Fernando Wypych

List of Publications by Year in Descending Order

216 papers	8,796 citations	44 h-index	87 g-index
232 ext. papers	9,603 ext. citations	4.7 avg, IF	6.3 L-index

#	Paper	IF	Citations
216	Electromigration of protons and zero valent iron oxidation: A physico-chemical insight to model the kinetics of fenton-like process. *Chemical Engineering Journal*, **2022**, 435, 135026	14.7	0
215	Oleic acid as a synergistic agent in the formation of kaolinite-mineral oil Pickering emulsions. *Applied Clay Science*, **2022**, 216, 106378	5.2	0
214	Layered materials as nanocontainers for active corrosion protection: A brief review. *Applied Clay Science*, **2022**, 225, 106537	5.2	1
213	Shigaite, natroglaucocerinite and motukoreaite-like layered double hydroxides as Pickering emulsifiers in water/oil emulsions: A comparative study. *Applied Clay Science*, **2021**, 201, 105918	5.2	3
212	Natural and synthetic layered hydroxide salts (LHS): Recent advances and application perspectives emphasizing catalysis. *Progress in Solid State Chemistry*, **2021**, 64, 100335	8	4
211	Mechanochemical synthesis of eco-friendly fertilizer from eggshell (calcite) and KH2PO4. *Advanced Powder Technology*, **2021**, 32, 4070-4070	4.6	3
210	K-shigaite-like layered double hydroxide particles as Pickering emulsifiers in oil/water emulsions. *Applied Clay Science*, **2020**, 193, 105660	5.2	5
209	First synthesis of a nanohybrid composed of a layered double hydroxide of Zn2Al intercalated with SO42−Na+/Ag+ and decorated with Ago nanoparticles. *Journal of Solid State Chemistry*, **2020**, 288, 121394	3.3	2
208	Light-assisted cyclohexane oxidation catalysis by a manganese(III) porphyrin immobilized onto zinc hydroxide salt and zinc oxide obtained by zinc hydroxide salt hydrothermal decomposition. *Applied Catalysis A: General*, **2020**, 602, 117708	5.1	6
207	Structural analysis of dehydrated gibbsite-based layered double hydroxides LiAl2X (X = F−Cl−Br−I−OH−NO3−CO32−and SO42−) by DFT calculations. *New Journal of Chemistry*, **2020**, 44, 10137-10145	3.6	3
206	Synthesis and topotactic exchange reactions of new layered double hydroxides intercalated with ammonium/sulfate. *Solid State Sciences*, **2020**, 106, 106304	3.4	2
205	Layered double hydroxides with the composition [Mn6Al3(OH)18][(HPO42−)2A+].yH2O (A+ = Li, Na or K) obtained by topotactic exchange reactions. *Applied Clay Science*, **2020**, 193, 105658	5.2	5
204	Thermogravimetric analysis of layered double hydroxides intercalated with sulfate and alkaline cations [M62+Al3(OH)18][A+(SO4)2] 12H2O (M2+ = Mn, Mg, Zn; A+ = Li, Na, K). *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 1715-1723	4.1	3
203	Adsorption of an iron(III)porphyrin onto a 2:1 Zn/Al-CO3 layered double hydroxide and its use as an oxidation catalyst with different counter ions: An experimental and DFT study. *Applied Clay Science*, **2020**, 185, 105410	5.2	4
202	Thermal and flammability properties influenced by Zn/Al, Co/Al, and Ni/Al layered double hydroxide in low-density polyethylene nanocomposites. *Journal of Applied Polymer Science*, **2020**, 137, 48737	2.9	5
201	Synthesis and characterization of gordaite, osakaite and simonkolleite by different methods: Comparison, phase interconversion, and potential corrosion protection applications. *Journal of Solid State Chemistry*, **2020**, 291, 121595	3.3	4
