

Fernando Wypych

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Biodegradable composites based on lignocellulosic fibers—An overview. <i>Progress in Polymer Science</i> , 2009, 34, 982-1021.	24.7	1,098
2	Nanocomposites: synthesis, structure, properties and new application opportunities. <i>Materials Research</i> , 2009, 12, 1-39.	1.3	1,035
3	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.	7.6	483
4	Semiconductor-assisted photocatalytic degradation of reactive dyes in aqueous solution. <i>Chemosphere</i> , 2000, 40, 433-440.	8.2	464
5	1T-MoS ₂ , a new metallic modification of molybdenum disulfide. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1386-1388.	2.0	369
6	Starch films reinforced with mineral clay. <i>Carbohydrate Polymers</i> , 2003, 52, 101-110.	10.2	351
7	Layered hydroxide salts: Synthesis, properties and potential applications. <i>Solid State Ionics</i> , 2007, 178, 1143-1162.	2.7	316
8	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil. <i>Industrial Crops and Products</i> , 2009, 30, 407-415.	5.2	296
9	Semiconductor-assisted photodegradation of lignin, dye, and kraft effluent by Ag-doped ZnO. <i>Chemosphere</i> , 2000, 40, 427-432.	8.2	155
10	Mechanical and flame-retardant properties of epoxy/Mg-Al LDH composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 196-202.	7.6	146
11	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.	10.2	138
12	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.	4.8	137
13	Fractionation of <i>Eucalyptus grandis</i> chips by dilute acid-catalysed steam explosion. <i>Bioresource Technology</i> , 2003, 86, 105-115.	9.6	135
14	Raw halloysite as reusable heterogeneous catalyst for esterification of lauric acid. <i>Applied Clay Science</i> , 2011, 51, 165-169.	5.2	113
15	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, 532-543.	9.4	109
16	Synthesis, characterization, and catalytic activity of anionic iron(III) porphyrins intercalated into layered double hydroxides. <i>Journal of Catalysis</i> , 2008, 257, 233-243.	6.2	99
17	Scanning Tunneling Microscopic Investigation of 1T-MoS ₂ . <i>Chemistry of Materials</i> , 1998, 10, 723-727.	6.7	95
18	Bionanocomposites of thermoplastic starch reinforced with bacterial cellulose nanofibres: Effect of enzymatic treatment on mechanical properties. <i>Carbohydrate Polymers</i> , 2010, 80, 866-873.	10.2	94

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19	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, 303-309.	9.4	90
20	Dehydrated halloysite intercalated mechanochemically with urea: Thermal behavior and structural aspects. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 474-479.	9.4	86
21	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, 120-127.	9.4	85
22	Intercalation of anionic organic ultraviolet ray absorbers into layered zinc hydroxide nitrate. <i>Journal of Colloid and Interface Science</i> , 2010, 347, 49-55.	9.4	83
23	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.	3.3	81
24	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, 417-423.	9.4	78
25	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, 168-176.	9.4	78
26	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	76
27	Study of the Catalytic Behavior of Montmorillonite/Iron(III) and Mn(III) Cationic Porphyrins. <i>Journal of Colloid and Interface Science</i> , 2002, 254, 158-164.	9.4	72
28	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.	9.4	71
29	Immobilization of anionic metalloporphyrins on zinc hydroxide nitrate and study of an unusual catalytic activity. <i>Journal of Catalysis</i> , 2010, 274, 130-141.	6.2	70
30	Anionic iron(III) porphyrin immobilized on silanized kaolinite as catalyst for oxidation reactions. <i>Journal of Molecular Catalysis A</i> , 2004, 217, 121-131.	4.8	69
31	Intercalation of an oxalatoxonioabate complex into layered double hydroxide and layered zinc hydroxide nitrate. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 352-358.	9.4	68
32	The influence of layered compounds on the properties of starch/layered compound composites. <i>Polymer International</i> , 2003, 52, 1035-1044.	3.1	67
33	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, 107-112.	9.4	67
34	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.	4.8	67
35	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.	6.2	65
36	Intercalation and functionalization of zinc hydroxide nitrate with mono- and dicarboxylic acids. <i>Journal of Colloid and Interface Science</i> , 2005, 283, 130-138.	9.4	64

