Edson C Silva Filho

List of Publications by Year
in descending order

223	4,633	109264	161767
papers	citations	35 h-index	54 g-index

224	224	224	4829
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The systems containing clays and clay minerals from modified drug release: A review. Colloids and Surfaces B: Biointerfaces, 2013, 103, 642-651.	2.5	170
2	Kinetics and thermodynamics of textile dye adsorption from aqueous solutions using babassu coconut mesocarp. Journal of Hazardous Materials, 2009, 166, 1272-1278.	6.5	169
3	Adsorption of an industrial anionic dye by modified-KSF-montmorillonite: Evaluation of the kinetic, thermodynamic and equilibrium data. Chemical Engineering Journal, 2012, 203, 259-268.	6.6	123
4	Preparation of ethylenediamine-anchored cellulose and determination of thermochemical data for the interaction between cations and basic centers at the solid/liquid interface. Carbohydrate Research, 2006, 341, 2842-2850.	1.1	116
5	Dye anionic sorption in aqueous solution onto a cellulose surface chemically modified with aminoethanethiol. Chemical Engineering Journal, 2013, 218, 89-98.	6.6	102
6	Gumsâ€™ based delivery systems: Review on cashew gum and its derivatives. Carbohydrate Polymers, 2016, 147, 188-200.	5.1	98
7	Development and characterization of bacterial cellulose produced by cashew tree residues as alternative carbon source. Industrial Crops and Products, 2017, 107, 13-19.	2.5	87
8	Maleic anhydride incorporated onto cellulose and thermodynamics of cation-exchange process at the solid/liquid interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 138-145.	2.3	82
9	Resistant starch/pectin free-standing films reinforced with nanocellulose intended for colonic methotrexate release. Carbohydrate Polymers, 2017, 157, 1013-1023.	5.1	76
10	Immobilization of ethylene sulfide in aminated cellulose for removal of the divalent cations. Carbohydrate Polymers, 2013, 92, 1203-1210.	5.1	75
11	Hydroxyapatite organofunctionalized with silylating agents to heavy cation removal. Journal of Colloid and Interface Science, 2006, 302, 485-491.	5.0	73
12	Removal of textile dyes from aqueous solution by babassu coconut epicarp (Orbignya speciosa). Chemical Engineering Journal, 2011, 173, 334-340.	6.6	71
13	Copper sorption from aqueous solutions and sugar cane spirits by chemically modified babassu coconut (Orbignya speciosa) mesocarp. Chemical Engineering Journal, 2010, 161, 99-105.	6.6	70
14	Evaluation of methylene blue removal by plasma activated palygorskites. Journal of Materials Research and Technology, 2019, 8, 5432-5442.	2.6	64
15	Monitoring diclofenac adsorption by organophilic alkylpyridinium bentonites. Chemosphere, 2020, 242, 125109.	4.2	63
16	Fabrication of Polymeric Microparticles by Electrospray: The Impact of Experimental Parameters. Journal of Functional Biomaterials, 2020, 11, 4.	1.8	60
17	Chitosan Hydrogel in combination with Nerolidol for healing wounds. Carbohydrate Polymers, 2016, 152, 409-418.	5.1	59
18	Acid-leached mixed vermiculites obtained by treatment with nitric acid. Applied Clay Science, 2015, 104, 286-294.	2.6	57

#	Article	IF	Citations
19	Modified chitosan-based bioactive material for antimicrobial application: Synthesis and characterization. International Journal of Biological Macromolecules, 2018, 117, 640-647.	3.6	54
20	Solvent-free production of phthalated cashew gum for green synthesis of antimicrobial silver nanoparticles. Carbohydrate Polymers, 2019, 213, 176-183.	5.1	52
21	Ethylenesulfide as a useful agent for incorporation into the biopolymer chitosan in a solvent-free reaction for use in cation removal. Carbohydrate Research, 2009, 344, 1716-1723.	1.1	51
22	Amino hydroxyapatite/chitosan hybrids reticulated with glutaraldehyde at different pH values and their use for diclofenac removal. Carbohydrate Polymers, 2020, 236, 116036.	5.1	48
23	Extraction of Pb(II), Cd(II), and Hg(II) from aqueous solution by nitrogen and thiol functionality grafted to silica gel measured by calorimetry. Thermochimica Acta, 2006, 450, 12-15.	1.2	47
24	Thermally activated palygorskites as agents to clarify soybean oil. Applied Clay Science, 2016, 119, 338-347.	2.6	47
25	Zinc phyllosilicates containing amino pendant groups. Journal of Solid State Chemistry, 2004, 177, 2316-2322.	1.4	45
26	Immobilization of ethylenesulfide on babassu coconut epicarp and mesocarp for divalent cation sorption. Journal of Hazardous Materials, 2010, 174, 714-719.	6.5	45
27	Potential of Cellulose Functionalized with Carboxylic Acid as Biosorbent for the Removal of Cationic Dyes in Aqueous Solution. Molecules, 2018, 23, 743.	1.7	44
28	Cation removal using cellulose chemically modified by a Schiff base procedure applying green principles. Journal of Colloid and Interface Science, 2009, 340, 8-15.	5.0	43
29	Organophilic bentonites obtained by microwave heating as adsorbents for anionic dyes. Journal of Environmental Chemical Engineering, 2018, 6, 7080-7090.	3.3	42
30	Characterization and catalytic performances of copper and cobalt-exchanged hydroxyapatite in glycerol conversion for 1-hydroxyacetone production. Applied Catalysis A: General, 2014, 471, 39-49.	2.2	41
31	Thiabendazole/bentonites hybrids as controlled release systems. Colloids and Surfaces B: Biointerfaces, 2019, 176, 249-255.	2.5	40
32	Synthesized cellulose/succinic anhydride as an ion exchanger. Calorimetry of divalent cations in aqueous suspension. Thermochimica Acta, 2011, 524, 29-34.	1.2	38
33	Chemical composition and possible use as adjuvant of the antibiotic therapy of the essential oil of Rosmarinus officinalis L.. Industrial Crops and Products, 2014, 59, 290-294.	2.5	38
34	Montmorillonite with essential oils as antimicrobial agents, packaging, repellents, and insecticides: an overview. Colloids and Surfaces B: Biointerfaces, 2022, 209, 112186.	2.5	37
35	Development of new phosphated cellulose for application as an efficient biomaterial for the incorporation/release of amitriptyline. International Journal of Biological Macromolecules, 2016, 86, 362-375.	3.6	36
36	Bioprinting a Synthetic Smectic Clay for Orthopedic Applications. Advanced Healthcare Materials, 2019, 8, e1900158.	3.9	36