200	Composites of polyethylene and layered cobalt hydroxide salts as potential ultraviolet radiation absorbers. *Polymer Bulletin*, **2020**, 77, 255-273	2.4	4

199	Zinc-Layered Hydroxide Salt Intercalated with Molybdate Anions as a New Smart Nanocontainer for Active Corrosion Protection of Carbon Steel. *ACS Applied Materials & Interfaces*, **2020**, 12, 19823-19833	9.5	20
198	Selective synthesis of monolaurin catalyzed by layered zinc laurate. *Reaction Kinetics, Mechanisms and Catalysis*, **2019**, 128, 779-791	1.6	
197	Comparison between catalytic activities of two zinc layered hydroxide salts in brilliant green organic dye bleaching. *Journal of Colloid and Interface Science*, **2019**, 541, 425-433	9.3	12
196	Potential Sustainable Slow-Release Fertilizers Obtained by Mechanochemical Activation of MgAl and MgFe Layered Double Hydroxides and K□HPO□*Nanomaterials*, **2019**, 9,	5.4	13
195	Converting Mn/Al layered double hydroxide anion exchangers into cation exchangers by topotactic reactions using alkali metal sulfate solutions. *Chemical Communications*, **2019**, 55, 7824-7827	5.8	17
194	Microwave-irradiated acetylation of glycerol catalyzed by acid activated clays. *Reaction Kinetics, Mechanisms and Catalysis*, **2019**, 127, 991-1004	1.6	7
193	Investigation of benzophenone adsolubilized into Zn3Al-LDH intercalated with dodecylsulfate by DFT calculations. *Applied Clay Science*, **2019**, 179, 105153	5.2	3
192	Synthesis of Malic Acid on Montmorillonite K10: A Langmuir□Hinshelwood Kinetic Study. *Industrial & Engineering Chemistry Research*, **2019**, 58, 9257-9265	3.9	7
191	Rheological properties of low-density polyethylene filled with hydrophobic Co(Ni)-Al layered double hydroxides. *Polimeros*, **2019**, 29,	1.6	1
190	DFT Study of Layered Double Hydroxides with Cation Exchange Capacity: (A+(H2O)6)[M62+Al3(OH)18(SO4)2]□6H2O (M2+ = Mg, Zn and A+ = Na, K). *Journal of Physical Chemistry C*, **2019**, 123, 9838-9845	3.8	10
189	Nanocomposites of polyethylene and ternary (Mg + Zn/Al) layered double hydroxide modified with an organic UV absorber. *Journal of Polymer Research*, **2019**, 26, 1	2.7	4
188	Synthesis, characterization, thermal behavior and exchange reactions of new phases of layered double hydroxides with the chemical composition [M+26Al3(OH)18(SO4)2].(A(H2O)6).6H2O (M+2 = Co, Ni; A = Li+, Na+, K+). *Applied Clay Science*, **2019**, 181, 105217	5.2	10
187	Immobilization of Pseudomonas cepacia lipase on layered double hydroxide of Zn/Al-Cl for kinetic resolution of rac-1-phenylethanol. *Enzyme and Microbial Technology*, **2019**, 130, 109365	3.8	13
186	PRELIMINARY ASSESSMENT OF THE PROCESSING OF HIGH-ACIDITY FATTY MATERIALS USING SOLID CATALYSTS FOR THE OBTAINMENT OF FATTY ACID METHYL ESTERS. *Brazilian Journal of Chemical Engineering*, **2019**, 36, 1535-1551	1.7	1
185	Effect of layered hydroxide salts, produced by two different methods, on the mechanical and thermal properties of poly(methyl methacrylate). *Polymer Engineering and Science*, **2019**, 59, 1065-1074	2.3	3
184	Layered clay minerals, synthetic layered double hydroxides and hydroxide salts applied as pickering emulsifiers. *Applied Clay Science*, **2019**, 169, 10-20	5.2	37
183	Cation Exchange Reactions in Layered Double Hydroxides Intercalated with Sulfate and Alkaline Cations (A(HO))[MAl(OH)(SO)]□6HO (M = Mn, Mg, Zn; A = Li, Na, K). *Journal of the American Chemical Society*, **2019**, 141, 531-540	16.4	36
