

# Miguel A Vicente

## List of Publications by Year in descending order

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188  
papers

6,943  
citations

66234

42  
h-index

74018

75  
g-index

192  
all docs

192  
docs citations

192  
times ranked

5846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous photo-Fenton oxidation with pillared clay-based catalysts for wastewater treatment: A review. <i>Applied Catalysis B: Environmental</i> , 2010, 98, 10-26.	10.8	601
2	Recent Advances in the Synthesis and Catalytic Applications of Pillared Clays. <i>Catalysis Reviews - Science and Engineering</i> , 2000, 42, 145-212.	5.7	465
3	Fenton-like oxidation of Orange II solutions using heterogeneous catalysts based on saponite clay. <i>Applied Catalysis B: Environmental</i> , 2007, 71, 44-56.	10.8	275
4	Chemical Activation of a Kaolinite under Acid and Alkaline Conditions. <i>Chemistry of Materials</i> , 2002, 14, 2033-2043.	3.2	254
5	Phenol degradation in water through a heterogeneous photo-Fenton process catalyzed by Fe-treated laponite. <i>Water Research</i> , 2009, 43, 1313-1322.	5.3	205
6	Acid activation of a palygorskite with HCl: Development of physico-chemical, textural and surface properties. <i>Applied Clay Science</i> , 1995, 10, 247-258.	2.6	180
7	Recent Advances in the Control and Characterization of the Porous Structure of Pillared Clay Catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2008, 50, 153-221.	5.7	180
8	Comparative FT-IR study of the removal of octahedral cations and structural modifications during acid treatment of several silicates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1996, 52, 1685-1694.	2.0	164
9	Experimental Design to Optimize the Oxidation of Orange II Dye Solution Using a Clay-based Fenton-like Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 284-294.	1.8	118
10	Effect of chemical modification of palygorskite and sepiolite by 3-aminopropyltriethoxysilane on adsorption of cationic and anionic dyes. <i>Applied Clay Science</i> , 2017, 135, 394-404.	2.6	112
11	Complete oxidation of acetone over manganese oxide catalysts supported on alumina- and zirconia-pillared clays. <i>Applied Catalysis B: Environmental</i> , 2002, 38, 295-307.	10.8	111
12	Effect of Sb/V Ratio and of Sb + V Coverage on the Molecular Structure and Activity of Alumina-Supported Sb <sup>5+</sup> /V <sup>5+</sup> O Catalysts for the Ammoxidation of Propane to Acrylonitrile. <i>Journal of Catalysis</i> , 2002, 206, 339-348.	3.1	94
13	A review on characterization of pillared clays by specific techniques. <i>Applied Clay Science</i> , 2011, 53, 97-105.	2.6	89
14	Characterization, Surface Area, and Porosity Analyses of the Solids Obtained by Acid Leaching of a Saponite. <i>Langmuir</i> , 1996, 12, 566-572.	1.6	87
15	New synthesis strategies for effective functionalization of kaolinite and saponite with silylating agents. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 186-193.	5.0	85
16	Effect of the atomic active metal ratio in Al/Fe-, Al/Cu- and Al/(Fe <sup>2+</sup> /Cu)-intercalating solutions on the physicochemical properties and catalytic activity of pillared clays in the CWPO of methyl orange. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 271-281.	10.8	77
17	Porphyrin <sup>2+</sup> kaolinite as Efficient Catalyst for Oxidation Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2667-2678.	4.0	71
18	Synthesis and CO <sub>2</sub> adsorption properties of hydrotalcite-like compounds prepared from aluminum saline slag wastes. <i>Chemical Engineering Journal</i> , 2018, 334, 1341-1350.	6.6	69