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37	Immobilization of iron porphyrins in tubular kaolinite obtained by an intercalation/delamination procedure. <i>Journal of Catalysis</i> , 2006, 242, 110-117.	6.2	63
38	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.	3.5	62
39	Electron Diffraction Study of Intercalation Compounds Derived from 1T-MoS ₂ . <i>Journal of Solid State Chemistry</i> , 1999, 144, 430-436.	2.9	61
40	Organic inorganic dye filler for polymer: Blue-coloured layered double hydroxides into polystyrene. <i>Journal of Colloid and Interface Science</i> , 2008, 326, 366-373.	9.4	60
41	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.	4.8	60
42	Exfoliation and immobilization of anionic iron porphyrin in layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2003, 264, 203-207.	9.4	59
43	Covalent Grafting of Phenylphosphonate Groups onto the Interlamellar Aluminol Surface of Kaolinite. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 281-287.	9.4	58
44	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	58
45	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.	7.6	55
46	Cation Exchange Reactions in Layered Double Hydroxides Intercalated with Sulfate and Alkaline Cations ($A(H_{2O})_6[M^{2+}_6Al_3(OH)_{18}(SO_4)_2]$) ($M^{2+} = Mn, Mg, Zn; A^+ = Li, Na, K$). <i>Journal of the American Chemical Society</i> , 2019, 141, 531-540.	10.4	53
47	Catalisadores heterogêneos para a produção de monoésteres graxos (biodiesel). <i>Química Nova</i> , 2011, 34, 477-486.	0.3	52
48	Nanocomposites coated with xyloglucan for drug delivery: In vitro studies. <i>International Journal of Pharmaceutics</i> , 2009, 367, 204-210.	5.2	50
49	Intercalation of Benzamide into Kaolinite. <i>Journal of Colloid and Interface Science</i> , 2000, 221, 284-290.	9.4	48
50	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.	9.4	48
51	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.	3.8	47
52	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, 384-391.	9.4	46
53	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.	3.7	45
54	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.	0.6	44

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55	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.	7.6	44
56	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.	4.3	43
57	Solid-state mechanochemical activation of clay minerals and soluble phosphate mixtures to obtain slow-release fertilizers. <i>Clay Minerals</i> , 2015, 50, 153-162.	0.6	43
58	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, 537-541.	9.4	42
59	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.	8.0	42
60	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.	7.6	41
61	Preparation and Characterization of a Kaolinite-1-methyl-2-Pyrrolidone Intercalation Compound. <i>Journal of Colloid and Interface Science</i> , 1999, 211, 137-141.	9.4	40
62	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, 238-244.	9.4	40
63	Nanofibrous and nanotubular supports for the immobilization of metalloporphyrins as oxidation catalysts. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 142-157.	9.4	39
64	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.	6.7	38
65	Acid Activated Montmorillonite as Catalysts in Methyl Esterification Reactions of Lauric Acid. <i>Journal of Oleo Science</i> , 2012, 61, 497-504.	1.4	38
66	Esfoliação e hidratação da caulinita após intercalação com uréia. <i>Química Nova</i> , 2001, 24, 761.	0.3	37
67	Synthesis, characterization and catalytic behavior of iron porphyrins immobilized in layered double hydroxides. <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 502-513.	0.8	37
68	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.	4.3	37
69	Galactodendritic Porphyrinic Conjugates as New Biomimetic Catalysts for Oxidation Reactions. <i>Inorganic Chemistry</i> , 2015, 54, 4382-4393.	4.0	36
70	Comportamento térmico da caulinita hidratada. <i>Química Nova</i> , 2003, 26, 30-35.	0.3	35
71	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.	4.1	34
72	Biodiesel: Raw Materials, Production Technologies and Fuel Properties. <i>Revista Virtual De Química</i> , 2017, 9, 317-369.	0.4	34

