

# Raquel Trujillano

## List of Publications by Citations

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109  
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2,552  
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#	Paper	IF	Citations
105	Synthesis and Characterization of Hydrotalcites Containing Ni(II) and Fe(III) and Their Calcination Products. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 624-633	9.6	106
104	Comparative Study of the Synthesis and Properties of Vanadate-Exchanged Layered Double Hydroxides. <i>Inorganic Chemistry</i> , <b>1994</b> , 33, 2592-2599	5.1	99
103	Effect of chemical modification of palygorskite and sepiolite by 3-aminopropyltriethoxysilane on adsorption of cationic and anionic dyes. <i>Applied Clay Science</i> , <b>2017</b> , 135, 394-404	5.2	79
102	A review on characterization of pillared clays by specific techniques. <i>Applied Clay Science</i> , <b>2011</b> , 53, 97-105	5.2	77
101	New synthesis strategies for effective functionalization of kaolinite and saponite with silylating agents. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 341, 186-93	9.3	72
100	Cobalt-iron hydroxycarbonates and their evolution to mixed oxides with spinel structure. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 761-767		70
99	Porphyrin-kaolinite as efficient catalyst for oxidation reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2667-78	9.5	61
98	New highly luminescent hybrid materials: terbium pyridine-picolinate covalently grafted on kaolinite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 1311-8	9.5	57
97	Thermal behaviour of Zn-ir layered double hydroxides with hydrotalcite-like structures containing carbonate or decavanadate. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 1419-1428		52
96	High temperature CO <sub>2</sub> sorption with gallium-substituted and promoted hydrotalcites. <i>Separation and Purification Technology</i> , <b>2014</b> , 127, 202-211	8.3	49
95	New layered double hydroxides with the hydrotalcite structure containing Ni(II) and V(III). <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 1033-1039		49
94	Hybrid materials prepared by interlayer functionalization of kaolinite with pyridine-carboxylic acids. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 335, 210-5	9.3	48
93	Preparation, physicochemical characterisation and magnetic properties of Cu-Al layered double hydroxides with CO <sub>3</sub> <sup>2-</sup> and anionic surfactants with different alkyl chains in the interlayer. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 373, 267-273	2.8	48
92	Kaolinite-titanium oxide nanocomposites prepared via sol-gel as heterogeneous photocatalysts for dyes degradation. <i>Catalysis Today</i> , <b>2015</b> , 246, 133-142	5.3	47
91	Green and selective oxidation reactions catalyzed by kaolinite covalently grafted with Fe(III) pyridine-carboxylate complexes. <i>Catalysis Today</i> , <b>2012</b> , 187, 135-149	5.3	47
90	Novel reactive amino-compound: Tris(hydroxymethyl)aminomethane covalently grafted on kaolinite. <i>Applied Clay Science</i> , <b>2010</b> , 48, 516-521	5.2	47
89	Organically Modified Saponites: SAXS Study of Swelling and Application in Caffeine Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10853-62	9.5	46

88	Characterization of Intercalated Ni/Al Hydrotalcites Prepared by the Partial Decomposition of Urea. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1533-1536	3.5	46
87	Acetylene hydrogenation on Ni/Al <sub>2</sub> O <sub>3</sub> oxide catalysts: the role of added Zn. <i>Applied Clay Science</i> , <b>1998</b> , 13, 363-379	5.2	44
86	A FTIR spectroscopic study of surface acidity and basicity of mixed Mg, Al-oxides obtained by thermal decomposition of hydrotalcite. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , <b>1993</b> , 49, 1575-1582		44
