Alessandro F Martins

List of Publications by Year
in descending order

89	3,769	126858	133188
papers	citations	33 h-index	59 g-index

91	91	91	4787
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superabsorbent hydrogels based on polysaccharides for application in agriculture as soil conditioner and nutrient carrier: A review. European Polymer Journal, 2015, 72, 365-385.	2.6	514
2	Antimicrobial Activity of Chitosan Derivatives Containing N-Quaternized Moieties in Its Backbone: A Review. International Journal of Molecular Sciences, 2014, 15, 20800-20832.	1.8	219
3	Recent Advances in Food-Packing, Pharmaceutical and Biomedical Applications of Zein and Zein-Based Materials. International Journal of Molecular Sciences, 2014, 15, 22438-22470.	1.8	215
4	Recent advances on composite hydrogels designed for the remediation of dye-contaminated water and wastewater: A review. Journal of Cleaner Production, 2021, 284, 124703.	4.6	141
5	Chitosan/TPP microparticles obtained by microemulsion method applied in controlled release of heparin. International Journal of Biological Macromolecules, 2012, 51, 1127-1133.	3.6	137
6	New magnetic chitosan/alginate/Fe3O4@SiO2 hydrogel composites applied for removal of Pb(II) ions from aqueous systems. Chemical Engineering Journal, 2018, 337, 595-608.	6.6	118
7	Characterization of N-trimethyl chitosan/alginate complexes and curcumin release. International Journal of Biological Macromolecules, 2013, 57, 174-184.	3.6	109
8	Pectin-chitosan membrane scaffold imparts controlled stem cell adhesion and proliferation. Carbohydrate Polymers, 2018, 197, 47-56.	5.1	99
9	Characterization of polyelectrolytes complexes based on N,N,N-trimethyl chitosan/heparin prepared at different pH conditions. Carbohydrate Polymers, 2011, 86, 1266-1272.	5.1	97
10	Antiadhesive and Antibacterial Multilayer Films via Layer-by-Layer Assembly of TMC/Heparin Complexes. Biomacromolecules, 2012, 13, 3711-3722.	2.6	86
11	Synthesis and characterization of pectin derivative with antitumor property against Caco-2 colon cancer cells. Carbohydrate Polymers, 2015, 115, 139-145.	5.1	75
12	Scaffolds based on chitosan/pectin thermosensitive hydrogels containing gold nanoparticles. International Journal of Biological Macromolecules, 2017, 102, 1186-1194.	3.6	73
13	Novel poly(Îµ-caprolactone)/amino-functionalized tannin electrospun membranes as scaffolds for tissue engineering. Journal of Colloid and Interface Science, 2018, 525, 21-30.	5.0	70
14	Curcumin-loaded dual pH- and thermo-responsive magnetic microcarriers based on pectin maleate for drug delivery. Carbohydrate Polymers, 2017, 171, 259-266.	5.1	67
15	Preparation and cytotoxicity of N-modified chitosan nanoparticles applied in curcumin delivery. International Journal of Biological Macromolecules, 2016, 87, 237-245.	3.6	63
16	Chitosan/iota-carrageenan and chitosan/pectin polyelectrolyte multilayer scaffolds with antiadhesive and bactericidal properties. Applied Surface Science, 2020, 502, 144282.	3.1	61
17	Composite materials based on chitosan/gold nanoparticles: From synthesis to biomedical applications. International Journal of Biological Macromolecules, 2020, 161, 977-998.	3.6	61
18	Superabsorbent hydrogel composites with a focus on hydrogels containing nanofibers or nanowhiskers of cellulose and chitin. Journal of Applied Polymer Science, 2014, 131, .	1.3	60

