

Fernando Wypych

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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	Biodegradable composites based on lignocellulosic fibers: An overview. <i>Progress in Polymer Science</i> , 2009 , 34, 982-1021	29.6	887
215	Nanocomposites: synthesis, structure, properties and new application opportunities. <i>Materials Research</i> , 2009 , 12, 1-39	1.5	802
214	Semiconductor-assisted photocatalytic degradation of reactive dyes in aqueous solution. <i>Chemosphere</i> , 2000 , 40, 433-40	8.4	411
213	Studies on lignocellulosic fibers of Brazil. Part I: Source, production, morphology, properties and applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 1694-1709	8.4	404
212	Starch films reinforced with mineral clay. <i>Carbohydrate Polymers</i> , 2003 , 52, 101-110	10.3	325
211	1T-MoS ₂ , a new metallic modification of molybdenum disulfide. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 1386-1388		323
210	Layered hydroxide salts: Synthesis, properties and potential applications. <i>Solid State Ionics</i> , 2007 , 178, 1143-1162	3.3	270
209	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil. <i>Industrial Crops and Products</i> , 2009 , 30, 407-415	5.9	231
208	Semiconductor-assisted photodegradation of lignin, dye, and kraft effluent by Ag-doped ZnO. <i>Chemosphere</i> , 2000 , 40, 427-32	8.4	140
207	Immobilization of metalloporphyrins into nanotubes of natural halloysite toward selective catalysts for oxidation reactions. <i>Journal of Molecular Catalysis A</i> , 2008 , 283, 99-107		125
206	Fractionation of Eucalyptus grandis chips by dilute acid-catalysed steam explosion. <i>Bioresource Technology</i> , 2003 , 86, 105-15	11	121
205	Mechanical and flame-retardant properties of epoxy/MgAl LDH composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 196-202	8.4	119
204	Studies of the processing and characterization of corn starch and its composites with banana and sugarcane fibers from Brazil. <i>Carbohydrate Polymers</i> , 2010 , 80, 130-138	10.3	113
203	Functionalization of single layers and nanofibers: a new strategy to produce polymer nanocomposites with optimized properties. <i>Journal of Colloid and Interface Science</i> , 2005 , 285, 532-43	9.3	99
202	Raw halloysite as reusable heterogeneous catalyst for esterification of lauric acid. <i>Applied Clay Science</i> , 2011 , 51, 165-169	5.2	98
201	Synthesis, characterization, and catalytic activity of anionic iron(III) porphyrins intercalated into layered double hydroxides. <i>Journal of Catalysis</i> , 2008 , 257, 233-243	7.3	91
200	Bionanocomposites of thermoplastic starch reinforced with bacterial cellulose nanofibres: Effect of enzymatic treatment on mechanical properties. <i>Carbohydrate Polymers</i> , 2010 , 80, 866-873	10.3	82

199	Scanning Tunneling Microscopic Investigation of 1T-MoS ₂ . <i>Chemistry of Materials</i> , 1998 , 10, 723-727	9.6	80
198	New multifunctional materials obtained by the intercalation of anionic dyes into layered zinc hydroxide nitrate followed by dispersion into poly(vinyl alcohol) (PVA). <i>Journal of Colloid and Interface Science</i> , 2009 , 330, 303-9	9.3	79
197	Dehydrated halloysite intercalated mechanochemically with urea: thermal behavior and structural aspects. <i>Journal of Colloid and Interface Science</i> , 2009 , 338, 474-9	9.3	77
196	A new zinc hydroxide nitrate heterogeneous catalyst for the esterification of free fatty acids and the transesterification of vegetable oils. <i>Catalysis Communications</i> , 2008 , 9, 2140-2143	3.2	71