182	Pickering emulsions formation using kaolinite and Brazil nut oil: particle hydrophobicity and oil self emulsion effect. *Journal of Dispersion Science and Technology*, **2018**, 39, 901-910	1.5	9

181	A Preliminary Investigation Concerning Metal Oxides as Catalysts for Esterification of Lauric Acid with Isopropanol. *Chemistry and Chemical Technology*, **2018**, 12, 158-166	0.9	
180	Oxidation catalyst obtained by the immobilization of layered double hydroxide/Mn(iii) porphyrin on monodispersed silica spheres. *Dalton Transactions*, **2018**, 47, 3068-3073	4.3	12
179	Mechanochemical conversion of chrysotile/KHPO mixtures into potential sustainable and environmentally friendly slow-release fertilizers. *Journal of Environmental Management*, **2018**, 206, 962-970	7.9	13
178	Fabrication of ZnO-Zn2TiO4 nanocomposite from zinc hydroxide nitrate and its photocatalytic efficiency. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 353, 46-52	4.7	10
177	Potential Slow Release Fertilizers and Acid Soil Conditioners Obtained by One-Pot Mechanochemical Activation of Chrysotile:Cement Roofing Sheets with K2HPO4. *Journal of the Brazilian Chemical Society*, **2018**,	1.5	2
176	From polymers to clay polymer nanocomposites. *Developments in Clay Science*, **2018**, 9, 331-359		8
175	Investigation of the initial stages of the montmorillonite acid-activation process using DFT calculations. *Applied Clay Science*, **2018**, 165, 170-178	5.2	9
174	Immobilization of a cationic manganese(III) porphyrin on lithium gordaite (LiZn4(OH)6(SO4)Cl·6H2O), a layered hydroxide salt with cation exchange capacity. *Applied Clay Science*, **2017**, 139, 108-111	5.2	10
173	Ab initio simulations of the intercalation of iron(III) porphyrinates in Zn2Al-LDH: Structural analysis and evaluation of their basic and acid sites. *Applied Clay Science*, **2017**, 143, 220-226	5.2	6
172	Structural and thermodynamic investigation of the hydration-dehydration process of Na +-Montmorillonite using DFT calculations. *Applied Clay Science*, **2017**, 143, 212-219	5.2	17
171	Synthesis, cation exchange and dehydration/rehydration of sodium gordaite: NaZn 4 (OH) 6 (SO 4)Cl·6H 2 O. *Applied Clay Science*, **2017**, 146, 100-105	5.2	13
170	DFT study of the intercalation of layered double hydroxides and layered hydroxide salts with dodecylsulfate and dodecylbenzene sulfonate: Exfoliation and hydration´properties. *Applied Clay Science*, **2017**, 143, 107-114	5.2	17
169	Design and Kinetic Study of Sustainable Potential Slow-Release Fertilizer Obtained by Mechanochemical Activation of Clay Minerals and Potassium Monohydrogen Phosphate. *Industrial & Engineering Chemistry Research*, **2017**, 56, 708-716	3.9	30
168	Kinetics evaluation of the ethyl esterification of long chain fatty acids using commercial montmorillonite K10 as catalyst. *Fuel*, **2017**, 193, 265-274	7.1	26
167	Enhancement of Mechanical and Thermal Properties of Poly(L-lactide) Nanocomposites Filled with Synthetic Layered Compounds. *International Journal of Polymer Science*, **2017**, 2017, 1-8	2.4	1
166	Synthesis of Layered Disodium (or Dipotassium) Tetrakis-(octanoate-o)-Zinc(II) and Preliminary Investigation of the Catalytic Activity in the Esterification of Octanoic Acid with Isopropanol. *Kinetics and Catalysis*, **2017**, 58, 726-733	1.5	
165	DFT-based calculations of the adsorptions of acetic acid, triacetin, methanol and the alkoxide formation on the surfaces of zinc acetate. *Molecular Catalysis*, **2017**, 440, 43-49	3.3	7