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19	Degradation of Acid Orange 7 using a saponite-based catalyst in wet hydrogen peroxide oxidation: Kinetic study with the Fermi's equation. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 197-205.	10.8	68
20	New Highly Luminescent Hybrid Materials: Terbium Pyridine <sup>+</sup> Picolinate Covalently Grafted on Kaolinite. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1311-1318.	4.0	65
21	Main factors controlling the texture of zirconia and alumina pillared clays. <i>Microporous and Mesoporous Materials</i> , 2000, 34, 115-125.	2.2	64
22	Platinum catalysts supported on Al-pillared clays. <i>Catalysis Today</i> , 2001, 68, 41-51.	2.2	62
23	Catalytic Degradation of Organic Pollutants in Aqueous Streams by Mixed Al/M-Pillared Clays (M = Fe, Ti, Zn). <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 107-115.	3.7	62
24	High temperature CO <sub>2</sub> sorption with gallium-substituted and promoted hydrotalcites. <i>Separation and Purification Technology</i> , 2014, 127, 202-211.	3.9	61
25	Kaolinite-titanium oxide nanocomposites prepared via sol-gel as heterogeneous photocatalysts for dyes degradation. <i>Catalysis Today</i> , 2015, 246, 133-142.	2.2	61
26	Effect of nitric acid modification of montmorillonite clay on synthesis of solketal from glycerol and acetone. <i>Catalysis Communications</i> , 2017, 90, 65-69.	1.6	59
27	A review of organic-inorganic hybrid clay based adsorbents for contaminants removal: Synthesis, perspectives and applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105808.	3.3	59
28	Organically Modified Saponites: SAXS Study of Swelling and Application in Caffeine Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10853-10862.	4.0	58
29	Fenton degradation of sulfanilamide in the presence of Al,Fe-pillared clay: Catalytic behavior and identification of the intermediates. <i>Journal of Hazardous Materials</i> , 2015, 293, 21-29.	6.5	58
30	Pillared Clays and Clay Minerals. <i>Developments in Clay Science</i> , 2013, 5, 523-557.	0.3	57
31	Preparation and characterization of manganese oxide catalysts supported on alumina and zirconia-pillared clays. <i>Applied Catalysis A: General</i> , 2000, 196, 281-292.	2.2	54
32	Novel reactive amino-compound: Tris(hydroxymethyl)aminomethane covalently grafted on kaolinite. <i>Applied Clay Science</i> , 2010, 48, 516-521.	2.6	53
33	Hybrid materials prepared by interlayer functionalization of kaolinite with pyridine-carboxylic acids. <i>Journal of Colloid and Interface Science</i> , 2009, 335, 210-215.	5.0	52
34	Preparation of microporous solids by acid treatment of a saponite. <i>Microporous Materials</i> , 1995, 4, 251-264.	1.6	50
35	Green and selective oxidation reactions catalyzed by kaolinite covalently grafted with Fe(III) pyridine-carboxylate complexes. <i>Catalysis Today</i> , 2012, 187, 135-149.	2.2	50
36	Hydrogen adsorption by microporous materials based on alumina-pillared clays. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8611-8615.	3.8	48

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37	Porosity of Synthetic Saponites with Variable Layer Charge Pillared by Al <sup>3+</sup> Polycations. <i>Langmuir</i> , 1995, 11, 2849-2852.	1.6	47
38	Pillared Clays and Related Catalysts. , 2010, , .		47
39	Effective degradation of methylene blue in aqueous solution using Pd-supported Cu-doped Ti-pillared montmorillonite catalyst. <i>Applied Clay Science</i> , 2019, 168, 7-10.	2.6	45
40	Treatment of municipal leachate of landfill by Fenton-like heterogeneous catalytic wet peroxide oxidation using an Al/Fe-pillared montmorillonite as active catalyst. <i>Chemical Engineering Journal</i> , 2011, 178, 146-153.	6.6	44
41	Effect of dopants on the structure of titanium oxide used as a photocatalyst for the removal of emergent contaminants. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 183-191.	2.9	44
42	On the structural changes of a saponite intercalated with various polycations upon thermal treatments. <i>Applied Catalysis A: General</i> , 2001, 217, 191-204.	2.2	43
43	Effect of the intercalation conditions of a montmorillonite with octadecylamine. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 239-244.	5.0	43
44	Interaction of stevensite with Cd <sup>2+</sup> and Pb <sup>2+</sup> in aqueous dispersions. <i>Applied Clay Science</i> , 2007, 35, 47-58.	2.6	43
45	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> , 2004, 267, 47-58.	2.2	42
46	Chromium <sup>VI</sup> -saponite clay catalysts: Preparation, characterization and catalytic performance in propene oxidation. <i>Applied Catalysis A: General</i> , 2007, 327, 1-12.	2.2	41
47	Synthesis of Zeolite A from Metakaolin and Its Application in the Adsorption of Cationic Dyes. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 608.	1.3	41
48	Zn-Ti-Al layered double hydroxides synthesized from aluminum saline slag wastes as efficient drug adsorbents. <i>Applied Clay Science</i> , 2020, 187, 105486.	2.6	41
49	Acid Activation of a Ferrous Saponite (Griffithite): Physico-Chemical Characterization and Surface Area of the Products Obtained. <i>Clays and Clay Minerals</i> , 1994, 42, 724-730.	0.6	40
50	Pillaring of saponite with zirconium oligomers. <i>Microporous and Mesoporous Materials</i> , 1998, 24, 173-188.	2.2	40
51	Fe-saponite pillared and impregnated catalysts. <i>Applied Catalysis B: Environmental</i> , 2004, 50, 101-112.	10.8	40
52	Adsorption and Desorption of N-Methyl 8-Hydroxy Quinoline Methyl Sulfate on Smectite and the Potential Use of the Clay-Organic Product as an Ultraviolet Radiation Collector. <i>Clays and Clay Minerals</i> , 1989, 37, 157-163.	0.6	39
53	Removal of natural organic matter for drinking water production by Al/Fe-PILC-catalyzed wet peroxide oxidation: Effect of the catalyst preparation from concentrated precursors. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 527-535.	10.8	37
54	Preparation of Al/Fe-Pillared Clays: Effect of the Starting Mineral. <i>Materials</i> , 2017, 10, 1364.	1.3	37