195	First insight into catalytic activity of anionic iron porphyrins immobilized on exfoliated layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2005 , 281, 417-23	9.3	71
194	Intercalation of anionic organic ultraviolet ray absorbers into layered zinc hydroxide nitrate. <i>Journal of Colloid and Interface Science</i> , 2010 , 347, 49-55	9.3	70
193	Chemical modification of zinc hydroxide nitrate and Zn-Al-layered double hydroxide with dicarboxylic acids. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 168-76	9.3	69
192	Zn ₂ Al layered double hydroxides intercalated and adsorbed with anionic blue dyes: a physico-chemical characterization. <i>Journal of Colloid and Interface Science</i> , 2009 , 333, 120-7	9.3	67
191	The influence of layered compounds on the properties of starch/layered compound composites. <i>Polymer International</i> , 2003 , 52, 1035-1044	3.3	66
190	Study of the catalytic behavior of montmorillonite/iron(III) and Mn(III) cationic porphyrins. <i>Journal of Colloid and Interface Science</i> , 2002 , 254, 158-64	9.3	64
189	Covalent Grafting of Ethylene Glycol into the Zn-Al-CO ₃ Layered Double Hydroxide. <i>Journal of Colloid and Interface Science</i> , 2000 , 227, 445-451	9.3	64
188	Immobilization of anionic metalloporphyrins on zinc hydroxide nitrate and study of an unusual catalytic activity. <i>Journal of Catalysis</i> , 2010 , 274, 130-141	7.3	63
187	Catalytic activity of anionic iron(III) porphyrins immobilized on grafted disordered silica obtained from acidic leached chrysotile. <i>Journal of Molecular Catalysis A</i> , 2006 , 243, 44-51		63
186	Anionic iron(III) porphyrin immobilized on silanized kaolinite as catalyst for oxidation reactions. <i>Journal of Molecular Catalysis A</i> , 2004 , 217, 121-131		62
185	Acid-activated montmorillonites as heterogeneous catalysts for the esterification of lauric acid acid with methanol. <i>Applied Clay Science</i> , 2013 , 80-81, 236-244	5.2	60
184	Immobilization of iron porphyrins in tubular kaolinite obtained by an intercalation/delamination procedure. <i>Journal of Catalysis</i> , 2006 , 242, 110-117	7.3	59
183	Immobilization of iron(III) porphyrins on exfoliated MgAl layered double hydroxide, grafted with (3-aminopropyl)triethoxysilane. <i>Journal of Catalysis</i> , 2005 , 234, 431-437	7.3	58
182	Synthesis and characterization of disordered layered silica obtained by selective leaching of octahedral sheets from chrysotile and phlogopite structures. <i>Journal of Colloid and Interface Science</i> , 2005 , 283, 107-12	9.3	57

181	Organic inorganic dye filler for polymer: blue-coloured layered double hydroxides into polystyrene. <i>Journal of Colloid and Interface Science</i> , 2008 , 326, 366-73	9.3	56
180	Electron Diffraction Study of Intercalation Compounds Derived from 1T-MoS ₂ . <i>Journal of Solid State Chemistry</i> , 1999 , 144, 430-436	3.3	56
179	Immobilization of anionic iron(III) porphyrins into ordered macroporous layered double hydroxides and investigation of catalytic activity in oxidation reactions. <i>Journal of Molecular Catalysis A</i> , 2009 , 310, 42-50		55
178	Exfoliation and immobilization of anionic iron porphyrin in layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2003 , 264, 203-7	9.3	55
177	Preparation of a New Nanocomposite of Al _{0.33} Mg _{0.67} (OH) ₂ (C ₁₂ H ₂₅ SO ₄) _{0.33} and Poly(ethylene oxide). <i>Langmuir</i> , 2002 , 18, 5967-5970	4	55
176	Intercalation and functionalization of zinc hydroxide nitrate with mono- and dicarboxylic acids. <i>Journal of Colloid and Interface Science</i> , 2005 , 283, 130-8	9.3	52