164	Unusual catalytic activity after simultaneous immobilization of two metalloporphyrins on hydrozincite/nanocrystalline anatase. *Journal of Catalysis*, **2017**, 352, 442-451	7.3	10

163	Rice Husk Ash as Raw Material for the Synthesis of Silicon and Potassium Slow-Release Fertilizer. *Journal of the Brazilian Chemical Society*, **2017**,	1.5	3
162	New Alternative to Produce Colored Polymer Nanocomposites: Organophilic Ni/Al and Co/Al Layered Double Hydroxide as Fillers into Low-Density Polyethylene. *Journal of the Brazilian Chemical Society*, **2017**,	1.5	3
161	Biodiesel: Raw Materials, Production Technologies and Fuel Properties. *Revista Virtual De Quimica*, **2017**, 9, 317-369	1.3	23
160	Evaluation of layered zinc hydroxide nitrate and zinc/nickel double hydroxide salts in the removal of chromate ions from solutions. *Journal of Solid State Chemistry*, **2016**, 243, 136-145	3.3	21
159	General Assessment of the Currently Available Biodiesel Production Technologies. *Green Energy and Technology*, **2016**, 291-326	0.6	
158	MAS NMR and EPR study of structural changes in talc and montmorillonite induced by grinding. *Clay Minerals*, **2016**, 51, 69-80	1.3	19
157	. *IEEE Electrical Insulation Magazine*, **2016**, 32, 21-27	2.1	1
156	Intercalation of indigo carmine anions into zinc hydroxide salt: A novel alternative blue pigment. *Dyes and Pigments*, **2016**, 128, 158-164	4.6	25
155	Intercalation of Molybdate Ions into Ni/Zn Layered Double Hydroxide Salts: Synthesis, Characterization, and Preliminary Catalytic Activity in Methyl Transesterification of Soybean Oil. *Journal of the Brazilian Chemical Society*, **2016**,	1.5	3
154	Layered double hydroxides as fillers in poly(l-lactide) nanocomposites, obtained by in situ bulk polymerization. *Polimeros*, **2016**, 26, 106-114	1.6	9
153	Recent Advances in Solid Catalysts Obtained by Metalloporphyrins Immobilization on Layered Anionic Exchangers: A Short Review and Some New Catalytic Results. *Molecules*, **2016**, 21, 291	4.8	38
152	Selective oxidation catalysts obtained by immobilization of iron(III) porphyrins on thiosalicylic acid-modified Mg-Al layered double hydroxides. *Journal of Colloid and Interface Science*, **2016**, 478, 374-83	3.3	17
151	Density, refractive index and viscosity as content monitoring tool of acylglycerols and fatty acid methyl esters in the transesterification of soybean oil. *Analytical Methods*, **2016**, 8, 5619-5627	3.2	8
150	Kinetics of ethylic esterification of lauric acid on acid activated montmorillonite (STx1-b) as catalyst. *Fuel*, **2016**, 181, 600-609	7.1	11
149	Na+ as a probe to structural investigation of dehydrated smectites using NMR spectra calculated by DFT. *Applied Clay Science*, **2016**, 126, 132-140	5.2	13
148	A theoretical study of a homologous series of zinc n-alkanoates (2 □hC □8): Structural analysis, evaluation of their interactions and monofilm formation. *Chemical Physics Letters*, **2015**, 636, 154-162	2.5	4
147	Heterogeneous oxidation of the dye Brilliant Green with H 2 O 2 catalyzed by supported manganese porphyrins. *Journal of Molecular Catalysis A*, **2015**, 408, 123-131		20
146	Influence of two different alcohols in the esterification of fatty acids over layered zinc stearate/palmitate. *Bioresource Technology*, **2015**, 193, 337-44	11	16

145	Galactodendritic porphyrinic conjugates as new biomimetic catalysts for oxidation reactions. *Inorganic Chemistry*, **2015**, 54, 4382-93	5.1	26
