

Manuel Pelletier

List of Publications by Year in descending order

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38
papers

1,649
citations

236925

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docs citations

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times ranked

1840
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of exchanged cation, compression, heating and hydration on textural properties of bulk bentonite and its corresponding purified montmorillonite. <i>Applied Clay Science</i> , 2003, 22, 153-168.	5.2	115
2	Hydration and Dispersion of C ₆₀ in Aqueous Systems: The Nature of Water~Fullerene Interactions. <i>Langmuir</i> , 2009, 25, 11232-11235.	3.5	103
3	Surface area, porosity and water adsorption properties of fine volcanic ash particles. <i>Bulletin of Volcanology</i> , 2005, 67, 160-169.	3.0	91
4	Hydration of a Synthetic Clay with Tetrahedral Charges: A Multidisciplinary Experimental and Numerical Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23745-23759.	2.6	88
5	Hydration and swelling of synthetic Na-saponites: Influence of layer charge. <i>American Mineralogist</i> , 2005, 90, 166-172.	1.9	79
6	Textural and hydration properties of a synthetic montmorillonite compared with a natural Na-exchanged clay analogue. <i>Applied Clay Science</i> , 2010, 48, 18-25.	5.2	76
7	Swelling pressure development and inter-aggregate porosity evolution upon hydration of a compacted swelling clay. <i>Applied Clay Science</i> , 2016, 124-125, 197-210.	5.2	76
8	Water organisation at the solid~aqueous solution interface. <i>Comptes Rendus - Geoscience</i> , 2002, 334, 611-631.	1.2	72
9	Characterization of the pores in hydrous ferric oxide aggregates formed by freezing and thawing. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 163-173.	9.4	65
10	Morphology and surface heterogeneities in synthetic goethites. <i>Journal of Colloid and Interface Science</i> , 2003, 261, 244-254.	9.4	62
11	Hydration Mechanisms and Swelling Behavior of Na-Magadiite. <i>Chemistry of Materials</i> , 2001, 13, 1480-1486.	6.7	61
12	Synthetic allophane-like particles: textural properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 255, 1-10.	4.7	53
13	Smectite fluorination and its impact on interlayer water content and structure: A way to fine tune the hydrophilicity of clay surfaces?. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 233-247.	4.4	53
14	Hydration Water and Swelling Behavior of Magadiite. The H ⁺ , Na ⁺ , K ⁺ , Mg ²⁺ , and Ca ²⁺ -Exchanged Forms. <i>Journal of Physical Chemistry B</i> , 2002, 106, 730-742.	2.6	52
15	Aromatization of organic matter induced by the presence of clays during flash pyrolysis-gas chromatography~mass spectrometry (PyGC~MS). <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 75, 1-10.	5.5	52
16	Adsorption of nucleotides onto ferromagnesian phyllosilicates: Significance for the origin of life. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 176, 81-95.	3.9	51
17	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
18	Microstructure of a compacted soil submitted to an alkaline PLUME. <i>Applied Clay Science</i> , 2008, 40, 159-170.	5.2	43

#	ARTICLE	IF	CITATIONS
19	Physicochemical properties of talc ore from three deposits of Lamal Pougue area (Yaounde) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TFS	9.2	42
20	Berthierine-like mineral formation and stability during the interaction of kaolinite with metallic iron at 90 °C under anoxic and oxic conditions. American Mineralogist, 2013, 98, 163-180.	1.9	42
21	Structural Role of Hydration Water in Na- and H-Magadiite: A Spectroscopic Study. Chemistry of Materials, 2001, 13, 4439-4446.	6.7	40
22	Influence of layer charge on the hydroxyl stretching of trioctahedral clay minerals: A vibrational study of synthetic Na- and K-saponites. American Mineralogist, 2003, 88, 1801-1808.	1.9	36
23	Characterization for industrial applications of clays from Lembo deposit, Mount Bana (Cameroon). Clay Minerals, 2008, 43, 415-435.	0.6	28
24	Structural chemical disorder of manganese dioxides. Journal of Colloid and Interface Science, 2003, 264, 343-353.	9.4	27
25	How do Nucleotides Adsorb Onto Clays?. Life, 2018, 8, 59.	2.4	27
26	Combination of multi-scale and multi-edge X-ray spectroscopy for investigating the products obtained from the interaction between kaolinite and metallic iron in anoxic conditions at 90 °C. Physics and Chemistry of Minerals, 2013, 40, 115-132.	0.8	25
27	Physicochemical properties of talc ore from Pout-Kelle and Memel deposits (central Cameroon). Clay Minerals, 2008, 43, 317-337.	0.6	24
28	Investigating the Anisotropic Features of Particle Orientation in Synthetic Swelling Clay Porous Media. Clays and Clay Minerals, 2013, 61, 397-415.	1.3	21
29	Surface heterogeneity of kanemite, magadiite and kenyaite: a high-resolution gas adsorption study. Clay Minerals, 2002, 37, 531-542.	0.6	20
30	Interaction between l-aspartate and the brucite [Mg(OH) ₂] water interface. Geochimica Et Cosmochimica Acta, 2015, 155, 172-186.	3.9	16
31	Reactivity of Callovo-Oxfordian Claystone and its Clay Fraction With Metallic Iron: Role of Non-Clay Minerals in the Interaction Mechanism. Clays and Clay Minerals, 2015, 63, 290-310.	1.3	13
32	Action of a clay suspension on an Fe(0) surface under anoxic conditions: Characterization of neoformed minerals at the Fe(0)/solution and Fe(0)/atmosphere interfaces. Applied Geochemistry, 2015, 61, 62-71.	3.0	12
33	Study of low-pressure argon adsorption on synthetic nontronite: implications for smectite crystal growth. Clays and Clay Minerals, 2014, 62, 102-111.	1.3	11
34	The evolution of textural properties of Na/Ca-bentonite following hydrothermal treatment at 80 and 300 °C in the presence of Fe and/or Fe oxides. Clay Minerals, 2003, 38, 213-223.	0.6	9
35	Towards a better description of organosilane grafting onto silica particles using volumetric techniques based on molecular probing. Adsorption, 2016, 22, 923-937.	3.0	9
36	Transport of EOR polymer solutions in low permeability porous media: Impact of clay type and injection water composition. Journal of Petroleum Science and Engineering, 2020, 186, 106690.	4.2	7

#	ARTICLE	IF	CITATIONS
37	A quantitative study of solid surface heterogeneity based on the statistical rate theory for analyzing spectra of controlled-rate thermal analysisThe work was carried out at both ICSC-PAS Krakow (Poland) and LEM-INPL Nancy (France).. Physical Chemistry Chemical Physics, 2004, 6, 3684.	2.8	3
38	Understanding water transport through polysulfone asymmetric membranes. Desalination, 2006, 199, 454-455.	8.2	1