175	Intercalation of an oxalatoxonobate complex into layered double hydroxide and layered zinc hydroxide nitrate. <i>Journal of Colloid and Interface Science</i> , 2009 , 330, 352-8	9.3	51
174	Covalent Grafting of Phenylphosphonate Groups onto the Interlamellar Aluminol Surface of Kaolinite. <i>Journal of Colloid and Interface Science</i> , 1998 , 206, 281-287	9.3	51
173	Nanocomposites coated with xyloglucan for drug delivery: In vitro studies. <i>International Journal of Pharmaceutics</i> , 2009 , 367, 204-10	6.5	49
172	Intercalation of Benzamide into Kaolinite. <i>Journal of Colloid and Interface Science</i> , 2000 , 221, 284-290	9.3	44
171	The effect of steam explosion on the production of sugarcane bagasse/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 364-370	8.4	42
170	Effect of adsorbed/intercalated anionic dyes into the mechanical properties of PVA: layered zinc hydroxide nitrate nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2010 , 351, 384-91	9.3	42
169	Studies of the effect of molding pressure and incorporation of sugarcane bagasse fibers on the structure and properties of poly (hydroxy butyrate). <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 573-582	8.4	40
168	Layered double hydroxides intercalated with anionic surfactants/benzophenone as potential materials for sunscreens. <i>Journal of Colloid and Interface Science</i> , 2013 , 397, 88-95	9.3	39
167	Study of thermal and mechanical properties of PMMA/LDHs nanocomposites obtained by in situ bulk polymerization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1025-1030	8.4	38
166	Nanofibrous and nanotubular supports for the immobilization of metalloporphyrins as oxidation catalysts. <i>Journal of Colloid and Interface Science</i> , 2007 , 315, 142-57	9.3	38
165	Cu ²⁺ ions as a paramagnetic probe to study the surface chemical modification process of layered double hydroxides and hydroxide salts with nitrate and carboxylate anions. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 238-44	9.3	38
164	Catalytic activity in oxidation reactions of anionic iron(III) porphyrins immobilized on raw and grafted chrysotile. <i>Journal of the Brazilian Chemical Society</i> , 2006 , 17, 1672-1678	1.5	38

163	Recent Advances in Solid Catalysts Obtained by Metalloporphyrins Immobilization on Layered Anionic Exchangers: A Short Review and Some New Catalytic Results. <i>Molecules</i> , 2016 , 21, 291	4.8	38
162	Layered clay minerals, synthetic layered double hydroxides and hydroxide salts applied as pickering emulsifiers. <i>Applied Clay Science</i> , 2019 , 169, 10-20	5.2	37
161	New oxidation catalysts based on iron(III) porphyrins immobilized on Mg/Al layered double hydroxides modified with triethanolamine. <i>Applied Catalysis A: General</i> , 2010 , 386, 51-59	5.1	36
160	Use of Fe(3+) ion probe to study the stability of urea-intercalated kaolinite by electron paramagnetic resonance. <i>Journal of Colloid and Interface Science</i> , 2007 , 313, 537-41	9.3	36
159	Covalent grafting of phenylphosphonate groups onto layered silica derived from in situ-leached chrysotile fibers. <i>Journal of Materials Chemistry</i> , 2003 , 13, 304-307		36
158	Preparation and Characterization of a Kaolinite-1-methyl-2-Pyrrolidone Intercalation Compound. <i>Journal of Colloid and Interface Science</i> , 1999 , 211, 137-141	9.3	36
157	Cation Exchange Reactions in Layered Double Hydroxides Intercalated with Sulfate and Alkaline Cations (A(HO))[MAl(OH)(SO)] \cdot 6H ₂ O (M = Mn, Mg, Zn; A = Li, Na, K). <i>Journal of the American Chemical Society</i> , 2019 , 141, 531-540	16.4	36