#	Article	IF	Citations
37	X-ray diffraction and thermogravimetry data of cellulose, chlorodeoxycellulose and aminodeoxycellulose. Journal of Thermal Analysis and Calorimetry, 2010, 100, 315-321.	2.0	35
38	Effects of acid treatment on the clay palygorskite: XRD, surface area, morphological and chemical composition. Materials Research, 2014, 17, 3-08.	0.6	35
39	Biological properties of chitosan derivatives associated with the ceftazidime drug. Carbohydrate Polymers, 2019, 222, 115002.	5.1	35
40	Antimicrobial efficacy of building material based on ZnO/palygorskite against Gram-negative and Gram-positive bacteria. Applied Clay Science, 2020, 188, 105499.	2.6	35
41	Solvent-free synthesis of acetylated cashew gum for oral delivery system of insulin. Carbohydrate Polymers, 2019, 207, 601-608.	5.1	34
42	Eco-friendly synthesis and photocatalytic application of flowers-like ZnO structures using Arabic and Karaya Gums. International Journal of Biological Macromolecules, 2020, 165, 2813-2822.	3.6	34
43	Direct Modification of Microcrystalline Cellulose with Ethylenediamine for Use as Adsorbent for Removal Amitriptyline Drug from Environment. Molecules, 2017, 22, 2039.	1.7	33
44	What happens when chitosan meets bentonite under microwave-assisted conditions? Clay-based hybrid nanocomposites for dye adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125584.	2.3	33
45	Modified coupling agents based on thiourea, immobilized onto silica. Thermodynamics of copper adsorption. Surface Science, 2009, 603, 2200-2206.	0.8	32
46	Potential of amino-functionalized cellulose as an alternative sorbent intended to remove anionic dyes from aqueous solutions. International Journal of Biological Macromolecules, 2018, 116, 1282-1295.	3.6	32
47	Epicarp and mesocarp of babassu (Orbignya speciosa): characterization and application in copper phtalocyanine dye removal. Journal of the Brazilian Chemical Society, 2011, 22, 21-29.	0.6	31
48	Phosphated Cellulose as an Efficient Biomaterial for Aqueous Drug Ranitidine Removal. Materials, 2014, 7, 7907-7924.	1.3	30
49	Sorption of the anionic reactive red RB dye in cellulose: Assessment of kinetic, thermodynamic, and equilibrium data. Open Chemistry, 2015, 13, .	1.0	30
50	Supporting the photocatalysts on ZrO2: An effective way to enhance the photocatalytic activity of SrSnO3. Applied Surface Science, 2020, 528, 146991.	3.1	30
51	Microwave-initiated rapid synthesis of phthalated cashew gum for drug delivery systems. Carbohydrate Polymers, 2021, 254, 117226.	5.1	30
52	Modification of kaolinite from ParÃ¡/Brazil region applied in the anionic dye photocatalytic discoloration. Applied Clay Science, 2019, 168, 295-303.	2.6	29
53	Saponite-anthocyanin derivatives: The role of organoclays in pigment photostability. Applied Clay Science, 2020, 191, 105604.	2.6	29
54	Surface cellulose modification with 2-aminomethylpyridine for copper, cobalt, nickel and zinc removal from aqueous solution. Materials Research, 2013, 16, 79-84.	0.6	28