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19	Chitosan/chondroitin sulfate hydrogels prepared in [Hmim][HSO4] ionic liquid. Carbohydrate Polymers, 2017, 170, 99-106.	5.1	57
20	Preparation and cytotoxicity of N,N,N-trimethyl chitosan/alginate beads containing gold nanoparticles. International Journal of Biological Macromolecules, 2015, 72, 466-471.	3.6	55
21	Polyelectrolyte complexes of chitosan/heparin and N,N,N-trimethyl chitosan/heparin obtained at different pH: I. Preparation, characterization, and controlled release of heparin. Colloid and Polymer Science, 2011, 289, 1133-1144.	1.0	54
22	Biodegradable films based on commercial Î¹-carrageenan and cassava starch to achieve low production costs. International Journal of Biological Macromolecules, 2020, 165, 582-590.	3.6	54
23	Durable pectin/chitosan membranes with self-assembling, water resistance and enhanced mechanical properties. Carbohydrate Polymers, 2018, 188, 136-142.	5.1	49
24	Properties of a commercial Î¹-carrageenan food ingredient and its durable superabsorbent hydrogels. Carbohydrate Research, 2020, 487, 107883.	1.1	49
25	Polyelectrolyte complexes based on alginate/tanfloc: Optimization, characterization and medical application. International Journal of Biological Macromolecules, 2017, 103, 129-138.	3.6	46
26	N,N-Dimethyl chitosan/heparin polyelectrolyte complex vehicle for efficient heparin delivery. International Journal of Biological Macromolecules, 2015, 75, 186-191.	3.6	42
27	Chitosan/gellan gum ratio content into blends modulates the scaffolding capacity of hydrogels on bone mesenchymal stem cells. Materials Science and Engineering C, 2020, 106, 110258.	3.8	42
28	Bactericidal activity of hydrogel beads based on N,N,N-trimethyl chitosan/alginate complexes loaded with silver nanoparticles. Chinese Chemical Letters, 2015, 26, 1129-1132.	4.8	41
29	Polyelectrolyte complexes of poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate obtained at different pHs: I. Preparation, characterization, cytotoxicity and controlled release of chondroitin sulfate. International Journal of Pharmaceutics, 2014, 477, 197-207.	2.6	40
30	Enhanced hemocompatibility and antibacterial activity on titania nanotubes with tanfloc/heparin polyelectrolyte multilayers. Journal of Biomedical Materials Research - Part A, 2020, 108, 992-1005.	2.1	40
31	Advanced fibroblast proliferation inhibition for biocompatible coating by electrostatic layer-by-layer assemblies of heparin and chitosan derivatives. Journal of Colloid and Interface Science, 2016, 474, 9-17.	5.0	38
32	Chitosan content modulates durability and structural homogeneity of chitosan-gellan gum assemblies. International Journal of Biological Macromolecules, 2019, 128, 114-123.	3.6	37
33	Pectin-capped gold nanoparticles synthesis in-situ for producing durable, cytocompatible, and superabsorbent hydrogel composites with chitosan. International Journal of Biological Macromolecules, 2020, 147, 138-149.	3.6	36
34	Shielding effect of â€˜surface ion pairsâ€™ on physicochemical and bactericidal properties of N,N,N-trimethyl chitosan salts. Carbohydrate Research, 2015, 402, 252-260.	1.1	35
35	Tanfloc/heparin polyelectrolyte multilayers improve osteogenic differentiation of adipose-derived stem cells on titania nanotube surfaces. Carbohydrate Polymers, 2021, 251, 117079.	5.1	34
36	Polyelectrolyte complex containing silver nanoparticles with antitumor property on Caco-2 colon cancer cells. International Journal of Biological Macromolecules, 2015, 79, 748-755.	3.6	33