156	Synthesis, characterization and catalytic behavior of iron porphyrins immobilized in layered double hydroxides. <i>Journal of Porphyrins and Phthalocyanines</i> , 2002 , 06, 502-513	1.8	34
155	Esfoliação e hidratação da caulinita após intercalação com uréia. <i>Química Nova</i> , 2001 , 24, 761	1.6	34
154	Anionic iron(III) porphyrins immobilized on zinc hydroxide chloride as catalysts for heterogeneous oxidation reactions. <i>Applied Catalysis A: General</i> , 2012 , 413-414, 94-102	5.1	33
153	Catalisadores heterogêneos para a produção de monoésteres graxos (biodiesel). <i>Química Nova</i> , 2011 , 34, 477-486	1.6	33
152	Acid activated montmorillonite as catalysts in methyl esterification reactions of lauric acid. <i>Journal of Oleo Science</i> , 2012 , 61, 497-504	1.6	33
151	Design and Kinetic Study of Sustainable Potential Slow-Release Fertilizer Obtained by Mechanochemical Activation of Clay Minerals and Potassium Monohydrogen Phosphate. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 708-716	3.9	30
150	Glycol metalloporphyrin derivatives in solution or immobilized on LDH and silica: synthesis, characterization and catalytic features in oxidation reactions. <i>Catalysis Science and Technology</i> , 2014 , 4, 129-141	5.5	30
149	Comportamento térmico da caulinita hidratada. <i>Química Nova</i> , 2003 , 26, 30-35	1.6	30
148	Scanning tunneling microscopic investigation of K _x (H ₂ O) _y MoS ₂ . <i>Surface Science</i> , 1997 , 380, L474-L478	1.8	29
147	Solid-state mechanochemical activation of clay minerals and soluble phosphate mixtures to obtain slow-release fertilizers. <i>Clay Minerals</i> , 2015 , 50, 153-162	1.3	28
146	Iron(III) porphyrin supported on metahalloysite: an efficient and reusable catalyst for oxidation reactions. <i>Catalysis Science and Technology</i> , 2013 , 3, 1094	5.5	27

145	Synthesis of new metalloporphyrin derivatives from [5,10,15,20-tetrakis (pentafluorophenyl)porphyrin] and 4-mercaptobenzoic acid for homogeneous and heterogeneous catalysis. <i>Applied Catalysis A: General</i> , 2015 , 503, 9-19	5.1	27
144	Metastable layered chalcogenides 1T-MoS ₂ , 2M-WS ₂ and : Electrochemical study on their intercalation reactions. <i>Materials Research Bulletin</i> , 1992 , 27, 545-553	5.1	27
143	Kinetics evaluation of the ethyl esterification of long chain fatty acids using commercial montmorillonite K10 as catalyst. <i>Fuel</i> , 2017 , 193, 265-274	7.1	26
142	Galactodendritic porphyrinic conjugates as new biomimetic catalysts for oxidation reactions. <i>Inorganic Chemistry</i> , 2015 , 54, 4382-93	5.1	26
141	Encapsulation of Fe(III) and Cu(II) complexes in NaY zeolite. <i>Journal of Colloid and Interface Science</i> , 2004 , 277, 138-45	9.3	26
140	Structural and Morphological Characterization of the PP-0559 Kaolinite from the Brazilian Amazon Region. <i>Journal of the Brazilian Chemical Society</i> , 2002 , 13, 270-275	1.5	26
139	Intercalation of indigo carmine anions into zinc hydroxide salt: A novel alternative blue pigment. <i>Dyes and Pigments</i> , 2016 , 128, 158-164	4.6	25
138	Synthetic zinc layered hydroxide salts intercalated with anionic azo dyes as fillers into high-density polyethylene composites: first insights. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	25
137	PVA nanocomposites reinforced with Zn ₂ Al LDHs, intercalated with orange dyes. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 303-311	2.6	25
136	Synergetic effect of LDH and glass fiber on the properties of two- and three-component epoxy composites. <i>Polymer Testing</i> , 2012 , 31, 741-747	4.5	24