#	Article	IF	Citations
55	A novel green approach based on ZnO nanoparticles and polysaccharides for photocatalytic performance. Dalton Transactions, 2020, 49, 16394-16403.	1.6	28
56	Microwave bentonite silylation for dye removal: Influence of the solvent. Applied Clay Science, 2019, 168, 478-487.	2.6	27
57	Antibacterial and cytotoxic properties from esterified Sterculia gum. International Journal of Biological Macromolecules, 2020, 164, 606-615.	3.6	27
58	Zinc (II) modified hydroxyapatites for tetracycline removal: Zn (II) doping or ZnO deposition and their influence in the adsorption. Polyhedron, 2021, 194, 114879.	1.0	27
59	Organophilic nickel phyllosilicate for reactive blue dye removal. Chemical Engineering Journal, 2014, 236, 332-340.	6.6	26
60	Modifying cellulose with metaphosphoric acid and its efficiency in removing brilliant green dye. International Journal of Biological Macromolecules, 2018, 114, 470-478.	3.6	26
61	Synthesis of silver-cerium titanate nanotubes and their surface properties and antibacterial applications. Materials Science and Engineering C, 2020, 115, 111051.	3.8	26
62	Exploring the favorable ion-exchange ability of phthalylated cellulose biopolymer using thermodynamic data. Carbohydrate Research, 2010, 345, 1914-1921.	1.1	24
63	Brazilian Palygorskite as Adsorbent for Metal Ions from Aqueous Solutionâ€”Kinetic and Equilibrium Studies. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	24
64	Development of Composite Scaffolds Based on Cerium Doped-Hydroxyapatite and Natural Gumsâ€”Biological and Mechanical Properties. Materials, 2019, 12, 2389.	1.3	24
65	Spectroscopic, thermal characterizations and bacteria inhibition of chemically modified chitosan with phthalic anhydride. Materials Chemistry and Physics, 2020, 240, 122053.	2.0	24
66	Sterculia striata gum as a potential oral delivery system for protein drugs. International Journal of Biological Macromolecules, 2020, 164, 1683-1692.	3.6	24
67	Zn-doped mesoporous hydroxyapatites and their antimicrobial properties. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111471.	2.5	23
68	Superabsorbent Hydrogels Based to Polyacrylamide/Cashew Tree Gum for the Controlled Release of Water and Plant Nutrients. Molecules, 2021, 26, 2680.	1.7	23
69	A Brief Photocatalytic Study of ZnO Containing Cerium towards Ibuprofen Degradation. Materials, 2021, 14, 5891.	1.3	23
70	Thermodynamic Data of 6-(4â€²-Aminobutylamino)-6-deoxycellulose Sorbent for Cation Removal from Aqueous Solutions. Separation Science and Technology, 2011, 46, 2566-2574.	1.3	22
71	Facile synthesis of ZnO-clay minerals composites using an ultrasonic approach for photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 429, 113934.	2.0	22
72	Alkaline earth stannates applied in photocatalysis: prospection and review of literature. Ceramica, 2018, 64, 559-569.	0.3	21

#	Article	IF	Citations
73	Amino-functionalized titanate nanotubes for highly efficient removal of anionic dye from aqueous solution. Applied Surface Science, 2020, 512, 145659.	3.1	21
74	New properties of chia seed mucilage (Salvia hispanica L.) and potential application in cosmetic and pharmaceutical products. Industrial Crops and Products, 2021, 171, 113981.	2.5	21
75	The versatility of montmorillonite in water remediation using adsorption: Current studies and challenges in drug removal. Journal of Environmental Chemical Engineering, 2022, 10, 107341.	3.3	21
76	Sequestration of Cu(II), Ni(II), and Co(II) by ethyleneimine immobilized on silica. Thermochimica Acta, 2007, 453, 72-74.	1.2	20
77	Natural cellulose for ranitidine drug removal from aqueous solutions. Journal of Environmental Chemical Engineering, 2014, 2, 605-611.	3.3	19
78	Development and characterization of multilayer films of polyaniline, titanium dioxide and CTAB for potential antimicrobial applications. Materials Science and Engineering C, 2014, 35, 449-454.	3.8	19
79	Catalytic performance of kenyaite and magadiite lamellar silicates for the production of Î±,Î²-unsaturated esters. Chemical Engineering Journal, 2015, 263, 257-267.	6.6	19
80	Semiconductor supported by palygorskite and layered double hydroxides clays to dye discoloration in solution by a photocatalytic process. Journal of Environmental Chemical Engineering, 2019, 7, 103431.	3.3	19
81	New composite TiO2/naturals gums for high efficiency in photodiscoloration process. Ceramics International, 2020, 46, 15534-15543.	2.3	19
82	Modulating the structure of organofunctionalized hydroxyapatite/tripolyphosphate/chitosan spheres for dye removal. Journal of Environmental Chemical Engineering, 2020, 8, 103980.	3.3	19
83	Chemical modification of chitosan in the absence of solvent for diclofenac sodium removal: pH and kinetics studies. Materials Research, 2014, 17, 141-145.	0.6	18
84	Biomineralization inspired engineering of nanobiomaterials promoting bone repair. Materials Science and Engineering C, 2021, 120, 111776.	3.8	18
85	TiO2 Immobilized on Fibrous Clay as Strategies to Photocatalytic Activity. Materials Research, 2020, 23, .	0.6	18
86	Understanding the effect of UV light in systems containing clay minerals and tetracycline. Applied Clay Science, 2019, 183, 105311.	2.6	17
87	Chitosan associated with chlorhexidine in gel form: Synthesis, characterization and healing wounds applications. Journal of Drug Delivery Science and Technology, 2019, 49, 375-382.	1.4	17
88	Biocompatible Gels of Chitosanâ€“Buriti Oil for Potential Wound Healing Applications. Materials, 2020, 13, 1977.	1.3	17
89	Palygorskite organophilic for dermopharmaceutical application. Journal of Thermal Analysis and Calorimetry, 2014, 115, 2287-2294.	2.0	16
90	Integrating chloroethyl phosphate with biopolymer cellulose and assessing their potential for absorbing brilliant green dye. Journal of Environmental Chemical Engineering, 2016, 4, 3348-3356.	3.3	16