85	Preparation, characterization and application of nanosized copper ferrite photocatalysts for dye degradation under UV irradiation. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 160, 271-278	4.4	43
84	High temperature CO <sub>2</sub> sorption over modified hydrotalcites. <i>Chemical Engineering Journal</i> , <b>2017</b> , 325, 25-34	14.7	42
83	Preparation and characterisation of Mn- and Co-supported catalysts derived from Al-pillared clays and Mn- and Co-complexes. <i>Applied Catalysis A: General</i> , <b>2004</b> , 267, 47-58	5.1	41
82	Effect of the intercalation conditions of a montmorillonite with octadecylamine. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 284, 239-44	9.3	41
81	Simulation three-way catalyst ageing: Analysis of two conventional catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 44, 41-52	21.8	40
80	Chromium/Saponite clay catalysts: Preparation, characterization and catalytic performance in propene oxidation. <i>Applied Catalysis A: General</i> , <b>2007</b> , 327, 1-12	5.1	37
79	Cu/Al/Fe layered double hydroxides with CO <sub>3</sub> <sup>2-</sup> and anionic surfactants with different alkyl chains in the interlayer. <i>Solid State Sciences</i> , <b>2005</b> , 7, 931-935	3.4	34
78	Structural, textural and acidic properties of Cu-, Fe- and Cr-doped Ti-pillared montmorillonites. <i>Applied Clay Science</i> , <b>2015</b> , 118, 124-130	5.2	31
77	Amine-Functionalized Titanosilicates Prepared by the Sol-Gel Process as Adsorbents of the Azo-Dye Orange II. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 239-246	3.9	31
76	Microwave radiation and mechanical grinding as new ways for preparation of saponite-like materials. <i>Applied Clay Science</i> , <b>2010</b> , 48, 32-38	5.2	31
75	Hydrogen adsorption by microporous materials based on alumina-pillared clays. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 8611-8615	6.7	31
74	The role of oxidative debris on graphene oxide films. <i>ChemPhysChem</i> , <b>2013</b> , 14, 4002-9	3.2	30
73	Vapor-phase alkylation of toluene by benzyl alcohol on H <sub>3</sub> PO <sub>4</sub> -modified MCM-41 mesoporous silicas. <i>Catalysis Communications</i> , <b>2007</b> , 8, 49-56	3.2	29
72	Preparation and Study of Decavanadate-Pillared Hydrotalcite-like Anionic Clays Containing Cobalt and Chromium. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 6362-6372	5.1	28
71	Versatile heterogeneous dipicolinate complexes grafted into kaolinite: Catalytic oxidation of hydrocarbons and degradation of dyes. <i>Catalysis Today</i> , <b>2014</b> , 227, 105-115	5.3	24

70	Chemistry of Silica-Supported Cobalt Catalysts Prepared by Cation Adsorption. 1. Initial Localized Adsorption of Cobalt Precursors. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7152-7164	3.8	24
69	Synthesis of Zeolite A from Metakaolin and Its Application in the Adsorption of Cationic Dyes. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 608	2.6	23
68	Preparation and characterization of new Ni-aluminosilicate catalysts and their performance in the epoxidation of (Z)-cyclooctene. <i>Applied Catalysis A: General</i> , <b>2007</b> , 319, 153-162	5.1	23
67	Tetracarboxyphenylporphyrin/Kaolinite Hybrid Materials as Efficient Catalysts and Antibacterial Agents. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24562-24574	3.8	21
66	Chemistry of Silica-Supported Cobalt Catalysts Prepared by Cation Adsorption. 2. Neoformation of Cobalt Phyllosilicate. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18551-18558	3.8	21
65	Preparation and characterisation of vanadium catalysts supported over alumina-pillared clays. <i>Catalysis Today</i> , <b>2003</b> , 78, 181-190	5.3	21
64	Rapid microwave-assisted synthesis of saponites and their use as oxidation catalysts. <i>Applied Clay Science</i> , <b>2011</b> , 53, 326-330	5.2	20