144	Manganese chlorins immobilized on silica as oxidation reaction catalysts. *Journal of Colloid and Interface Science*, **2015**, 450, 339-352	9.3	6
143	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate Kinetic modeling. *Fuel*, **2015**, 153, 445-454	7.1	21
142	Solid-state mechanochemical activation of clay minerals and soluble phosphate mixtures to obtain slow-release fertilizers. *Clay Minerals*, **2015**, 50, 153-162	1.3	28
141	Selective Oxidation Catalysts Obtained by the Immobilization of Iron (III) Porphyrins on Layered Hydroxide Salts **2015**, 6526-6542		1
140	Nanocompsitos de poli(lcool vinlico) contendo materiais hbridos mimetizando o pigmento Azul Maya. *Polimeros*, **2015**, 25, 77-88	1.6	
139	Rare earth and zinc layered hydroxide salts intercalated with the 2-aminobenzoate anion as organic luminescent sensitizer. *Materials Research Bulletin*, **2015**, 70, 336-342	5.1	16
138	Theoretical study of the anion exchange properties and the thermal decomposition of Zn5(OH)8(NO3)22H2O and Zn5(OH)8(NO3)22NH3. *Applied Clay Science*, **2015**, 114, 103-111	5.2	15
137	Synthesis of new metalloporphyrin derivatives from [5,10,15,20-tetrakis (pentafluorophenyl)porphyrin] and 4-mercaptobenzoic acid for homogeneous and heterogeneous catalysis. *Applied Catalysis A: General*, **2015**, 503, 9-19	5.1	27
136	Applications of Heterogeneous Catalysts in the Production of Biodiesel by Esterification and Transesterification **2014**, 255-276		6
135	Kinetics of non-catalytic and ZnL2-catalyzed esterification of lauric acid with ethanol. *Fuel*, **2014**, 117, 125-132	7.1	23
134	Glycol metalloporphyrin derivatives in solution or immobilized on LDH and silica: synthesis, characterization and catalytic features in oxidation reactions. *Catalysis Science and Technology*, **2014**, 4, 129-141	5.5	30
133	Bioactive nanocomposites of bacterial cellulose and natural hydrocolloids. *Journal of Materials Chemistry B*, **2014**, 2, 7034-7044	7.3	19
132	The Use of Acid-Activated Montmorillonite as a Solid Catalyst for the Production of Fatty Acid Methyl Esters. *Energy & Fuels*, **2014**, 28, 5834-5840	4.1	13
131	Similarities between Zinc Hydroxide Chloride Monohydrate and Its Dehydrated Form: A Theoretical Study of Their Structures and Anionic Exchange Properties. *Journal of Physical Chemistry C*, **2014**, 118, 19106-19113	3.8	22
130	Anionic Iron(III) Porphyrin Immobilized on/into Exfoliated Macroporous Layered Double Hydroxides as Catalyst for Oxidation Reactions. *Journal of the Brazilian Chemical Society*, **2014**,	1.5	4
129	Zinc layered hydroxide salts: intercalation and incorporation into low-density polyethylene. *Polimeros*, **2014**, 24, 673-682	1.6	12
128	Pulsed hydrostatic pressure and ultrasound assisted extraction of soluble matter from mate leaves (Ilex paraguariensis): Experiments and modeling. *Separation and Purification Technology*, **2014**, 132, 1-9	8.3	12

127	Hidr□idos duplos lamelares como matrizes para fertilizantes de libera□ lenta de nitrato. *Revista Brasileira De Ciencia Do Solo*, **2014**, 38, 272-277	1.5	7
126	Libera□ de nitrato de hidr□idos duplos lamelares como potenciais fertilizantes de libera□ lenta. *Revista Brasileira De Ciencia Do Solo*, **2014**, 38, 821-830	1.5	9
125	Nanocomp□sitos polim□icos de polietileno de alta densidade contendo hidr□idos duplos lamelares intercalados com anions derivados de corantes azo. *Polimeros*, **2014**, 24, 332-343	1.6	3