#	Article	IF	Citations
91	Obtaining the palygorskite:chitosan composite for modified release of 5-aminosalicylic acid. Materials Science and Engineering C, 2017, 73, 245-251.	3.8	16
92	Chemically modified babassu coconut (Orbignya sp.) biopolymer: characterization and development of a thin film for its application in electrochemical sensors. Journal of Polymer Research, 2018, 25, 1.	1.2	16
93	Understanding kinetics and thermodynamics of the interactions between amitriptyline or eosin yellow and aminosilane-modified cellulose. Carbohydrate Polymers, 2019, 225, 115246.	5.1	16
94	Titanate-based one-dimensional nano-heterostructure: Study of hydrothermal reaction parameters for improved photocatalytic application. Solid State Sciences, 2019, 98, 106043.	1.5	16
95	Understanding the interactions between ranitidine and magadiite: Influence of the interlayer cation. Chemosphere, 2019, 222, 980-990.	4.2	16
96	Development of composites scaffolds with calcium and cerium-hydroxyapatite and gellan gum. Ceramics International, 2020, 46, 3811-3817.	2.3	16
97	Novel modified bentonites applied to the removal of an anionic azo-dye from aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124152.	2.3	16
98	Modified chicha gum by acetylation for antimicrobial and antiparasitic applications: Characterization and biological properties. International Journal of Biological Macromolecules, 2020, 160, 1177-1188.	3.6	16
99	A comparative study of alanine adsorption and condensation to peptides in two clay minerals. Applied Clay Science, 2020, 192, 105617.	2.6	16
100	Ethylenesulfide as a useful agent for incorporation on the biopolymer chitosan in a solvent-free reaction for use in lead and cadmium removal. Journal of Thermal Analysis and Calorimetry, 2011, 106, 369-373.	2.0	15
101	Saponite-anthocyanin pigments: Slipping between the sheets. Microporous and Mesoporous Materials, 2020, 300, 110148.	2.2	15
102	Performance, Body Water Balance, Ingestive Behavior and Blood Metabolites in Goats Fed with Cactus Pear (Opuntia ficus-indica L. Miller) Silage Subjected to An Intermittent Water Supply. Sustainability, 2020, 12, 2881.	1.6	15
103	When RNA meets montmorillonite: Influence of the pH and divalent cations. Applied Clay Science, 2021, 214, 106234.	2.6	15
104	Methionine microencapsulated with a carnauba (Copernicia prunifera) wax matrix for protection from degradation in the rumen. Livestock Science, 2019, 228, 53-60.	0.6	14
105	Hybrid chitosan/amniotic membrane-based hydrogels for articular cartilage tissue engineering application. International Journal of Polymeric Materials and Polymeric Biomaterials, 2020, 69, 961-970.	1.8	14
106	Study of interactions between organic contaminants and a new phosphated biopolymer derived from cellulose. International Journal of Biological Macromolecules, 2020, 146, 668-677.	3.6	14
107	Electrospraying Oxygen-Generating Microparticles for Tissue Engineering Applications . International Journal of Nanomedicine, 2020, Volume 15, 1173-1186.	3.3	14
108	Phthalic anhydride esterified chicha gum: characterization and antibacterial activity. Carbohydrate Polymers, 2021, 251, 117077.	5.1	14