63	Photocatalytic degradation of trimethoprim on doped Ti-pillared montmorillonite. <i>Applied Clay Science</i> , <b>2019</b> , 167, 43-49	5.2	20
62	Surface and textural properties of hydrotalcite-like materials and their decomposition products. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 87, 507-515	1.8	17
61	Rare earth and zinc layered hydroxide salts intercalated with the 2-aminobenzoate anion as organic luminescent sensitizer. <i>Materials Research Bulletin</i> , <b>2015</b> , 70, 336-342	5.1	16
60	Takovite/Aluminosilicate Nanocomposite as Adsorbent for Removal of Cr(III) and Pb(II) from Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 241-247	2.8	16
59	Synthesis and characterization of organosaponites. Thermal behavior of their poly(vinyl chloride) nanocomposites. <i>Applied Clay Science</i> , <b>2014</b> , 99, 72-82	5.2	14
58	Preparation, alumina-pillaring and oxidation catalytic performances of synthetic Ni-saponite. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 117, 309-316	5.3	14
57	Aminoiron(III)porphyrin/alumina catalyst obtained by non-hydrolytic sol-gel process for heterogeneous oxidation of hydrocarbons. <i>Molecular Catalysis</i> , <b>2019</b> , 462, 114-125	3.3	14
56	Removal of Orange II by Phosphonium-modified Algerian Bentonites. <i>Chemical Engineering Communications</i> , <b>2015</b> , 202, 520-533	2.2	13
55	Preparation of composites of laponite with alginate and alginic acid polysaccharides. <i>Polymer International</i> , <b>2012</b> , 61, 1170-1176	3.3	13
54	Analysis of the Structure of Alumina-Pillared Clays by Nitrogen and Carbon Dioxide Adsorption. <i>Adsorption Science and Technology</i> , <b>2007</b> , 25, 217-226	3.6	13
53	Laponite functionalized with biuret and melamine. Application to adsorption of antibiotic trimethoprim. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 253, 112-122	5.3	12

52	Adsorption of nitrogen, hydrogen and carbon dioxide on alumina-pillared clays. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 160, 327-334	1.8	12
51	Doped Ti-pillared clays as effective adsorbents [Application to methylene blue and trimethoprim removal. <i>Environmental Chemistry</i> , <b>2017</b> , 14, 267	3.2	11
50	Pd supported on Cu-doped Ti-pillared montmorillonite as catalyst for the Ullmann coupling reaction. <i>Applied Clay Science</i> , <b>2018</b> , 160, 126-131	5.2	11
49	Chemistry of the preparation of silica-supported cobalt catalysts from Co(II) and Co(III) complexes: Grafting versus phyllosilicate formation. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 1055-1060	1.8	11
48	Eu <sup>3+</sup> - and Tb <sup>3+</sup> -Dipicolinate Complexes Covalently Grafted into Kaolinite as Luminescence-Functionalized Clay Hybrid Materials. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 5081-5088	3.8	10
47	Kaolinite-polymer compounds by grafting of 2-hydroxyethyl methacrylate and 3-(trimethoxysilyl)propyl methacrylate. <i>Applied Clay Science</i> , <b>2017</b> , 146, 526-534	5.2	10
46	Microwave-Assisted Pillaring of a Montmorillonite with Al-Polycations in Concentrated Media. <i>Materials</i> , <b>2017</b> , 10,	3.5	10
45	Dynamic behaviour of a K-doped Ga substituted and microwave aged hydrotalcite-derived mixed oxide during CO <sub>2</sub> sorption experiments. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 72, 491-503	6.3	10
44	Two synthesis approaches of Fe-containing intercalated montmorillonites: Differences as acid catalysts for the synthesis of 1,5-benzodeazepine from 1,2-phenylenediamine and acetone. <i>Applied Clay Science</i> , <b>2017</b> , 146, 388-396	5.2	9
43	Takovite-aluminosilicate-Cr materials prepared by adsorption of Cr <sup>3+</sup> from industrial effluents as catalysts for hydrocarbon oxidation reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2525-33	9.5	9