124	Synthetic zinc layered hydroxide salts intercalated with anionic azo dyes as fillers into high-density polyethylene composites: first insights. *Journal of Polymer Research*, **2013**, 20, 1	2.7	25
123	Zinc Monoglycerolate as Highly Active and Reusable Catalyst in the Methyl Transesterification of Refined Soybean Oil. *Catalysis Letters*, **2013**, 143, 1235-1239	2.8	5
122	Formation reaction mechanisms of hydroxide anions from Mg(OH)2 layers. *Chemical Physics*, **2013**, 418, 1-7	2.3	7
121	Cationic and anionic metalloporphyrins simultaneously immobilized onto raw halloysite nanoscrolls catalyze oxidation reactions. *Applied Catalysis A: General*, **2013**, 460-461, 124-131	5.1	23
120	Layered double hydroxides intercalated with anionic surfactants/benzophenone as potential materials for sunscreens. *Journal of Colloid and Interface Science*, **2013**, 397, 88-95	9.3	39
119	Acid-activated montmorillonites as heterogeneous catalysts for the esterification of lauric acid acid with methanol. *Applied Clay Science*, **2013**, 80-81, 236-244	5.2	60
118	Iron(III) porphyrin supported on metahalloysite: an efficient and reusable catalyst for oxidation reactions. *Catalysis Science and Technology*, **2013**, 3, 1094	5.5	27
117	Poly(vinyl alcohol) nanocomposite films containing chemically exfoliated molybdenum disulfide. *Materials Chemistry and Physics*, **2013**, 137, 764-771	4.4	17
116	Esterification of Fatty Acids Using a Bismuth-Containing Solid Acid Catalyst. *Energy & Fuels*, **2013**, 27, 2218-2225	4.1	12
115	Effect of Layered Double Hydroxides on the Mechanical, Thermal, and Fire Properties of Poly(methyl methacrylate) Nanocomposites. *Advances in Polymer Technology*, **2013**, 32, E660-E674	1.9	9
114	Phosphor Dysprosium-Doped Layered Double Hydroxides Exchanged with Different Organic Functional Groups. *Journal of Nanomaterials*, **2013**, 2013, 1-8	3.2	7
113	Catalysts for heterogeneous oxidation reaction based on metalloporphyrins immobilized on kaolinite modified with triethanolamine. *Journal of Colloid and Interface Science*, **2012**, 374, 278-86	9.3	18
112	Immobilization of anionic iron(III) porphyrins onto in situ obtained zinc oxide. *Journal of Colloid and Interface Science*, **2012**, 377, 379-86	9.3	19
111	Colorful and transparent poly(vinyl alcohol) composite films filled with layered zinc hydroxide salts, intercalated with anionic orange azo dyes (methyl orange and orange II). *Materials Chemistry and Physics*, **2012**, 134, 392-398	4.4	19
110	Synergetic effect of LDH and glass fiber on the properties of two- and three-component epoxy composites. *Polymer Testing*, **2012**, 31, 741-747	4.5	24

109	Synthesis and characterization of LDHs/PMMA nanocomposites: Effect of two different intercalated anions on the mechanical and thermal properties. *Journal of Applied Polymer Science*, **2012**, 124, 1764-1770	2.9	14
108	Alkaline earth layered benzoates as reusable heterogeneous catalysts for the methyl esterification of benzoic acid. *Quimica Nova*, **2012**, 35, 1510-1516	1.6	5
107	Layered metal laurates as active catalysts in the methyl/ethyl esterification reactions of lauric acid. *Journal of the Brazilian Chemical Society*, **2012**, 23, 39-45	1.5	23
106	Montmorilonita modificada como catalisador heterogêneo em reações de esterificação (m)etílica de ácido láurico. *Quimica Nova*, **2012**, 35, 1711-1718	1.6	13