#	Article	IF	Citations
109	Application of Water Hyacinth Biomass (Eichhornia crassipes) as an Adsorbent for Methylene Blue Dye from Aqueous Medium: Kinetic and Isothermal Study. Polymers, 2022, 14, 2732.	2.0	14
110	Anchored fibrous chrysotile silica and its ability in using nitrogen basic centers on cation complexing from aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 227, 85-91.	2.3	13
111	Preparation and characterization of composite polyaniline/poly(vinyl alcohol)/palygorskite. Journal of Thermal Analysis and Calorimetry, 2015, 119, 37-46.	2.0	13
112	Natural Palygorskite as an Industrial Dye Remover in Single and Binary Systems. Materials Research, 2016, 19, 1232-1240.	0.6	13
113	Preparation and physicochemical characterization of binary composites palygorskiteâ€“chitosan for drug delivery. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1327-1334.	2.0	13
114	Synthesis, characterization and electrochemical properties of composites synthesized from silver-tannic acid hybrid nanoparticles and different clays. Applied Clay Science, 2019, 181, 105219.	2.6	13
115	Hybrid Systems Based on Talc and Chitosan for Controlled Drug Release. Materials, 2019, 12, 3634.	1.3	13
116	Cerium-doped calcium phosphates precipitated on bacterial cellulose platform by mineralization. Ceramics International, 2020, 46, 26985-26990.	2.3	13
117	Au@Ag bimetallic nanoparticles deposited on palygorskite in the presence of TiO2 for enhanced photodegradation activity through synergistic effect. Environmental Science and Pollution Research, 2021, 28, 23995-24007.	2.7	13
118	Effect of Cerium-Containing Hydroxyapatite in Bone Repair in Female Rats with Osteoporosis Induced by Ovariectomy. Minerals (Basel, Switzerland), 2021, 11, 377.	0.8	13
119	Nanocomposite Hydrogel Produced from PEGDA and Laponite for Bone Regeneration. Journal of Functional Biomaterials, 2022, 13, 53.	1.8	13
120	Direct grafting of ethylene sulfide onto silicic acid magadiite. Microporous and Mesoporous Materials, 2014, 196, 292-299.	2.2	12
121	Evaluation of physico-chemical properties and antimicrobial synergic effect of ceftazidime-modified chitosan. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1629-1636.	2.0	12
122	Kaolinite/cashew gum bionanocomposite for doxazosin incorporation and its release. International Journal of Biological Macromolecules, 2020, 161, 927-935.	3.6	12
123	Calorimetry studies for interaction in solid/liquid interface between the modified cellulose and divalent cation. Journal of Thermal Analysis and Calorimetry, 2013, 114, 57-66.	2.0	11
124	The effect of natural and organophilic palygorskite on skin wound healing in rats. Brazilian Journal of Pharmaceutical Sciences, 2013, 49, 729-736.	1.2	11
125	High performance maleated lignocellulose epicarp fibers for copper ion removal. Brazilian Journal of Chemical Engineering, 2014, 31, 183-193.	0.7	11
126	Layer-by-layer hybrid films of phosphate cellulose and electroactive polymer as chromium (VI) sensors. Journal of Solid State Electrochemistry, 2015, 19, 2129-2139.	1.2	11

#	Article	IF	Citations
127	Development of a low-cost electrochemical sensor based on babassu mesocarp (Orbignya phalerata) immobilized on a flexible gold electrode for applications in sensors for 5-fluorouracil chemotherapeutics. Analytical and Bioanalytical Chemistry, 2019, 411, 659-667.	1.9	11
128	Through alizarin-hectorite pigments: Influence of organofunctionalization on fading. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 587, 124323.	2.3	11
129	Oxide-Clay Mineral as Photoactive Material for Dye Discoloration. Minerals (Basel, Switzerland), 2020, 10, 132.	0.8	11
130	Chitosan grafted with maleic anhydride and ethylenediamine: Preparation, characterization, computational study, antibacterial and cytotoxic properties. Materials Chemistry and Physics, 2022, 287, 126301.	2.0	11
131	New Chemical Organic Anhydride Immobilization Process Used on Banana Pseudostems: A Biopolymer for Cation Removal. Industrial & Engineering Chemistry Research, 2013, 52, 11007-11015.	1.8	10
132	Electrospun Nanofibrous Poly (Lactic Acid)/Titanium Dioxide Nanocomposite Membranes for Cutaneous Scar Minimization. Frontiers in Bioengineering and Biotechnology, 2019, 7, 421.	2.0	10
133	Eco-friendly synthesis of phthalate angico gum towards nanoparticles engineering using Quality by Design (QbD) approach. International Journal of Biological Macromolecules, 2021, 190, 801-809.	3.6	10
134	Effect of Edible Onion (Allium cepa L.) Film on Quality, Sensory Properties and Shelf Life of Beef Burger Patties. Molecules, 2021, 26, 7202.	1.7	10
135	Are Structurally Modified Galactomannan Derivatives Biologically Active?. Polysaccharides, 2021, 2, 1-15.	2.1	9
136	Light-Activated Hydroxyapatite Photocatalysts: New Environmentally-Friendly Materials to Mitigate Pollutants. Minerals (Basel, Switzerland), 2022, 12, 525.	0.8	9
137	Biopolymers and pilocarpine interaction study for use in drug delivery systems (DDS). Journal of Thermal Analysis and Calorimetry, 2017, 127, 1777-1785.	2.0	8
138	Nanocellulose/palygorskite biocomposite membranes for controlled release of metronidazole. International Journal of Biological Macromolecules, 2021, 188, 689-695.	3.6	8
139	Gallium-Containing Hydroxyapatite as a Promising Material for Photocatalytic Performance. Minerals (Basel, Switzerland), 2021, 11, 1347.	0.8	8
140	Clays as Vehicles for Drug Photostability. Pharmaceutics, 2022, 14, 796.	2.0	8
141	Thermochemistry of interaction between cellulose modified with 2-aminomethylpyridine and divalent cations. Journal of Thermal Analysis and Calorimetry, 2013, 114, 423-429.	2.0	7
142	Use of Cellulosic Materials as Dye Adsorbents â€" A Prospective Study. , 0, , .		7
143	Development and characterization of composites based on polyaniline and modified microcrystalline cellulose with anhydride maleic as platforms for electrochemical trials. Colloid and Polymer Science, 2015, 293, 1049-1058.	1.0	7
144	Use of phyllosilicate clay mineral to increase solubility olanzapine. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1743-1750.	2.0	7