42	(Z)-cyclooctene epoxidation and cyclohexane oxidation on Ni/alumina-pillared clay catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 124, 218-226	5.3	9
41	Ni/Pillared Clays as Catalysts for the Selective Catalytic Reduction of Nitrogen Oxides by Propene. <i>Catalysis Letters</i> , <b>2008</b> , 123, 32-40	2.8	9
40	Effect of Intermediates on the Nature of Polyvanadate-Intercalated Layered Double Hydroxides. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 244, 167-172		9
39	Catalytic activity of porphyrin-catalysts immobilized on kaolinite. <i>Applied Clay Science</i> , <b>2019</b> , 168, 469-477	5.2	9
38	Differently aged gallium-containing layered double hydroxides. <i>Applied Clay Science</i> , <b>2013</b> , 80-81, 326-332	3.2	8
37	Structure Evolution of Co/Alumina-Pillared Clay Catalysts under Thermal Treatment at Increasing Temperatures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 7226-7235	3.9	8
36	Alternative synthetic routes for NiAl layered double hydroxides with alkyl and alkylbenzene, sulfonates. <i>Studies in Surface Science and Catalysis</i> , <b>2002</b> , 1387-1394	1.8	8
35	Saponites containing divalent transition metal cations in octahedral positions [Exploration of synthesis possibilities using microwave radiation and NMR characterization. <i>Applied Clay Science</i> , <b>2015</b> , 115, 24-29	5.2	7

34	Microwave hydrothermal synthesis of $A_2Sn_2O_7$ (A=Eu or Y). <i>Ceramics International</i> , <b>2015</b> , 41, 2266-2270	5.1	6
33	Removal of organic pollutants from industrial wastewater: performance evaluation of inorganic adsorbents based on pillared clays. <i>Desalination and Water Treatment</i> , <b>2012</b> , 39, 316-322		6
32	Obtention of low oxidation states of copper from $Cu_2+Al_3+$ layered double hydroxides containing organic sulfonates in the interlayer. <i>Solid State Sciences</i> , <b>2009</b> , 11, 688-693	3.4	6
31	X-ray Rietveld analysis and Fourier transform infrared spectra of the solid solutions $[Eu_{2-x}M_x][Sn_{2-x}M_x]O_7B_x/2$ (M = Mg or Zn). <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 29-33	5.1	6
30	Inorganic-organic hybrids based on sepiolite as efficient adsorbents of caffeine and glyphosate pollutants. <i>Applied Surface Science Advances</i> , <b>2020</b> , 1, 100025	2.6	6
29	Hydrotalcite catalysis for the synthesis of new chiral building blocks. <i>Natural Product Research</i> , <b>2016</b> , 30, 834-40	2.3	5
28	Hydrothermal synthesis of $Sm_2Sn_2O_7$ pyrochlore accelerated by microwave irradiation. A comparison with the solid state synthesis method. <i>Ceramics International</i> , <b>2016</b> , 42, 15950-15954	5.1	5
27	Effect of the metal support interactions on the physicochemical and magnetic properties of Ni catalysts. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e783-e786	2.8	5
26	Removal of salts from granite by sepiolite. <i>Applied Clay Science</i> , <b>1995</b> , 9, 459-463	5.2	5
25	White and Red Brazilian $S\beta$ Sim $\beta$ 's Kaolinite-TiO Nanocomposites as Catalysts for Toluene Photodegradation from Aqueous Solutions. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
24	Photodegradation of 1,2,4-Trichlorobenzene on Montmorillonite/TiO <sub>2</sub> Nanocomposites. <i>ChemEngineering</i> , <b>2018</b> , 2, 22	2.6	4
23	Preparation and characterisation of Ni-Mg-Al hydrotalcites as hydrogenation catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 2099-2104	1.8	4
22	Controlling the Synthesis Conditions for Tuning the Properties of Hydrotalcite-Like Materials at the Nano Scale. <i>ChemEngineering</i> , <b>2018</b> , 2, 31	2.6	4
21	Adsorption-Based Synthesis of Environmentally Friendly Heterogeneous Chromium(III) Catalysts for Oxidation Reactions into Kaolinite, Saponite, and Their Amine-Modified Derivatives. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3867-3877	5.6	4