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55	Microwave radiation and mechanical grinding as new ways for preparation of saponite-like materials. <i>Applied Clay Science</i> , 2010, 48, 32-38.	2.6	36
56	Structural, textural and acidic properties of Cu-, Fe- and Cr-doped Ti-pillared montmorillonites. <i>Applied Clay Science</i> , 2015, 118, 124-130.	2.6	36
57	Study of the Porous Solids Obtained by Acid Treatment of a High Surface Area Saponite. <i>Journal of Porous Materials</i> , 1999, 6, 335-344.	1.3	35
58	Effect of the Si/Al ratio on the structure and surface properties of silica-alumina-pillared clays. <i>Journal of Catalysis</i> , 2005, 229, 119-126.	3.1	35
59	Amine-Functionalized Titanosilicates Prepared by the Solâˆ“Gel Process as Adsorbents of the Azo-Dye Orange II. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 239-246.	1.8	35
60	Synthesis of Pt pillared clay nanocomposite catalysts from [PtII(NH3)4]Cl2 precursor. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4843-4852.	1.3	33
61	Chemical Structures of ZrO2-Supported Vâˆ“Sb Oxides. <i>Chemistry of Materials</i> , 2001, 13, 1174-1180.	3.2	32
62	Fe-saponite pillared and impregnated catalysts. <i>Applied Catalysis B: Environmental</i> , 2004, 50, 227-234.	10.8	32
63	Vapor-phase alkylation of toluene by benzyl alcohol on H3PO4-modified MCM-41 mesoporous silicas. <i>Catalysis Communications</i> , 2007, 8, 49-56.	1.6	32
64	Synthesis of octahydro-2H-chromen-4-ol from vanillin and isopulegol over acid modified montmorillonite clays: Effect of acidity on the Prins cyclization. <i>Journal of Molecular Catalysis A</i> , 2015, 398, 26-34.	4.8	32
65	Effect of acid modification of kaolin and metakaolin on BrÃˆnsted acidity and catalytic properties in the synthesis of octahydro-2H-chromen-4-ol from vanillin and isopulegol. <i>Journal of Molecular Catalysis A</i> , 2016, 414, 160-166.	4.8	32
66	Strategies for immobilization of manganese on expanded natural clays: Catalytic activity in the CWPO of methyl orange. <i>Applied Catalysis B: Environmental</i> , 2011, 104, 252-260.	10.8	31
67	Fly ash as photo-Fenton catalyst for the degradation of amoxicillin. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103274.	3.3	31
68	Sonocatalysis and Basic Clays. Michael Addition Between Imidazole and Ethyl Acrylate. <i>Catalysis Letters</i> , 2002, 84, 201-204.	1.4	30
69	Support Effect on the Structure and Reactivity of VSbO<sub>4</sub> Catalysts for Propane Ammoxidation to Acrylonitrile. <i>Chemistry of Materials</i> , 2007, 19, 6621-6628.	3.2	30
70	Synthesis of pollucite and analcime zeolites by recovering aluminum from a saline slag. <i>Journal of Cleaner Production</i> , 2021, 297, 126667.	4.6	30
71	Influence of the Ti precursor on the properties of Tiâˆ“pillared smectites. <i>Clay Minerals</i> , 2001, 36, 125-138.	0.2	29
72	Effect of the surface properties of Me2+/Al layered double hydroxides synthesized from aluminum saline slag wastes on the adsorption removal of drugs. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110560.	2.2	29