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73	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.	5.2	33
74	Scanning tunneling microscopic investigation of K _x (H ₂ O) _y MoS ₂ . <i>Surface Science</i> , 1997, 380, L474-L478.	1.9	33
75	Kinetics evaluation of the ethyl esterification of long chain fatty acids using commercial montmorillonite K10 as catalyst. <i>Fuel</i> , 2017, 193, 265-274.	6.4	31
76	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.	4.3	30
77	Iron(iii) porphyrin supported on metahalloysite: an efficient and reusable catalyst for oxidation reactions. <i>Catalysis Science and Technology</i> , 2013, 3, 1094.	4.1	29
78	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.	0.6	28
79	PVA nanocomposites reinforced with Zn ₂ Al LDHs, intercalated with orange dyes. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 303-311.	2.5	28
80	Intercalation of indigo carmine anions into zinc hydroxide salt: A novel alternative blue pigment. <i>Dyes and Pigments</i> , 2016, 128, 158-164.	3.7	28
81	Potential Sustainable Slow-Release Fertilizers Obtained by Mechanochemical Activation of MgAl and MgFe Layered Double Hydroxides and K ₂ HPO ₄ . <i>Nanomaterials</i> , 2019, 9, 183.	4.1	28
82	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.	4.8	27
83	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.	2.4	27
84	Encapsulation of Fe(III) and Cu(II) complexes in NaY zeolite. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 138-145.	9.4	26
85	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.	0.6	26
86	In situ synthesis, morphology, and thermal properties of polystyrene-MgAl layered double hydroxide nanocomposites. <i>Polymer Engineering and Science</i> , 2012, 52, 1754-1760.	3.1	25
87	Cationic and anionic metalloporphyrins simultaneously immobilized onto raw halloysite nanoscrolls catalyze oxidation reactions. <i>Applied Catalysis A: General</i> , 2013, 460-461, 124-131.	4.3	25
88	Kinetics of non-catalytic and ZnL ₂ -catalyzed esterification of lauric acid with ethanol. <i>Fuel</i> , 2014, 117, 125-132.	6.4	25
89	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.	5.2	25
90	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate Kinetic modeling. <i>Fuel</i> , 2015, 153, 445-454.	6.4	25

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91	Covalent Grafting of Ethylene Glycol and Glycerol into Brucite. <i>Journal of Colloid and Interface Science</i> , 2002, 253, 180-184.	9.4	24
92	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, 167-173.	9.4	24
93	Bioactive nanocomposites of bacterial cellulose and natural hydrocolloids. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7034-7044.	5.8	24
94	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.	3.1	24
95	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.	2.9	24
96	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	24
97	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.	4.8	23
98	MAS NMR and EPR study of structural changes in talc and montmorillonite induced by grinding. <i>Clay Minerals</i> , 2016, 51, 69-80.	0.6	23
99	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.	9.4	22
100	Catalysts for heterogeneous oxidation reaction based on metalloporphyrins immobilized on kaolinite modified with triethanolamine. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 278-286.	9.4	22
101	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.	4.1	22
102	Immobilization of anionic iron(III) porphyrins onto in situ obtained zinc oxide. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 379-386.	9.4	21
103	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.	4.0	21
104	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, 135-140.	9.4	20
105	Fracture toughness, hardness, and elastic modulus of kyanite investigated by a depth-sensing indentation technique. <i>American Mineralogist</i> , 2008, 93, 844-852.	1.9	20
106	Theoretical study of the anion exchange properties and the thermal decomposition of Zn ₅ (OH) ₈ (NO ₃) ₂ ·2H ₂ O and Zn ₅ (OH) ₈ (NO ₃) ₂ ·NH ₃ . <i>Applied Clay Science</i> , 2015, 114, 103-111.	5.2	20
107	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.	0.6	19
108	Immobilization of laccase on hybrid layered double hydroxide. <i>Quimica Nova</i> , 2009, 32, 1495-1499.	0.3	19

