

# Esperanza Pavon

## List of Publications by Year in descending order

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39  
papers

452  
citations

759233

12  
h-index

794594

19  
g-index

40  
all docs

40  
docs citations

40  
times ranked

360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into the role of temperature, time and pH in the effective zirconium retention using clay minerals. <i>Journal of Environmental Management</i> , 2022, 308, 114635.	7.8	1
2	Exploring the local environment of the engineered nanoclay Mica-4 under hydrothermal conditions using Eu <sup>3+</sup> as a luminescent probe. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166086.	5.5	3
3	Pb <sup>2+</sup> , Cd <sup>2+</sup> and Hg <sup>2+</sup> removal by designed functionalized swelling high-charged micas. <i>Science of the Total Environment</i> , 2021, 764, 142811.	8.0	8
4	Swelling layered minerals applications: A solid state NMR overview. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 124-125, 99-128.	7.5	7
5	New Trends in Nanoclay-Modified Sensors. <i>Inorganics</i> , 2021, 9, 43.	2.7	16
6	By-products reevaluation in the production of design micaceous materials. <i>Applied Clay Science</i> , 2021, 214, 106292.	5.2	1
7	Designed organomicaceous materials for efficient adsorption of iodine. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106577.	6.7	9
8	An insight on the design of mercapto functionalized swelling brittle micas. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 533-541.	9.4	5
9	Multiple pollutants removal by functionalized heterostructures based on Na-2-Mica. <i>Applied Clay Science</i> , 2020, 196, 105749.	5.2	8
10	Bionanocomposites based on chitosan intercalation in designed swelling high-charged micas. <i>Scientific Reports</i> , 2019, 9, 10265.	3.3	15
11	Design swelling micas: Insights on heavy metals cation exchange reaction. <i>Applied Clay Science</i> , 2019, 182, 105298.	5.2	13
12	Natural abundance <sup>17</sup> O MAS NMR and DFT simulations: New insights into the atomic structure of designed micas. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 100, 45-51.	2.3	8
13	Influence of framework and interlayer on the colloidal stability of design swelling high-charged micas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 561, 32-38.	4.7	6
14	Heteroatom framework distribution and layer charge of sodium Taeniolite. <i>Applied Clay Science</i> , 2018, 158, 246-251.	5.2	1
15	Cesium adsorption isotherm on swelling high-charged micas from aqueous solutions: Effect of temperature. <i>American Mineralogist</i> , 2018, 103, 623-628.	1.9	7
16	A comprehensive and in-depth analysis of the synthesis of advanced adsorbent materials. <i>Journal of Cleaner Production</i> , 2018, 194, 665-672.	9.3	3
17	New insights into surface-functionalized swelling high charged micas: Their adsorption performance for non-ionic organic pollutants. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 179-186.	5.8	29
18	Cs <sup>+</sup> immobilization by designed micaceous adsorbent under subcritical conditions. <i>Applied Clay Science</i> , 2017, 143, 293-299.	5.2	16

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19	Mixed Ba <sub>1-x</sub> La <sub>x</sub> F <sub>2+x</sub> fluoride materials as catalyst for the gas phase fluorination of 2-chloropyridine by HF. Applied Catalysis B: Environmental, 2017, 204, 107-118.	20.2	9
20	Effect of the crystal chemistry on the hydration mechanism of swelling micas. Geochimica Et Cosmochimica Acta, 2017, 217, 231-239.	3.9	4
21	Influence of temperature and time on the Eu <sup>3+</sup> reaction with synthetic Na-Mica- <i>n</i> ( <i>n</i> = 2 and 4). Chemical Engineering Journal, 2016, 284, 1174-1183.	12.7	17
22	Synthesis temperature effect on Na-Mica-4 crystallinity and heteroatom distribution. Microporous and Mesoporous Materials, 2015, 204, 282-288.	4.4	8
23	Self-Assembling of Tetradecylammonium Chain on Swelling High Charge Micas (Na-Mica-3 and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 4394-4401.	3.5	8
24	Impact of hydrothermal treatment of FEBEX and MX80 bentonites in water, HNO <sub>3</sub> and Lu(NO <sub>3</sub> ) <sub>3</sub> media: Implications for radioactive waste control. Applied Clay Science, 2015, 118, 48-55.	5.2	7
25	Influence of the synthesis parameter on the interlayer and framework structure of lamellar octadecyltrimethylammonium kanemite. Applied Clay Science, 2014, 95, 9-17.	5.2	5
26	A new route of synthesis of Na-Mica-4 from sodalite. Microporous and Mesoporous Materials, 2014, 186, 176-180.	4.4	10
27	Interaction of Hydrated Cations with Mica- <i>n</i> ( <i>n</i> = 2, 3 and 4) Surface. Journal of Physical Chemistry C, 2014, 118, 2115-2121.	3.1	15
28	Direct evidence of Lowenstein's rule violation in swelling high-charge micas. Chemical Communications, 2014, 50, 6984.	4.1	10
29	Solution Properties of the System ZrSiO <sub>4</sub> –HfSiO <sub>4</sub> : A Computational and Experimental Study. Journal of Physical Chemistry C, 2013, 117, 10013-10019.	3.1	14
30	Evaluation of rare earth on layered silicates under subcritical conditions: Effect of the framework and interlayer space composition. Chemical Geology, 2013, 347, 208-216.	3.3	6
31	Synthesis and characterization of kanemite from fluoride-containing media: Influence of the alkali cation. American Mineralogist, 2013, 98, 1000-1007.	1.9	3
32	Hydration properties of synthetic high-charge micas saturated with different cations: An experimental approach. American Mineralogist, 2013, 98, 394-400.	1.9	20
33	Synthetic High-Charge Organomica: Effect of the Layer Charge and Alkyl Chain Length on the Structure of the Adsorbed Surfactants. Langmuir, 2012, 28, 7325-7332.	3.5	39
34	Formation of Organo-Highly Charged Mica. Langmuir, 2011, 27, 9711-9718.	3.5	33
35	Evolution of Phases and Al–Si Distribution during Na-4-Mica Synthesis. Journal of Physical Chemistry C, 2011, 115, 20084-20090.	3.1	10
36	Hydrothermal Stability of Layered Silicates in Neutral and Acidic Media: Effect on Engineered-Barrier Safety. Clays and Clay Minerals, 2010, 58, 501-514.	1.3	13

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37	Phase separation of carboxylic acids on graphite surface at submonolayer regime. European Physical Journal: Special Topics, 2009, 167, 151-156.	2.6	2
38	Hydrothermal Reactivity of Na-n-Micas (n = 2, 3, 4). Chemistry of Materials, 2006, 18, 2867-2872.	6.7	53
39	Synthesis and characterization of gallium containing kanemite. Microporous and Mesoporous Materials, 2006, 94, 66-73.	4.4	10