#	Article	IF	Citations
145	Effective Removal of the Remazol Yellow GR Dye Using Cellulose Functionalized by Basic Groups. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	7
146	Sustainable natural gums for industrial application: Physiochemical and texturometric evaluation. Journal of Drug Delivery Science and Technology, 2019, 54, 101306.	1.4	7
147	Desenvolvimento de biomaterial composto por hidroxiapatita e clorexidina para aplicaÃ§Ã£o na cavidade oral. Ceramica, 2019, 65, 130-138.	0.3	7
148	Development of an Experimental Dentifrice with Hydroxyapatite Nanoparticles and High Fluoride Concentration to Manage Root Dentin Demineralization . International Journal of Nanomedicine, 2020, Volume 15, 7469-7479.	3.3	7
149	Development of nanostructured systems using natural polymers to optimize the treatment of inflammatory bowel diseases: A prospective study. Journal of Drug Delivery Science and Technology, 2021, 64, 102590.	1.4	7
150	Hidroxiapatita: suporte para liberaÃ§Ã£o de fÃ¡rmacos e propriedades antimicrobianas. Ceramica, 2016, 62, 256-265.	0.3	7
151	Photodegradation study of TiO2 and ZnO in suspension using miniaturized tests. Revista Materia, 2019, 24, .	0.1	7
152	Polymeric Microparticles of Calcium Pectinate Containing Urea for Slow Release in Ruminant Diet. Polymers, 2021, 13, 3776.	2.0	7
153	Influence of the Metal Incorporation into Hydroxyapatites on the Deactivation Behavior of the Solids in the Esterification of Glycerol. Catalysts, 2022, 12, 10.	1.6	7
154	Potential Wound Healing Effect of Gel Based on Chicha Gum, Chitosan, and Mauritia flexuosa Oil. Biomedicines, 2022, 10, 899.	1.4	7
155	Chemical Functionalization of Cellulosic Materials â€" Main Reactions and Applications in the Contaminants Removal of Aqueous Medium. , 0, , .		6
156	Sawdust Derivative for Environmental Application: Chemistry, Functionalization and Removal of textile dye from aqueous solution. Anais Da Academia Brasileira De Ciencias, 2016, 88, 1212-1220.	0.3	6
157	The Potential Role of Polyelectrolyte Complex Nanoparticles Based on Cashew Gum, Tripolyphosphate and Chitosan for the Loading of Insulin. International Journal of Diabetology, 2021, 2, 107-116.	0.9	6
158	Elaboration and Characterization of Bioactive Films Obtained from the Incorporation of Cashew Nut Shell Liquid into a Matrix of Sodium Alginate. Antioxidants, 2021, 10, 1378.	2.2	6
159	Deposition of sodium titanate nanotubes: superhydrophilic surface and antibacterial approach. Journal of Materials Research and Technology, 2022, 19, 2104-2114.	2.6	6
160	TiO2/Karaya Composite for Photoinactivation of Bacteria. Materials, 2022, 15, 4559.	1.3	6
161	Synthesis and thermal characterization of copper and calcium mixed phosphates. Journal of Thermal Analysis and Calorimetry, 2007, 87, 775-778.	2.0	5
162	Hydroxyapatites Obtained from Different Routes and their Antimicrobial Properties. Materials Science Forum, 0, 869, 890-895.	0.3	5

