

# Emmanuel Tertre

## List of Publications by Year in descending order

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48  
papers

1,402  
citations

361413

20  
h-index

330143

37  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biostimulation as a sustainable solution for acid neutralization and uranium immobilization post acidic in-situ recovery. <i>Science of the Total Environment</i> , 2022, 822, 153597.	8.0	6
2	A baseline study of mineralogical and morphological properties of different size fractions of illite du Puy. <i>Applied Clay Science</i> , 2022, 224, 106517.	5.2	3
3	Selective adsorption of U(VI) from real mine water using an NH <sub>2</sub> -functionalized silica packed column. <i>Chemical Engineering Journal</i> , 2021, 405, 126912.	12.7	31
4	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.	5.2	9
5	Water and Ion Dynamics in Confined Media: A Multi-Scale Study of the Clay/Water Interface. <i>Colloids and Interfaces</i> , 2021, 5, 34.	2.1	3
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.	5.2	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.	1.3	1
8	Fate of dioctahedral smectites in uranium roll front deposits exploited by acidic In Situ Recovery (ISR) solutions. <i>Applied Clay Science</i> , 2020, 187, 105484.	5.2	9
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.	9.4	4
10	Calcium isotopic fractionation during adsorption onto and desorption from soil phyllosilicates (kaolinite, montmorillonite and muscovite). <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 324-347.	3.9	35
11	A general orientation distribution function for clay-rich media. <i>Nature Communications</i> , 2019, 10, 5456.	12.8	16
12	Diffusion of Water through the Dual-Porosity Swelling Clay Mineral Vermiculite. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1899-1907.	10.0	27
13	Mesoscale Anisotropy in Porous Media Made of Clay Minerals. A Numerical Study Constrained by Experimental Data. <i>Materials</i> , 2018, 11, 1972.	2.9	10
14	Water Mobility within Compacted Clay Samples: Multi-Scale Analysis Exploiting <sup>1</sup> H NMR Pulsed Gradient Spin Echo and Magnetic Resonance Imaging of Water Density Profiles. <i>ACS Omega</i> , 2018, 3, 7399-7406.	3.5	14
15	Influence of crystal structure defects on the small-angle neutron scattering/diffraction patterns of clay-rich porous media. <i>Journal of Applied Crystallography</i> , 2018, 51, 1311-1322.	4.5	12
16	Crystal structure control of aluminized clay minerals on the mobility of caesium in contaminated soil environments. <i>Scientific Reports</i> , 2017, 7, 43187.	3.3	14
17	Adsorption of Uranium over NH <sub>2</sub> -Functionalized Ordered Silica in Aqueous Solutions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15672-15684.	8.0	98
18	Influence of Tetrahedral Layer Charge on the Fixation of Cesium in Synthetic Smectite. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23422-23435.	3.1	7

