur isotopes on the origin of gypsum at concrete/claystone interfaces. <i>Physics and Chemistry of the Earth</i> , 2014, 70-71, 84-95.	2.9	5
44	Atmospheric mercury incorporation in soils of an area impacted by a chlor-alkali plant (Grenoble, France). <i>Journal of Environmental Quality</i> , 2014, 43, 1075-1084.	8.0	52
45	Modeling specific pH dependent sorption of divalent metals on montmorillonite surfaces. A review of pitfalls, recent achievements and current challenges. <i>Numerische Mathematik</i> , 2013, 313, 395-451.	1.4	71
46	X-ray diffraction: a powerful tool to probe and understand the structure of nanocrystalline calcium silicate hydrates. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2013, 69, 465-473.	1.1	129
47	On the nature of structural disorder in calcium silicate hydrates with a calcium/silicon ratio similar to tobermorite. <i>Cement and Concrete Research</i> , 2013, 52, 31-37.	11.0	90
48	Short-range and long-range order of phyllosmanganate nanoparticles determined using high-energy X-ray scattering. <i>Journal of Applied Crystallography</i> , 2013, 46, 193-209.	4.5	70
49	Determination of Mn valence states in mixed-valent manganates by XANES spectroscopy. <i>American Mineralogist</i> , 2012, 97, 816-827.	1.9	256
50	Lichen and soil as indicators of an atmospheric mercury contamination in the vicinity of a chlor-alkali plant (Grenoble, France). <i>Ecological Indicators</i> , 2012, 13, 178-183.	6.3	59
51	Zn sorption modifies dynamically the layer and interlayer structure of vernadite. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 302-313.	3.9	110
52	Hydration Properties and Interlayer Organization of Water and Ions in Synthetic Na-Smectite with Tetrahedral Layer Charge. Part 2. Toward a Precise Coupling between Molecular Simulations and Diffraction Data. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1867-1881.	3.1	134
53	Mineralogical and isotopic record of biotic and abiotic diagenesis of the Callovian-Oxfordian clayey formation of Bure (France). <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2633-2663.	3.9	59
54	Structure of nanocrystalline phyllosmanganates produced by freshwater fungi. <i>American Mineralogist</i> , 2010, 95, 1608-1616.	1.9	138

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55	Mercury speciation in a tropical soil association; Consequence of gold mining on Hg distribution in French Guiana. <i>Geoderma</i> , 2009, 153, 331-346.	5.1	93
56	Crystal structure of Ni-sorbed synthetic vernadite: a powder X-ray diffraction study. <i>Mineralogical Magazine</i> , 2008, 72, 1279-1291.	1.4	73
57	Diurnal production of gaseous mercury in the alpine snowpack before snowmelt. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	52