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73	Influence of the free silica generated during acid activation of a sepiolite on the adsorbent and textural properties of the resulting solids. <i>Journal of Materials Chemistry</i> , 1995, 5, 127-132.	6.7	28
74	Effect of the nature and structure of pillared clays in the catalytic behaviour of supported manganese oxide. <i>Catalysis Today</i> , 2006, 112, 117-120.	2.2	28
75	Dynamics of absorbed water in saponite clay: Neutron scattering study. <i>Chemical Physics Letters</i> , 2006, 426, 296-300.	1.2	28
76	10 kg scaled-up preparation of Al/Fe-pillared clay CWPO catalysts from concentrated precursors. <i>Green Chemistry</i> , 2018, 20, 5196-5208.	4.6	28
77	Synthesis of paracetamol by liquid phase Beckmann rearrangement of 4-hydroxyacetophenone oxime over H <sub>3</sub> PO <sub>4</sub> /Al-MCM-41. <i>Catalysis Communications</i> , 2009, 10, 1486-1492.	1.6	27
78	Rapid microwave-assisted synthesis of saponites and their use as oxidation catalysts. <i>Applied Clay Science</i> , 2011, 53, 326-330.	2.6	27
79	Application of basic clays in microwave activated Michael additions: Preparation of N-substituted imidazoles. <i>Journal of Molecular Catalysis A</i> , 1997, 124, 115-121.	4.8	25
80	Non-aggressive pillaring of clays with zirconium acetate. Comparison with alumina pillared clays. <i>Applied Catalysis A: General</i> , 1999, 183, 23-33.	2.2	25
81	Preparation and characterization of new Ni-aluminosilicate catalysts and their performance in the epoxidation of (Z)-cyclooctene. <i>Applied Catalysis A: General</i> , 2007, 319, 153-162.	2.2	25
82	Versatile heterogeneous dipicolinate complexes grafted into kaolinite: Catalytic oxidation of hydrocarbons and degradation of dyes. <i>Catalysis Today</i> , 2014, 227, 105-115.	2.2	25
83	Methanol synthesis from CO <sub>2</sub> and H <sub>2</sub> over gallium promoted copper-based supported catalysts. Effect of hydrocarbon impurities in the CO <sub>2</sub> /H <sub>2</sub> source. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4837-4842.	1.3	24
84	Tetracarboxyphenylporphyrin@Kaolinite Hybrid Materials as Efficient Catalysts and Antibacterial Agents. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24562-24574.	1.5	23
85	Factors Affecting the Catalytic Performance of Zr,Al-Pillared Clays in the Synthesis of Propylene Glycol Methyl Ether. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 13565-13574.	1.8	23
86	Encapsulation of SALEN- and SALHD-Mn(III) complexes in an Al-pillared clay for bicarbonate-assisted catalytic epoxidation of cyclohexene. <i>Journal of Molecular Catalysis A</i> , 2016, 416, 10-19.	4.8	23
87	Application of Industrial Wastes from Chemically Treated Aluminum Saline Slags as Adsorbents. <i>ACS Omega</i> , 2018, 3, 18275-18284.	1.6	23
88	Photocatalytic degradation of trimethoprim on doped Ti-pillared montmorillonite. <i>Applied Clay Science</i> , 2019, 167, 43-49.	2.6	23
89	Aminoiron(III)@porphyrin@alumina catalyst obtained by non-hydrolytic sol-gel process for heterogeneous oxidation of hydrocarbons. <i>Molecular Catalysis</i> , 2019, 462, 114-125.	1.0	23
90	Preparation and characterisation of vanadium catalysts supported over alumina-pillared clays. <i>Catalysis Today</i> , 2003, 78, 181-190.	2.2	22