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19	Experimental data and assessment of predictive modeling for radium ion-exchange on beidellite, a swelling clay mineral with a tetrahedral charge. <i>Applied Geochemistry</i> , 2017, 85, 1-9.	3.0	29
20	Effect of particle size on the experimental dissolution and auto-aluminization processes of K-vermiculite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 180, 164-176.	3.9	13
21	Experimental evidence of the contrasting reactivity of external vs. interlayer adsorption sites on swelling clay minerals: The case of Sr <sup>2+</sup> -for-Ca <sup>2+</sup> exchange in vermiculite. <i>Applied Clay Science</i> , 2016, 132-133, 205-215.	5.2	10
22	Influence of Aqueous Si and Fe Speciation on Tetrahedral Fe(III) Substitutions in Nontronites: A Clay Synthesis Approach. <i>Clays and Clay Minerals</i> , 2016, 64, 230-244.	1.3	28
23	Dissolution of beidellite in acidic solutions: Ion exchange reactions and effect of crystal chemistry on smectite reactivity. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 180, 97-108.	3.9	16
24	Modeling the arrangement of particles in natural swelling-clay porous media using three-dimensional packing of elliptic disks. <i>Physical Review E</i> , 2015, 91, 062210.	2.1	21
25	Nature of the sites involved in the process of cesium desorption from vermiculite. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 254-260.	9.4	57
26	Ion exchange reactions of major inorganic cations (H <sup>+</sup> , Na <sup>+</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> and K <sup>+</sup> ) on beidellite: Experimental results and new thermodynamic database. Toward a better prediction of contaminant mobility in natural environments. <i>Applied Geochemistry</i> , 2015, 59, 74-84.	3.0	44
27	Effect of Alumina Content and Surface Area of Acid-Activated Kaolin on Bleaching of Rice Bran Oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2015, 92, 295-304.	1.9	9
28	Occurrence of authigenic beidellite in the Eocene transitional sandy sediments of the Chu-Saryssu basin (South-Central Kazakhstan). <i>Sedimentary Geology</i> , 2015, 321, 39-48.	2.1	19
29	Effect of the morphology of synthetic kaolinites on their sorption properties. <i>Journal of Colloid and Interface Science</i> , 2015, 443, 177-186.	9.4	12
30	Investigation of clay mineralogy in a temperate acidic soil of a forest using X-ray diffraction profile modeling: Beyond the HIS and HIV description. <i>Geoderma</i> , 2015, 241-242, 75-86.	5.1	48
31	Cation diffusion in the interlayer space of swelling clay minerals – A combined macroscopic and microscopic study. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 251-267.	3.9	41
32	The capacity of activated kaolins to remove colour pigments from rice bran oil: the effects of acid concentration and pre-heating prior to activation. <i>Clay Minerals</i> , 2014, 49, 513-526.	0.6	7
33	Electrodeposition of zinc-ceria nanocomposite coatings in alkaline bath. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 223-233.	2.5	20
34	Assessment of a predictive model to describe the migration of major inorganic cations in a Bt soil horizon. <i>Applied Geochemistry</i> , 2014, 41, 151-162.	3.0	11
35	Predictive Model for Migration of Metallic Cations in Natural Sediments. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 529-532.	0.6	0
36	Ion-exchange reactions on clay minerals coupled with advection/dispersion processes. Application to Na <sup>+</sup> /Ca <sup>2+</sup> exchange on vermiculite: Reactive-transport modeling, batch and stirred flow-through reactor experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 1-19.	3.9	24

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37	Morphological properties of vermiculite particles in size-selected fractions obtained by sonication. <i>Applied Clay Science</i> , 2013, 77-78, 18-32.	5.2	44
38	Investigating the Anisotropic Features of Particle Orientation in Synthetic Swelling Clay Porous Media. <i>Clays and Clay Minerals</i> , 2013, 61, 397-415.	1.3	21
39	A thermodynamic model for the prediction of pore water composition of clayey rock at 25 and 80°C. Comparison with results from hydrothermal alteration experiments. <i>Chemical Geology</i> , 2012, 334, 62-76.	3.3	24
40	Ion Exchange Model for Reversible Sorption of Divalent Metals on Calcite: Implications for Natural Environments. <i>Environmental Science &amp; Technology</i> , 2012, 46, 120827140039005.	10.0	13
41	Influence of the ionic strength and solid/solution ratio on Ca(II)-for-Na <sup>+</sup> exchange on montmorillonite. Part 2: Understanding the effect of the m/V ratio. Implications for pore water composition and element transport in natural media. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 334-347.	9.4	35
42	Influence of the ionic strength and solid/solution ratio on Ca(II)-for-Na <sup>+</sup> exchange on montmorillonite. Part 1: Chemical measurements, thermodynamic modeling and potential implications for trace elements geochemistry. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 248-256.	9.4	61
43	Methodology to obtain exchange properties of the calcite surface. Application to major and trace elements: Ca(II), , and Zn(II). <i>Journal of Colloid and Interface Science</i> , 2010, 347, 120-126.	9.4	15
44	Modelling Zn(II) sorption onto clayey sediments using a multi-site ion-exchange model. <i>Applied Geochemistry</i> , 2009, 24, 1852-1861.	3.0	58
45	Rare earth element sorption by basaltic rock: Experimental data and modeling results using the "Generalised Composite approach". <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1043-1056.	3.9	40
46	Europium retention onto clay minerals from 25 to 150°C: Experimental measurements, spectroscopic features and sorption modelling. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4563-4578.	3.9	172
47	Surface chemistry of kaolinite and Na-montmorillonite in aqueous electrolyte solutions at 25 and 60°C: Experimental and modeling study. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4579-4599.	3.9	103
48	Experimental sorption of Ni <sup>2+</sup> , Cs <sup>+</sup> and Ln <sup>3+</sup> onto a montmorillonite up to 150°C. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4937-4948.	3.9	94