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109	S�ntese e caracteriza�o de Nanocomp�sitos Esfoliados de Poliestireno: Hidr�xido Duplo Lamelar via polimeriza�o in situ. <i>Polimeros</i> , 2011, 21, 34-38.	0.7	19
110	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, 374-383.	9.4	19
111	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	19
112	Mechanochemical conversion of chrysotile/K ₂ HPO ₄ mixtures into potential sustainable and environmentally friendly slow-release fertilizers. <i>Journal of Environmental Management</i> , 2018, 206, 962-970.	7.8	19
113	Immobilization of <i>Pseudomonas cepacia</i> 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.	3.2	19
114	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.	2.4	18
115	Poly(vinyl alcohol) nanocomposite films containing chemically exfoliated molybdenum disulfide. <i>Materials Chemistry and Physics</i> , 2013, 137, 764-771.	4.0	18
116	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.	7.9	18
117	Fabrication of ZnO-Zn ₂ TiO ₄ nanocomposite from zinc hydroxide nitrate and its photocatalytic efficiency. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 46-52.	3.9	18
118	Natural and synthetic layered hydroxide salts (LHS): Recent advances and application perspectives emphasizing catalysis. <i>Progress in Solid State Chemistry</i> , 2021, 64, 100335.	7.2	18
119	Influence of two different alcohols in the esterification of fatty acids over layered zinc stearate/palmitate. <i>Bioresource Technology</i> , 2015, 193, 337-344.	9.6	17
120	Layered materials as nanocontainers for active corrosion protection: A brief review. <i>Applied Clay Science</i> , 2022, 225, 106537.	5.2	17
121	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.	9.4	16
122	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.	0.6	16
123	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	16
124	Investigation of the initial stages of the montmorillonite acid-activation process using DFT calculations. <i>Applied Clay Science</i> , 2018, 165, 170-178.	5.2	16
125	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.	9.4	16
126	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. <i>Applied Catalysis A: General</i> , 2020, 602, 117708.	4.3	16

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127	LDHs Instability in Esterification Reactions and Their Conversion to Catalytically Active Layered Carboxylates. <i>Catalysis Letters</i> , 2012, 142, 763-770.	2.6	15
128	Kinetics of ethylic esterification of lauric acid on acid activated montmorillonite (STx1-b) as catalyst. <i>Fuel</i> , 2016, 181, 600-609.	6.4	15
129	Synthesis, cation exchange and dehydration/rehydration of sodium gordaite: $\text{NaZn}_4(\text{OH})_6(\text{SO}_4)\text{Cl}\cdot 6\text{H}_2\text{O}$. <i>Applied Clay Science</i> , 2017, 146, 100-105.	5.2	15
130	Unusual catalytic activity after simultaneous immobilization of two metalloporphyrins on hydrozincite/nanocrystalline anatase. <i>Journal of Catalysis</i> , 2017, 352, 442-451.	6.2	15
131	Synthesis, characterization, thermal behavior and exchange reactions of new phases of layered double hydroxides with the chemical composition $[\text{M}^{2+}_2\text{Al}_3(\text{OH})_{18}(\text{SO}_4)_2](\text{A}(\text{H}_2\text{O})_6)_m \cdot n\text{H}_2\text{O}$ ($\text{M}^{2+} = \text{Co}, \text{Ni}, \text{Zn}, \text{Mg}$; $\text{A} = \text{Na}, \text{K}$). <i>Journal of Physical Chemistry C</i> , 2019, 123, 9838-9845.	3.1	15
132	DFT Study of Layered Double Hydroxides with Cation Exchange Capacity: $(\text{A}^{n+})_m(\text{H}_2\text{O})_m[\text{M}^{2+}_2\text{Al}_3(\text{OH})_{18}(\text{SO}_4)_2]_n \cdot x\text{H}_2\text{O}$ ($\text{M}^{2+} = \text{Mg}, \text{Zn}$ and $\text{A}^{n+} = \text{Na}, \text{K}$). <i>Journal of Physical Chemistry C</i> , 2019, 123, 9838-9845.	3.1	15
133	Preparação de nanocompósitos através do encapsulamento de polímeros condutores em 2H-MoS ₂ e 1T-TiS ₂ . <i>Quimica Nova</i> , 1997, 20, 356.	0.3	14
134	Intercalação e funcionalização da brucita com ácidos carboxílicos. <i>Quimica Nova</i> , 2005, 28, 24-29.	0.3	14
135	Montmorilonita modificada como catalisador heterogêneo em reações de esterificação (metálica de ácido láurico). <i>Quimica Nova</i> , 2012, 35, 1711-1718.	0.3	14
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