#	Article	IF	Citations
163	Incorporation of Zirconium Oxide on the Surface of Palygorskite Clay for Photodegradation of Industrial Dye. Materials Science Forum, 2016, 869, 768-772.	0.3	5
164	Antibacterial Activity of a Chitosan Derivative Obtained in the Absence of a Solvent. Materials Science Forum, 0, 869, 869-873.	0.3	5
165	Photocatalysis of Coomassie Brilliant Blue Using Clay Mineral. Materials Science Forum, 2016, 869, 765-767.	0.3	5
166	Degradation of Poly(Ethylene Oxide) Films Using Crystal Violet. Materials Research, 2017, 20, 869-872.	0.6	5
167	Understanding Urea Encapsulation in Different Clay Minerals as a Possible System for Ruminant Nutrition. Molecules, 2019, 24, 3525.	1.7	5
168	Uso de fotÃ³lise direta e H2O2/UV em soluÃ§Ã£o aquosa contendo o corante violeta cristal. Holos Environment, 2017, 17, 138.	0.1	5
169	Nanostructured polymeric system based of cashew gum for oral admnistration of insulin. Revista Materia, 2019, 24, .	0.1	5
170	Chitosan-based hydrogel for treatment of temporomandibular joint arthritis. Polimeros, 2021, 31, .	0.2	5
171	Thermal characterization of modified phyllosilicates with aromatic heterocyclic amines. Journal of Thermal Analysis and Calorimetry, 2007, 87, 767-770.	2.0	4
172	Synthesis and characterization of a silylated Brazilian clay mineral surface. Chemical Papers, 2014, 68, .	1.0	4
173	Attapulgite Performance in the Degradation of the Yellow Bright Dye. Materials Science Forum, 2016, 869, 761-764.	0.3	4
174	Systems developed for application as self-cleaning surfaces and/or antimicrobial properties: a short review on materials and production methods. Ceramica, 2019, 65, 477-484.	0.3	4
175	Copolymerized Natural Fibre from the Mesocarp of Orbignya phalerata (Babassu Fruit) as an Irrigating-Fertilizer for Growing Cactus Pears. Polymers, 2020, 12, 1699.	2.0	4
176	Printing composite nanofilaments for use in a simple and low-cost 3D pen. Journal of Materials Research, 2020, 35, 1154-1162.	1.2	4
177	Clays as Biomaterials in Controlled Drug Release: A Scientific and Technological Short Review. Biomedical Journal of Scientific & Technical Research, 2019, 15, .	0.0	4
178	Subprodutos do babaÃ§u (Orbignya sp)como novos materiais adsortivos: uma revisÃ£o. Revista Materia, 2019, 24, .	0.1	4
179	Clay Mineral Minerals as a Strategy for Biomolecule Incorporation: Amino Acids Approach. Materials, 2022, 15, 64.	1.3	4
180	Cellulose Phosphate Applied in the Removal of the Drug Acetaminophen from Aqueous Media. Materials Science Forum, 2016, 869, 745-749.	0.3	3

#	Article	IF	Citations
181	Evaluation of the Potential of Mesocarp Babassu Powder as a Technological Excipient to Pharmaceutical Industry - Part I. Materials Science Forum, 0, 869, 874-879.	0.3	2
182	Strategies to improve glibenclamide dissolution: A review using database tomography. Journal of Drug Delivery Science and Technology, 2019, 54, 101242.	1.4	2
183	Immobilization of biomolecules on natural clay minerals for medical applications. International Journal of Advances in Medical Biotechnology - IJAMB, 2018, 1, 31.	0.1	2
184	Effect of Oxycations in Clay Mineral on Adsorptionâ€"Vanadyl Exchange Bentonites and Their Ability for Amiloride Removal. Minerals (Basel, Switzerland), 2021, 11, 1327.	0.8	2
185	Biopolymer from Water Kefir as a Potential Clean-Label Ingredient for Health Applications: Evaluation of New Properties. Molecules, 2022, 27, 3895.	1.7	2
186	Thermal Activation of Palygorskite at Different Temperatures. Materials Science Forum, 2014, 775-776, 47-51.	0.3	1
187	Analysis of the Properties of Asphaltic Concrete Using Recycled Aggregates of CDW. Materials Science Forum, 2014, 775-776, 613-618.	0.3	1
188	Development and Evaluation of Capsule of Sodium Diclofenac and Paracetamol Using Mesocarp Babassu Powder as Excipient - Part II. Materials Science Forum, 2016, 869, 849-853.	0.3	1
189	Functionalization of Cellulose with Cysteamine: Synthesis, Characterization, and Adsorption. Materials Science Forum, 2016, 869, 740-744.	0.3	1
190	A Study of the Chemical and Physical Characteristics of the Soils from the South of PiauÃ-for Soil-Cement Brick Production. Materials Science Forum, 2016, 869, 112-115.	0.3	1
191	Degradation of Colored Polystyrene Films. Materials Science Forum, 2018, 930, 254-257.	0.3	1
192	The Use of Palygorskite as a Catalytic Support for TiO₂ on the Degradation of Herbicide: A Review. Materials Science Forum, 0, 930, 568-571.	0.3	1
193	Heterogeneous photocatalysis using TiO2 in suspension applied to antioxidant activity assays. Materials Today: Proceedings, 2019, 14, 648-655.	0.9	1
194	Understanding the role of dye in colorful thermoplastic film under visible light. Journal of Polymer Research, 2020, 27, 1.	1.2	1
195	SÃntese de cerÃ¢micas bifÃ¡sicas de fosfato de cÃ¡lcio pelo mÃ©todo Pechini. Tecnologia Em Metalurgia, Materiais E Mineracao, 2021, 18, e2358.	0.1	1
196	Biopolymeric Materials Used as Nonviral Vectors: A Review. Polysaccharides, 2021, 2, 100-109.	2.1	1
197	Insights into the Antimicrobial Activity of Hydrated Cobaltmolybdate Doped with Copper. Molecules, 2021, 26, 1267.	1.7	1
198	Hybrid Pigments from Bixin Dye and Inorganic Matrices. Environmental Sciences Proceedings, 2021, 6, 21.	0.3	1