105	In situ synthesis, morphology, and thermal properties of polystyrene/MgAl layered double hydroxide nanocomposites. *Polymer Engineering and Science*, **2012**, 52, 1754-1760	2.3	15
104	LDHs Instability in Esterification Reactions and Their Conversion to Catalytically Active Layered Carboxylates. *Catalysis Letters*, **2012**, 142, 763-770	2.8	13
103	Anionic iron(III) porphyrins immobilized on zinc hydroxide chloride as catalysts for heterogeneous oxidation reactions. *Applied Catalysis A: General*, **2012**, 413-414, 94-102	5.1	33
102	The Effect of the Addition of Mg-Al LDH Intercalated with Dodecyl Sulfate on the Fire Retardancy Properties of Epoxy. *Macromolecular Symposia*, **2012**, 319, 129-135	0.8	5
101	Acid activated montmorillonite as catalysts in methyl esterification reactions of lauric acid. *Journal of Oleo Science*, **2012**, 61, 497-504	1.6	33
100	Avaliação da natureza da atividade catalítica de compostos de bismuto em reações de metanólise do óleo de soja. *Quimica Nova*, **2012**, 35, 108-113	1.6	3
99	Raw halloysite as reusable heterogeneous catalyst for esterification of lauric acid. *Applied Clay Science*, **2011**, 51, 165-169	5.2	98
98	Mechanical and flame-retardant properties of epoxy/MgAl LDH composites. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 196-202	8.4	119
97	The effect of steam explosion on the production of sugarcane bagasse/polyester composites. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 364-370	8.4	42
96	Study of thermal and mechanical properties of PMMA/LDHs nanocomposites obtained by in situ bulk polymerization. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 1025-1030	8.4	38
95	Effect of confinement of anionic organic ultraviolet ray absorbers into two-dimensional zinc hydroxide nitrate galleries. *Journal of the Brazilian Chemical Society*, **2011**, 22, 1183-1191	1.5	11
94	Síntese e caracterização de Nanocompósitos Esfoliados de Poliestireno: Hidróxido Duplo Lamelar via polimerização in situ. *Polimeros*, **2011**, 21, 34-38	1.6	19
93	Catalisadores heterogêneos para a produção de monoésteres graxos (biodiesel). *Quimica Nova*, **2011**, 34, 477-486	1.6	33
92	Esterification of Free Fatty Acids Using Layered Carboxylates and Hydroxide Salts as Catalysts. *Topics in Catalysis*, **2011**, 54, 474-481	2.3	9

91	PVA nanocomposites reinforced with Zn2Al LDHs, intercalated with orange dyes. *Journal of Solid State Electrochemistry*, **2011**, 15, 303-311	2.6	25
90	Theoretical estimates of the IR spectrum of formamide intercalated into kaolinite. *International Journal of Quantum Chemistry*, **2011**, 111, 2137-2148	2.1	10
89	Nanocomposites Based on Starch and Fibers of Natural Origin **2011**, 471-509		1
88	Bionanocomposites of thermoplastic starch reinforced with bacterial cellulose nanofibres: Effect of enzymatic treatment on mechanical properties. *Carbohydrate Polymers*, **2010**, 80, 866-873	10.3	82
87	Immobilization of anionic metalloporphyrins on zinc hydroxide nitrate and study of an unusual catalytic activity. *Journal of Catalysis*, **2010**, 274, 130-141	7.3	63
86	New oxidation catalysts based on iron(III) porphyrins immobilized on MgAl layered double hydroxides modified with triethanolamine. *Applied Catalysis A: General*, **2010**, 386, 51-59	5.1	36
85	Intercalation of anionic organic ultraviolet ray absorbers into layered zinc hydroxide nitrate. *Journal of Colloid and Interface Science*, **2010**, 347, 49-55	9.3	70