135	Kinetics of non-catalytic and ZnL ₂ -catalyzed esterification of lauric acid with ethanol. <i>Fuel</i> , 2014 , 117, 125-132	7.1	23
134	Cationic and anionic metalloporphyrins simultaneously immobilized onto raw halloysite nanoscrolls catalyze oxidation reactions. <i>Applied Catalysis A: General</i> , 2013 , 460-461, 124-131	5.1	23
133	Layered metal laurates as active catalysts in the methyl/ethyl esterification reactions of lauric acid. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 39-45	1.5	23
132	Grafting of phenylarsonic and 2-nitrophenol-4-arsonic acid onto disordered silica obtained by selective leaching of brucite-like sheet from chrysotile structure. <i>Journal of Colloid and Interface Science</i> , 2004 , 276, 167-73	9.3	23
131	Biodiesel: Raw Materials, Production Technologies and Fuel Properties. <i>Revista Virtual De Quimica</i> , 2017 , 9, 317-369	1.3	23
130	Similarities between Zinc Hydroxide Chloride Monohydrate and Its Dehydrated Form: A Theoretical Study of Their Structures and Anionic Exchange Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19106-19113	3.8	22
129	Covalent grafting of ethylene glycol and glycerol into brucite. <i>Journal of Colloid and Interface Science</i> , 2002 , 253, 180-4	9.3	22
128	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate [Kinetic modeling. <i>Fuel</i> , 2015 , 153, 445-454	7.1	21

127	Evaluation of layered zinc hydroxide nitrate and zinc/nickel double hydroxide salts in the removal of chromate ions from solutions. <i>Journal of Solid State Chemistry</i> , 2016 , 243, 136-145	3.3	21
126	Heterogeneous oxidation of the dye Brilliant Green with H ₂ O ₂ catalyzed by supported manganese porphyrins. <i>Journal of Molecular Catalysis A</i> , 2015 , 408, 123-131		20
125	Sequestered carbon on clay mineral probed by electron paramagnetic resonance and X-ray photoelectron spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2006 , 295, 135-40	9.3	20
124	Structural and magnetic properties of Fe and Co nanoparticles embedded in powdered Al ₂ O ₃ . <i>Journal of Colloid and Interface Science</i> , 2005 , 289, 63-70	9.3	20
123	Zinc-Layered Hydroxide Salt Intercalated with Molybdate Anions as a New Smart Nanocontainer for Active Corrosion Protection of Carbon Steel. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19823-19833	9.5	20
122	MAS NMR and EPR study of structural changes in talc and montmorillonite induced by grinding. <i>Clay Minerals</i> , 2016 , 51, 69-80	1.3	19
121	Bioactive nanocomposites of bacterial cellulose and natural hydrocolloids. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7034-7044	7.3	19
120	Immobilization of anionic iron(III) porphyrins onto in situ obtained zinc oxide. <i>Journal of Colloid and Interface Science</i> , 2012 , 377, 379-86	9.3	19
119	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). <i>Materials Chemistry and Physics</i> , 2012 , 134, 392-398	4.4	19
118	Síntese e caracterização de Nanocompósitos Esfoliados de Poliestireno: Hidróxido Duplo Lamelar via polimerização in situ. <i>Polímeros</i> , 2011 , 21, 34-38	1.6	19
117	Catalysts for heterogeneous oxidation reaction based on metalloporphyrins immobilized on kaolinite modified with triethanolamine. <i>Journal of Colloid and Interface Science</i> , 2012 , 374, 278-86	9.3	18
116	Immobilization of laccase on hybrid layered double hydroxide. <i>Química Nova</i> , 2009 , 32, 1495-1499	1.6	18
115	Structural and thermodynamic investigation of the hydration-dehydration process of Na ⁺ -Montmorillonite using DFT calculations. <i>Applied Clay Science</i> , 2017 , 143, 212-219	5.2	17