20	Activity in the Photodegradation of 4-Nitrophenol of a Zn,Al Hydrotalcite-Like Solid and the Derived Alumina-Supported ZnO. <i>Catalysts</i> , <b>2020</b> , 10, 702	4	3
19	Kaolinite/TiO <sub>2</sub> /cobalt(II) Tetracarboxymetallophthalocyanine Nanocomposites as Heterogeneous Photocatalysts for Decomposition of Organic Pollutants Trimethoprim, Caffeine and Prometryn. <i>Journal of the Brazilian Chemical Society</i> , <b>2019</b> ,	1.5	3
18	Structural determination of new solid solutions $[Y_{2-x}M_x][Sn_{2-x}M_x]O_7-3x/2$ (M = Mg or Zn) by Rietveld method. <i>Processing and Application of Ceramics</i> , <b>2010</b> , 4, 237-243	1.4	3
17	Pillared Clay Catalysts in Green Oxidation Reactions <b>2010</b> , 301-318		2

16	Spectroscopic Properties of Co-Fe Hydrotalcites. <i>Spectroscopy Letters</i> , <b>1998</b> , 31, 859-869	1.1	2
15	Synthèse et Étude radiocristallographique de nouvelles solutions solides de structure pyrochlore (1-x) A <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> ·k MO (A = Eu, Y ET M = Mg, Zn). <i>Annales De Chimie: Science Des Materiaux</i> , <b>2009</b> , 34, 21-26	2.1	2
14	Preparation of Al/Fe-PILC clay catalysts from concentrated precursors: enhanced hydrolysis of pillaring metals and intercalation.. <i>RSC Advances</i> , <b>2020</b> , 10, 40450-40460	3.7	2
13	Layered double hydroxide/borate composites supported on magnetic nanoparticles: preparation, characterization and molecular dynamics simulations. <i>Journal of Porous Materials</i> , <b>2020</b> , 27, 735-743	2.4	2
12	Effect of Chain Length and Functional Group of Organic Anions on the Retention Ability of MgAl-Layered Double Hydroxides for Chlorinated Organic Solvents. <i>ChemEngineering</i> , <b>2019</b> , 3, 89	2.6	2
11	Luminescent properties of biohybrid (kaolinite-proline) materials synthesized by a new boric acid catalyzed route and complexed to Eu <sup>3+</sup> . <i>Applied Clay Science</i> , <b>2020</b> , 192, 105634	5.2	1
10	Microwave-assisted synthesis of Ni, Zn layered double hydroxysalts. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 253, 129-136	5.3	1
9	Comment on "Liquid phase oxidation of p-vanillyl alcohol over synthetic Co-saponite catalyst" by A.C. Garade, N.S. Biradar, S.M. Joshi, V.S. Kshirsagar, R.K. Jha, C.V. Rode [Applied Clay Science (2010), doi:10.1016/j.clay.2010.10.026]. <i>Applied Clay Science</i> , <b>2011</b> , 52, 190-191	5.2	1
8	Titania-triethanolamine-kaolinite nanocomposites as adsorbents and photocatalysts of herbicides. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 419, 113483	4.7	1
7	Alkali metal (Na, Cs and K) promoted hydrotalcites for high temperature CO <sub>2</sub> capture from flue gas in cyclic adsorption processes. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131502	14.7	1
6	Application of birnessite-type solids prepared by sol-gel and oxidation methods in photocatalytic degradation of 4-nitrophenol. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 1-9	2.6	0
5	Phase Change Materials (PCMs) Based in Paraffin/Synthetic Saponite Used as Heat Storage Composites. <i>Energies</i> , <b>2021</b> , 14, 7414	3.1	0
4	Non-hydrolytic sol-gel synthesis of mesoporous iron-aluminum oxide and their properties in the oxidation of hydrocarbons by hydrogen peroxide. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 325, 111317	5.3	0
3	Comment on "Iron oxide-pillared clay catalyzed the synthesis of acetonides from epoxides" by P. Trikitiwong, N. Sukpirom, S. Shimazu, W. Chavasiri, Catalysis Communications 54 (2014) 104-107 (doi: 10.1016/j.catcom.2014.05.002). <i>Catalysis Communications</i> , <b>2015</b> , 61, 121-122	3.2	
2	Oxide Nanomaterials in Ceramics <b>2006</b> , 683-713		
1	Grafting of L-proline and L-phenylalanine amino acids on kaolinite through synthesis catalyzed by boric acid. <i>Applied Surface Science Advances</i> , <b>2021</b> , 4, 100081	2.6	