84	Effect of adsorbed/intercalated anionic dyes into the mechanical properties of PVA: layered zinc hydroxide nitrate nanocomposites. *Journal of Colloid and Interface Science*, **2010**, 351, 384-91	9.3	42
83	Reversible intercalation of ammonia molecules into a layered double hydroxide structure without exchanging nitrate counter-ions. *Journal of Solid State Chemistry*, **2010**, 183, 2324-2328	3.3	11
82	Studies of the processing and characterization of corn starch and its composites with banana and sugarcane fibers from Brazil. *Carbohydrate Polymers*, **2010**, 80, 130-138	10.3	113
81	Nanocomposites: synthesis, structure, properties and new application opportunities. *Materials Research*, **2009**, 12, 1-39	1.5	802
80	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil. *Industrial Crops and Products*, **2009**, 30, 407-415	5.9	231
79	Evidence of weathering stages of phyllosilicates from biotite/muscovite to kaolinite, probed by EPR spectroscopy. *Mineralogy and Petrology*, **2009**, 97, 139-144	1.6	11
78	Immobilization of enzymatic extract from Penicillium camemberti with lipoxygenase activity onto a hybrid layered double hydroxide. *Biochemical Engineering Journal*, **2009**, 48, 93-98	4.2	9
77	Theoretical estimates of the IR spectrum of water intercalated into kaolinite. *International Journal of Quantum Chemistry*, **2009**, 109, 594-604	2.1	6
76	Nanocomposites coated with xyloglucan for drug delivery: In vitro studies. *International Journal of Pharmaceutics*, **2009**, 367, 204-10	6.5	49
75	Immobilization of anionic iron(III) porphyrins into ordered macroporous layered double hydroxides and investigation of catalytic activity in oxidation reactions. *Journal of Molecular Catalysis A*, **2009**, 310, 42-50		55
74	Intercalation of an oxalatooxoniobate complex into layered double hydroxide and layered zinc hydroxide nitrate. *Journal of Colloid and Interface Science*, **2009**, 330, 352-8	9.3	51

73	New multifunctional materials obtained by the intercalation of anionic dyes into layered zinc hydroxide nitrate followed by dispersion into poly(vinyl alcohol) (PVA). *Journal of Colloid and Interface Science*, **2009**, 330, 303-9	9.3	79
72	Zn2Al layered double hydroxides intercalated and adsorbed with anionic blue dyes: a physico-chemical characterization. *Journal of Colloid and Interface Science*, **2009**, 333, 120-7	9.3	67
71	Dehydrated halloysite intercalated mechanochemically with urea: thermal behavior and structural aspects. *Journal of Colloid and Interface Science*, **2009**, 338, 474-9	9.3	77
70	Biodegradable composites based on lignocellulosic fibers—An overview. *Progress in Polymer Science*, **2009**, 34, 982-1021	29.6	887
69	Studies of the effect of molding pressure and incorporation of sugarcane bagasse fibers on the structure and properties of poly (hydroxy butyrate). *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 573-582	8.4	40
68	Immobilization of laccase on hybrid layered double hydroxide. *Quimica Nova*, **2009**, 32, 1495-1499	1.6	18
67	Synthesis, characterization, and catalytic activity of anionic iron(III) porphyrins intercalated into layered double hydroxides. *Journal of Catalysis*, **2008**, 257, 233-243	7.3	91
66	A new zinc hydroxide nitrate heterogeneous catalyst for the esterification of free fatty acids and the transesterification of vegetable oils. *Catalysis Communications*, **2008**, 9, 2140-2143	3.2	71
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