114	DFT study of the intercalation of layered double hydroxides and layered hydroxide salts with dodecylsulfate and dodecylbenzene sulfonate: Exfoliation and hydration properties. <i>Applied Clay Science</i> , 2017 , 143, 107-114	5.2	17
113	Converting Mn/Al layered double hydroxide anion exchangers into cation exchangers by topotactic reactions using alkali metal sulfate solutions. <i>Chemical Communications</i> , 2019 , 55, 7824-7827	5.8	17
112	Poly(vinyl alcohol) nanocomposite films containing chemically exfoliated molybdenum disulfide. <i>Materials Chemistry and Physics</i> , 2013 , 137, 764-771	4.4	17
111	Selective oxidation catalysts obtained by immobilization of iron(III) porphyrins on thiosalicylic acid-modified Mg-Al layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2016 , 478, 374-83	9.3	17
110	Influence of two different alcohols in the esterification of fatty acids over layered zinc stearate/palmitate. <i>Bioresource Technology</i> , 2015 , 193, 337-44	11	16

109	Rare earth and zinc layered hydroxide salts intercalated with the 2-aminobenzoate anion as organic luminescent sensitizer. <i>Materials Research Bulletin</i> , 2015 , 70, 336-342	5.1	16
108	Fracture toughness, hardness, and elastic modulus of kyanite investigated by a depth-sensing indentation technique. <i>American Mineralogist</i> , 2008 , 93, 844-852	2.9	16
107	Theoretical study of the anion exchange properties and the thermal decomposition of $Zn_5(OH)_8(NO_3)_2 \cdot 2H_2O$ and $Zn_5(OH)_8(NO_3)_2 \cdot 2NH_3$. <i>Applied Clay Science</i> , 2015 , 114, 103-111	5.2	15
106	In situ synthesis, morphology, and thermal properties of polystyrene/MgAl layered double hydroxide nanocomposites. <i>Polymer Engineering and Science</i> , 2012 , 52, 1754-1760	2.3	15
105	A cationic iron(III) porphyrin encapsulated between the layered structure of MoS_2 . A new approach to the synthesis of an Fe/MoS system. <i>Inorganica Chimica Acta</i> , 1997 , 254, 213-217	2.7	15
104	Synthesis and characterization of LDHs/PMMA nanocomposites: Effect of two different intercalated anions on the mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 1764-1770	2.9	14
103	Synthesis, cation exchange and dehydration/rehydration of sodium gordaite: $NaZn_4(OH)_6(SO_4)_2Cl \cdot 2H_2O$. <i>Applied Clay Science</i> , 2017 , 146, 100-105	5.2	13
102	Potential Sustainable Slow-Release Fertilizers Obtained by Mechanochemical Activation of MgAl and MgFe Layered Double Hydroxides and KH_2PO_4 . <i>Nanomaterials</i> , 2019 , 9,	5.4	13
101	Immobilization of Pseudomonas cepacia lipase on layered double hydroxide of Zn/Al-Cl for kinetic resolution of rac-1-phenylethanol. <i>Enzyme and Microbial Technology</i> , 2019 , 130, 109365	3.8	13
100	The Use of Acid-Activated Montmorillonite as a Solid Catalyst for the Production of Fatty Acid Methyl Esters. <i>Energy & Fuels</i> , 2014 , 28, 5834-5840	4.1	13
99	Montmorillonita modificada como catalisador heterogêneo em reações de esterificação (metilica de ácido lúrico. <i>Química Nova</i> , 2012 , 35, 1711-1718	1.6	13
98	LDHs Instability in Esterification Reactions and Their Conversion to Catalytically Active Layered Carboxylates. <i>Catalysis Letters</i> , 2012 , 142, 763-770	2.8	13
97	Criterious preparation and characterization of earthworm-composts in view of animal waste recycling. Part I. Correlation between chemical, thermal and FTIR spectroscopic analyses of four humic acids from earthworm-composted animal manure. <i>Journal of the Brazilian Chemical Society</i> , 2000 , 11, 164	1.5	13