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91	Pillaring of a High Iron Content Saponite with Aluminum Polycations: Surface and Catalytic Properties. <i>Langmuir</i> , 1996, 12, 5143-5147.	1.6	21
92	Al-pillared saponites Part 4. Pillaring with a new Al <sub>13</sub> oligomer containing organic ligands. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1633-1639.	1.3	21
93	Effect of structure and acidity of acid modified clay materials on synthesis of octahydro-2H-chromen-4-ol from vanillin and isopulegol. <i>Catalysis Communications</i> , 2015, 69, 234-238.	1.6	21
94	Saline slag waste as an aluminum source for the synthesis of Zn-Al-Fe-Ti layered double-hydroxides as catalysts for the photodegradation of emerging contaminants. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156007.	2.8	21
95	Ultrasound-activated Knoevenagel condensation of malononitrile with carbonylic compounds catalysed by alkaline-doped saponites. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 234-238.	1.6	20
96	Enhanced Thermal Conductivity of Nanofluids Diagnosis by Molecular Dynamics Simulations. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3710-3718.	0.9	20
97	Pillaring of a Saponite with Aluminum-Chromium Oligomers. Characterization of the Solids Obtained. <i>Chemistry of Materials</i> , 1997, 9, 1829-1836.	3.2	19
98	Preparation of drug-montmorillonite UV-radiation protection compounds by gas-solid adsorption. <i>Clay Minerals</i> , 2001, 36, 541-546.	0.2	19
99	Synthetic and natural materials with the brucite-like layers as high active catalyst for synthesis of 1-methoxy-2-propanol from methanol and propylene oxide. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 22-30.	4.8	19
100	Preparation, alumina-pillaring and oxidation catalytic performances of synthetic Ni-saponite. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 309-316.	2.2	18
101	Progress and perspectives on pillared clays applied in energetic and environmental remediation processes. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 21, 56-63.	3.2	18
102	Laponite functionalized with biuret and melamine Application to adsorption of antibiotic trimethoprim. <i>Microporous and Mesoporous Materials</i> , 2017, 253, 112-122.	2.2	17
103	Pd supported on Cu-doped Ti-pillared montmorillonite as catalyst for the Ullmann coupling reaction. <i>Applied Clay Science</i> , 2018, 160, 126-131.	2.6	17
104	Thermal studies of pharmaceutical-clay systems Part I. Montmorillonite-based systems. <i>Thermochimica Acta</i> , 1996, 286, 89-103.	1.2	16
105	Application of phenyl salicylate-sepiolite systems as ultraviolet radiation filters. <i>Clay Minerals</i> , 1998, 33, 467-474.	0.2	16
106	27Al MQ-MAS NMR as a Tool for Structure Determination in Nanocomposite Materials: The Nature of Al Pillars in Al <sub>13</sub> -Pillared Clays. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4133-4138.	1.2	16
107	Takovite-Aluminosilicate Nanocomposite as Adsorbent for Removal of Cr(III) and Pb(II) from Aqueous Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 241-247.	1.0	16
108	Preparation of composites of laponite with alginate and alginic acid polysaccharides. <i>Polymer International</i> , 2012, 61, 1170-1176.	1.6	16