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37	Extent of shielding by counterions determines the bactericidal activity of N,N,N-trimethyl chitosan salts. Carbohydrate Polymers, 2016, 137, 418-425.	5.1	33
38	Novel cationic tannin/glycosaminoglycan-based polyelectrolyte multilayers promote stem cells adhesion and proliferation. RSC Advances, 2019, 9, 25836-25846.	1.7	33
39	Recent Advances in Designing Hydrogels from Chitin and Chitin-Derivatives and their Impact on Environment and Agriculture: A Review. Revista Virtual De Quimica, 2017, 9, 370-386.	0.1	33
40	Polysaccharide-Based Materials Associated with or Coordinated to Gold Nanoparticles: Synthesis and Medical Application. Current Medicinal Chemistry, 2017, 24, 2701-2735.	1.2	33
41	Polycationic condensed tannin/polysaccharide-based polyelectrolyte multilayers prevent microbial adhesion and proliferation. European Polymer Journal, 2020, 130, 109677.	2.6	32
42	Poly(vinyl alcohol)/cationic tannin blend films with antioxidant and antimicrobial activities. Materials Science and Engineering C, 2020, 107, 110357.	3.8	30
43	Synthesis of superparamagnetic activated carbon for paracetamol removal from aqueous solution. Journal of Molecular Liquids, 2020, 300, 112282.	2.3	30
44	Polysaccharide-based adsorbents prepared in ionic liquid with high performance for removing Pb(II) from aqueous systems. Carbohydrate Polymers, 2019, 215, 272-279.	5.1	29
45	Polyelectrolyte multilayers containing a tannin derivative polyphenol improve blood compatibility through interactions with platelets and serum proteins. Materials Science and Engineering C, 2020, 112, 110919.	3.8	29
46	Polysaccharide-Based Materials Created by Physical Processes: From Preparation to Biomedical Applications. Pharmaceutics, 2021, 13, 621.	2.0	29
47	Development of an ultrasound assisted method for determination of phytosterols in vegetable oil. Food Chemistry, 2018, 240, 441-447.	4.2	27
48	Chitosan/iota-carrageenan/curcumin-based materials performed by precipitating miscible solutions prepared in ionic liquid. Journal of Molecular Liquids, 2019, 290, 111199.	2.3	26
49	Metal-free ovalbumin-derived N-S-co-doped nanoporous carbon materials as efficient electrocatalysts for oxygen reduction reaction. Applied Surface Science, 2019, 467-468, 75-83.	3.1	26
50	Bactericidal Pectin/Chitosan/Glycerol Films for Food Pack Coatings: A Critical Viewpoint. International Journal of Molecular Sciences, 2020, 21, 8663.	1.8	23
51	Antimicrobial and cytocompatible chitosan, N,N,N-trimethyl chitosan, and tanfloc-based polyelectrolyte multilayers on gellan gum films. International Journal of Biological Macromolecules, 2021, 183, 727-742.	3.6	22
52	Thermo-and pH-responsive chitosan/gellan gum hydrogels incorporated with the Î²-cyclodextrin/curcumin inclusion complex for efficient curcumin delivery. Reactive and Functional Polymers, 2021, 165, 104955.	2.0	21
53	Synthesis, characterization, and cytotoxicity of TMC-graft-poly(vinyl alcohol) copolymers. Carbohydrate Research, 2013, 381, 153-160.	1.1	20
54	Purified glycerol is produced from the frying oil transesterification by combining a pre-purification strategy performed with condensed tannin polymer derivative followed by ionic exchange. Fuel Processing Technology, 2019, 187, 73-83.	3.7	18

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55	Optimization of thermal conditions of sol-gel method for synthesis of TiO2 using RSM and its influence on photodegradation of tartrazine yellow dye. Journal of Environmental Chemical Engineering, 2021, 9, 104753.	3.3	18
56	Ultra-high-performance liquid chromatography supports a new reaction mechanism between free radicals and ferulic acid with antimicrobial and antioxidant activities. Industrial Crops and Products, 2020, 154, 112701.	2.5	15
57	Removal of Cu(II) from aqueous solutions imparted by a pectin-based film: Cytocompatibility, antimicrobial, kinetic, and equilibrium studies. International Journal of Biological Macromolecules, 2020, 152, 77-89.	3.6	15
58	Electrospinning-electrospraying of poly(acid lactic) solutions in binary chloroform/formic acid and chloroform/acetic acid mixtures. Journal of Molecular Liquids, 2020, 320, 114448.	2.3	14
59	SPR platform based on image acquisition for HER2 antigen detection. Nanotechnology, 2017, 28, 045206.	1.3	13
60	Biodegradation of human keratin by protease from the basidiomycete Pleurotus pulmonarius. International Biodeterioration and Biodegradation, 2018, 127, 124-129.	1.9	13
61	Zein supports scaffolding capacity toward mammalian cells and bactericidal and antiadhesive properties on poly(Îµ-caprolactone)/zein electrospun fibers. Materials Today Chemistry, 2021, 20, 100465.	1.7	11
62	Natural carbohydrate-based thermosensitive chitosan/pectin adsorbent for removal of Pb(II) from aqueous solutions. International Journal of Biological Macromolecules, 2021, 193, 1813-1822.	3.6	11
63	Optimizing the EcovioÂ® and EcovioÂ®/zein solution parameters to achieve electrospinnability and provide thin fibers. Journal of Molecular Liquids, 2021, 321, 114476.	2.3	9
64	Composite filter with antimicrobial and anti-adhesive properties based on electrospun poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Journal of Membrane Science, 2022, 650, 120426.	4.1	9
65	Extended adsorbing surface reach and memory effects on the diffusive behavior of particles in confined systems. International Journal of Heat and Mass Transfer, 2020, 151, 119433.	2.5	8
66	Photophysics and drug delivery behavior of methylene blue into Arabic-gum based hydrogel matrices. Materials Today Communications, 2021, 26, 101889.	0.9	8
67	Surface driven reflection tuning in chiral nematic liquid crystals. Optics and Laser Technology, 2019, 120, 105745.	2.2	7
68	The cooling of blends in water supports durable, thermo-responsive, and porous gelatin-polyphenolic tannin assemblies with antimicrobial activities. Materials Today Communications, 2021, 26, 101883.	0.9	7
69	Chitosan/heparin blends in ionic liquid produce polyelectrolyte complexes that quickly adsorb citrate-capped silver nanoparticles, forming bactericidal composites. Journal of Molecular Liquids, 2021, 330, 115548.	2.3	7
70	Rod-shaped keratin nanoparticles extracted from human hair by acid hydrolysis as photothermally triggered berberine delivery system. Advanced Powder Technology, 2022, 33, 103353.	2.0	7
71	Incorporation of conjugated fatty acids into Nile tilapia (Oreochromis niloticus). Journal of the Science of Food and Agriculture, 2017, 97, 3469-3475.	1.7	6
72	Hydrogels Based on Chitosan and Chitosan Derivatives for Biomedical Applications. , 0, , .		6