#	Article	IF	Citations
199	UtilizaÃ§Ã£o de argilas fibrosas e tubulares para a liberaÃ§Ã£o modificadas de fÃ¡rmacos: uma revisÃ£o. Revista Materia, 2016, 21, 204-212.	0.1	1
200	Recent advances in methods of synthesis and applications of bacterial cellulose/calcium phosphates composites in bone tissue engineering. International Journal of Advances in Medical Biotechnology - IJAMB, 2018, 1, 11.	0.1	1
201	TECNOLOGICAL EXPLORATION: THE APPLICATION OF GUM CASHEW (Anacardium occidentale) IN NANOTECHNOLOGY. Revista GEINTEC, 2013, 3, 055-069.	0.2	1
202	POLYMERS MUCOADHESIVES FOR VAGINAL USE: A TECHNOLOGICAL FORECASTING. Revista GEINTEC, 2014, 4, 622-631.	0.2	1
203	Evaluation of antileishmanial potential of Gentiana kurroo Royle by in vitro and in silico methods. Journal of Applied Pharmaceutical Science, 0, , .	0.7	1
204	Adsorption of the Blue Dye Reactive Remazol RN in Cellulosic Materials. Materials Science Forum, 2014, 775-776, 749-754.	0.3	0
205	Determining the Content of Toxic Substances in Panels from Pruning <i>Acacia mangium</i> Willd. Materials Science Forum, 0, 869, 102-105.	0.3	0
206	Electrochemical Behavior of Electroactive PVS/PANI Films Containing Chemically Modified Cellulose. Materials Science Forum, 0, 869, 809-814.	0.3	0
207	Nanostructured and Electroactive Hybrid Films Containing Microcrystalline Cellulose Modified with the Phosphate Group: Synthesis and Characterization. Materials Science Forum, 2016, 869, 840-845.	0.3	0
208	Organofunctionalization of Natural Palygorskite with Ethylene Sulfide in the Absence of a Solvent. Materials Science Forum, 2016, 869, 176-180.	0.3	0
209	Sorption of Bright Yellow Dyes by Filter Papers. Materials Science Forum, 0, 869, 735-739.	0.3	0
210	Influence of Time and Temperature on Directional Growth of MoO₃. Materials Science Forum, 0, 869, 1001-1006.	0.3	0
211	Assessment of the Photocatalytic Efficiency of TiO₂ in the Presence of Sulphate. Materials Science Forum, 0, 930, 589-593.	0.3	0
212	Photo-Oxidation of Tetracycline Adsorbed in Clayand in Aqueous Suspension. Materials Science Forum, 2018, 930, 552-555.	0.3	0
213	Absorption Evaluation of Water in Panels from Elephant Grass with Eucalyptus sp. Leaves. Materials Science Forum, 2018, 930, 207-211.	0.3	0
214	Synthetic Smectic Clays: Bioprinting a Synthetic Smectic Clay for Orthopedic Applications (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	3.9	0
215	Nanostructured Carbon-Based Materials for Adsorption of Organic Contaminants from Water. Engineering Materials, 2019, , 35-64.	0.3	0
216	Hybrid Pigments from Bixin Dye and Inorganic Matrices. Environmental Sciences Proceedings, 2021, 6, .	0.3	0

#	Article	IF	Citations
217	Facile synthesis of H-CoMoO4 nanosheets for antibacterial approaches. Chemical Papers, 2022, 76, 1085-1095.	1.0	0
218	APLICAÃ‡ÃƒO DA CELULOSE FOSFATADA EM ATIVIDADES BIOLÃ“GICAS: UMA PROSPECÃ‡ÃƒO TECNOLÃ“GICA. Revista GEINTEC, 2013, 3, 066-072.	0.2	0
219	BIONANOCOMPÃ“SITOS POLIMÃ‰RICOS Ã€ BASE DE MONTMORILLONITA â€“ MATERIAIS DE INTERESSE CONTÃNUO. Quimica Nova, 2020, , .	0.3	0
220	PÃ³s de rochas regionais como fonte de fÃ³sforo e potÃ¡ssio para plantas. Research, Society and Development, 2020, 9, e497974257.	0.0	0
221	ZircÃ´nia pigmentada obtida pelo mÃ©todo Pechini para aplicaÃ§Ãµes odontolÃ³gicas. Revista Materia, 2020, 25, .	0.1	0
222	Study of the effect of solvent on acetylate cashew gum-based nanoparticles properties and antimicrobial activity. Revista Materia, 2020, 25, .	0.1	0
223	Control of microbial growth and lipid oxidation on beef steak using a cashew nut shell liquid (CNSL)-based edible coating treatment. Food Science and Technology, 0, 42, .	0.8	0