96	Na^+ as a probe to structural investigation of dehydrated smectites using NMR spectra calculated by DFT. <i>Applied Clay Science</i> , 2016 , 126, 132-140	5.2	13
95	Mechanochemical conversion of chrysotile/ KH_2PO_4 mixtures into potential sustainable and environmentally friendly slow-release fertilizers. <i>Journal of Environmental Management</i> , 2018 , 206, 962-970	7.0	13
94	Comparison between catalytic activities of two zinc layered hydroxide salts in brilliant green organic dye bleaching. <i>Journal of Colloid and Interface Science</i> , 2019 , 541, 425-433	9.3	12
93	Zinc layered hydroxide salts: intercalation and incorporation into low-density polyethylene. <i>Polimeros</i> , 2014 , 24, 673-682	1.6	12
92	Pulsed hydrostatic pressure and ultrasound assisted extraction of soluble matter from mate leaves (<i>Ilex paraguariensis</i>): Experiments and modeling. <i>Separation and Purification Technology</i> , 2014 , 132, 1-9	8.3	12

91	Esterification of Fatty Acids Using a Bismuth-Containing Solid Acid Catalyst. <i>Energy & Fuels</i> , 2013 , 27, 2218-2225	4.1	12
90	Preparaç� de nanocomp�itos atrav� do encapsulamento de pol�meros condutores em 2H-MoS ₂ e 1T-TiS ₂ . <i>Quimica Nova</i> , 1997 , 20, 356	1.6	12
89	Modification of the Interlayer Surface of Layered Copper(II) Hydroxide Acetate with Benzoate Groups: Submicrometer Fiber Generation. <i>Journal of Colloid and Interface Science</i> , 2001 , 240, 245-251	9.3	12
88	Oxidation catalyst obtained by the immobilization of layered double hydroxide/Mn(III) porphyrin on monodispersed silica spheres. <i>Dalton Transactions</i> , 2018 , 47, 3068-3073	4.3	12
87	Effect of confinement of anionic organic ultraviolet ray absorbers into two-dimensional zinc hydroxide nitrate galleries. <i>Journal of the Brazilian Chemical Society</i> , 2011 , 22, 1183-1191	1.5	11
86	Evidence of weathering stages of phyllosilicates from biotite/muscovite to kaolinite, probed by EPR spectroscopy. <i>Mineralogy and Petrology</i> , 2009 , 97, 139-144	1.6	11
85	Reversible intercalation of ammonia molecules into a layered double hydroxide structure without exchanging nitrate counter-ions. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2324-2328	3.3	11
84	Remediation of phenol, lignin and paper effluents by advanced oxidative processes. <i>Environmental Technology (United Kingdom)</i> , 2004 , 25, 1331-9	2.6	11
83	Kinetics of ethylic esterification of lauric acid on acid activated montmorillonite (STx1-b) as catalyst. <i>Fuel</i> , 2016 , 181, 600-609	7.1	11
82	Immobilization of a cationic manganese(III) porphyrin on lithium gordaite (LiZn ₄ (OH) ₆ (SO ₄)Cl·6H ₂ O), a layered hydroxide salt with cation exchange capacity. <i>Applied Clay Science</i> , 2017 , 139, 108-111	5.2	10
81	DFT Study of Layered Double Hydroxides with Cation Exchange Capacity: (A+(H ₂ O) ₆)[M ₆ 2+Al ₃ (OH) ₁₈ (SO ₄) ₂]·6H ₂ O (M ₂ + = Mg, Zn and A+ = Na, K). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9838-9845	3.8	10
80	Synthesis, characterization, thermal behavior and exchange reactions of new phases of layered double hydroxides with the chemical composition [M+26Al ₃ (OH) ₁₈ (SO ₄) ₂].(A(H ₂ O) ₆).6H ₂ O (M+2 = Co, Ni; A = Li+, Na+, K+). <i>Applied Clay Science</i> , 2019 , 181, 105217	5.2	10
79	Unusual catalytic activity after simultaneous immobilization of two metalloporphyrins on hydrozincite/nanocrystalline anatase. <i>Journal of Catalysis</i> , 2017 , 352, 442-451	7.3	10
78	Theoretical estimates of the IR spectrum of formamide intercalated into kaolinite. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 2137-2148	2.1	10
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