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73	A tannin-polymer adsorbent created from the freezing-thawing method for removal of metal-complex acid black 172 and methylene blue from aqueous solutions. Journal of Molecular Liquids, 2022, 351, 118682.	2.3	6
74	Star-shaped amino-functionalized poly(glycerol methacrylate)-stabilized gold nanoparticle composites with catalytic activity for reduction of 4-nitrophenol. Journal of Molecular Liquids, 2020, 319, 114119.	2.3	5
75	Poly(ethylene terephthalate) films coated with antimicrobial gelatin/chondroitin sulfate polyelectrolyte multilayers containing ionic liquids. Progress in Organic Coatings, 2022, 170, 106997.	1.9	5
76	Thermo- and pH-Responsive Gelatin/Polyphenolic Tannin/Graphene Oxide Hydrogels for Efficient Methylene Blue Delivery. Molecules, 2021, 26, 4529.	1.7	4
77	Trans-resveratrol electrochemical detection using portable device based on unmodified screen-printed electrode. Journal of Pharmaceutical and Biomedical Analysis, 2022, 207, 114399.	1.4	4
78	Smart hydrogel beads with potential therapeutic target in Caco-2 colon cancer cells. Journal of Controlled Release, 2015, 213, e29.	4.8	3
79	Polyelectrolyte complexes of poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate obtained at different pHs: Preparation, characterization, cytotoxicity and controlled release of chondroitin sulfate. Journal of Controlled Release, 2015, 213, e29-e30.	4.8	2
80	Cytocompatible drug delivery devices based on poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate polyelectrolyte complexes prepared in ionic liquids. Journal of Drug Delivery Science and Technology, 2021, 63, 102520.	1.4	2
81	Chitosan Imparts Better Biological Properties for Poly(Îµ-caprolactone) Electrospun Membranes than Dexamethasone. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
82	Preparation of Polymeric Mats Through Electrospinning for Technological Uses. , 2017, , 83-128.		1
83	Application of a polyelectrolyte complex based on biocompatible polysaccharides for colorectal cancer inhibition. Carbohydrate Research, 2021, 499, 108194.	1.1	1
84	Improved in vitro endothelialization on nanostructured titania with tannin/glycosaminoglycan-based polyelectrolyte multilayers. In Vitro Models, 0, , .	1.0	1
85	Optimization and Validation of an Extraction Method for Evaluating the Availability of Cu, Zn, Mn, Ni, Cr and Cd in Soil with the Use of the Mehlich-1 Extractor. Journal of the Brazilian Chemical Society, 2018, , .	0.6	0
86	Sensitivity of phenolic compounds evaluated by a new approach of analytical methods. Chemical Papers, 2021, 75, 4849.	1.0	0
87	Effects of Different Numbers of Fungicide Application on the Proximate Composition of Soybean. Journal of the Brazilian Chemical Society, 2016, , .	0.6	0
88	SEQUÃŠNCIA DIDÃ¶TICA PARA A PROMOÃ‡ÃƒO DE ESTUDO PRÃ¶TICO E MULTIDISCIPLINAR COM MATERIAIS ACESSÃVEIS. Quimica Nova, 0, , .	0.3	0
89	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e500" altimg="si109.svg"><mml:mi>î°</mml:mi></mml:math>-Carrageenan-capped coreâ€“shell gold@silver nanoparticles: Optical device for hydrogen peroxide detection. Nano Structures Nano Objects, 2022, 30, 100861.	1.9	0