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109	Al-pillaring of saponite with the al polycation [Al <sub>13</sub> (OH) <sub>24</sub> (H <sub>2</sub> O) <sub>24</sub> ] <sup>15+</sup> using a new synthetic route. <i>Clays and Clay Minerals</i> , 2003, 51, 168-171.	0.6	14
110	Analysis of the Structure of Alumina-Pillared Clays by Nitrogen and Carbon Dioxide Adsorption. <i>Adsorption Science and Technology</i> , 2007, 25, 217-226.	1.5	14
111	Synthesis and characterization of organosaponites. Thermal behavior of their poly(vinyl chloride) nanocomposites. <i>Applied Clay Science</i> , 2014, 99, 72-82.	2.6	14
112	Kaolinite-polymer compounds by grafting of 2-hydroxyethyl methacrylate and 3-(trimethoxysilyl)propyl methacrylate. <i>Applied Clay Science</i> , 2017, 146, 526-534.	2.6	14
113	Microwave-Assisted Pillaring of a Montmorillonite with Al-Polycations in Concentrated Media. <i>Materials</i> , 2017, 10, 886.	1.3	14
114	Catalytic activity of porphyrin-catalysts immobilized on kaolinite. <i>Applied Clay Science</i> , 2019, 168, 469-477.	2.6	14
115	A comparative study of acid and alkaline aluminum extraction valorization procedure for aluminum saline slags. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107546.	3.3	14
116	Supported catalysts for DeNOx reaction based on iron clays. <i>Journal of Molecular Catalysis A</i> , 2004, 219, 309-313.	4.8	13
117	Effect of the Platinum Content on the Microstructure and Micropore Size Distribution of Pt/Alumina-Pillared Clays. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23461-23465.	1.2	13
118	Easy Synthesis of K <sup>+</sup> F Zeolite from Kaolin, and Characterization of This Zeolite. <i>Journal of Chemical Education</i> , 2006, 83, 1541.	1.1	13
119	Adsorption of nitrogen, hydrogen and carbon dioxide on alumina-pillared clays. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 327-334.	1.5	13
120	Removal of Orange II by Phosphonium-modified Algerian Bentonites. <i>Chemical Engineering Communications</i> , 2015, 202, 520-533.	1.5	13
121	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> , 2017, 121, 5081-5088.	1.5	13
122	Optimization of hydrocalumite preparation under microwave irradiation for recovering aluminium from a saline slag. <i>Applied Clay Science</i> , 2021, 212, 106217.	2.6	13
123	Relationship between the Surface Properties and the Catalytic Performance of Al-, Ga-, and AlGa-Pillared Saponites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 406-414.	1.8	12
124	Saponites containing divalent transition metal cations in octahedral positions – Exploration of synthesis possibilities using microwave radiation and NMR characterization. <i>Applied Clay Science</i> , 2015, 115, 24-29.	2.6	12
125	Doped Ti-pillared clays as effective adsorbents – Application to methylene blue and trimethoprim removal. <i>Environmental Chemistry</i> , 2017, 14, 267.	0.7	12
126	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> , 2017, 146, 388-396.	2.6	12



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127	Inorganic-organic hybrids based on sepiolite as efficient adsorbents of caffeine and glyphosate pollutants. <i>Applied Surface Science Advances</i> , 2020, 1, 100025.	2.9	12
128	Progress and perspectives for the use of pillared clays as adsorbents for organic compounds in aqueous solution. <i>Reviews in Chemical Engineering</i> , 2022, 38, 301-325.	2.3	12
129	Dehydrogenation of Ethylbenzene on Alumina-Chromia-Pillared Saponites. <i>Catalysis Letters</i> , 2002, 78, 99-103.	1.4	11
130	Characterization of the Solids Obtained by Pillaring of Griffithite (High Iron Content Saponite) with Al-Oligomers. <i>Clays and Clay Minerals</i> , 1997, 45, 761-768.	0.6	10
131	Preparation, characterization and catalytic activity in the deep oxidation of acetone of Cr,Al-pillared saponites. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 72, 131-136.	1.6	10
132	Ni/Pillared Clays as Catalysts for the Selective Catalytic Reduction of Nitrogen Oxides by Propene. <i>Catalysis Letters</i> , 2008, 123, 32-40.	1.4	10
133	(Z)-cyclooctene epoxidation and cyclohexane oxidation on Ni/alumina-pillared clay catalysts. <i>Microporous and Mesoporous Materials</i> , 2009, 124, 218-226.	2.2	10
134	Cesium-saponites as excellent environmental-friendly catalysts for the synthesis of N-alkyl pyrazoles. <i>Applied Clay Science</i> , 2011, 54, 125-131.	2.6	10
135	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> , 2012, 4, 2525-2533.	4.0	10
136	Dynamics of water in synthetic saponite clays: Effect of trivalent ion substitution. <i>Physical Review E</i> , 2013, 87, 062317.	0.8	10
137	Disinfection by Chemical Oxidation Methods. <i>Handbook of Environmental Chemistry</i> , 2017, , 257-295.	0.2	10
138	Thermal study of the hydrocalumite-katoite-calcite system. <i>Thermochimica Acta</i> , 2022, 713, 179242.	1.2	10
139	Preparation of Porous Silica by Acid Activation of Metakaolins. <i>Studies in Surface Science and Catalysis</i> , 2002, , 307-314.	1.5	9
140	Dehydrogenation of ethylbenzene on alumina-pillared Fe-rich saponites. <i>Catalysis Letters</i> , 2005, 101, 229-234.	1.4	9
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