

Alessandro F Martins

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,769
citations

126858

33
h-index

133188

59
g-index

91
all docs

91
docs citations

91
times ranked

4787
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Trans-resveratrol electrochemical detection using portable device based on unmodified screen-printed electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 207, 114399. | 1.4 | 4 |
| 2 | Rod-shaped keratin nanoparticles extracted from human hair by acid hydrolysis as photothermally triggered berberine delivery system. <i>Advanced Powder Technology</i> , 2022, 33, 103353. | 2.0 | 7 |
| 3 | A tannin-polymer adsorbent created from the freezing-thawing method for removal of metal-complex acid black 172 and methylene blue from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2022, 351, 118682. | 2.3 | 6 |
| 4 | Composite filter with antimicrobial and anti-adhesive properties based on electrospun poly(butylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf <i>Journal of Membrane Science</i> , 2022, 650, 120426. | 4.1 | 9 |
| 5 | $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e500" altimg="si109.svg"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Carrageenan-capped core@shell gold@silver nanoparticles: Optical device for hydrogen peroxide detection. <i>Nano Structures Nano Objects</i> , 2022, 30, 100861. | 1.9 | 0 |
| 6 | Poly(ethylene terephthalate) films coated with antimicrobial gelatin/chondroitin sulfate polyelectrolyte multilayers containing ionic liquids. <i>Progress in Organic Coatings</i> , 2022, 170, 106997. | 1.9 | 5 |
| 7 | Tanfloc/heparin polyelectrolyte multilayers improve osteogenic differentiation of adipose-derived stem cells on titania nanotube surfaces. <i>Carbohydrate Polymers</i> , 2021, 251, 117079. | 5.1 | 34 |
| 8 | Recent advances on composite hydrogels designed for the remediation of dye-contaminated water and wastewater: A review. <i>Journal of Cleaner Production</i> , 2021, 284, 124703. | 4.6 | 141 |
| 9 | Application of a polyelectrolyte complex based on biocompatible polysaccharides for colorectal cancer inhibition. <i>Carbohydrate Research</i> , 2021, 499, 108194. | 1.1 | 1 |
| 10 | Optimization of thermal conditions of sol-gel method for synthesis of TiO ₂ using RSM and its influence on photodegradation of tartrazine yellow dye. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104753. | 3.3 | 18 |
| 11 | Photophysics and drug delivery behavior of methylene blue into Arabic-gum based hydrogel matrices. <i>Materials Today Communications</i> , 2021, 26, 101889. | 0.9 | 8 |
| 12 | The cooling of blends in water supports durable, thermo-responsive, and porous gelatin-polyphenolic tannin assemblies with antimicrobial activities. <i>Materials Today Communications</i> , 2021, 26, 101883. | 0.9 | 7 |
| 13 | Optimizing the Ecovio® and Ecovio®/zein solution parameters to achieve electrospinnability and provide thin fibers. <i>Journal of Molecular Liquids</i> , 2021, 321, 114476. | 2.3 | 9 |
| 14 | Polysaccharide-Based Materials Created by Physical Processes: From Preparation to Biomedical Applications. <i>Pharmaceutics</i> , 2021, 13, 621. | 2.0 | 29 |
| 15 | Chitosan/heparin blends in ionic liquid produce polyelectrolyte complexes that quickly adsorb citrate-capped silver nanoparticles, forming bactericidal composites. <i>Journal of Molecular Liquids</i> , 2021, 330, 115548. | 2.3 | 7 |
| 16 | Sensitivity of phenolic compounds evaluated by a new approach of analytical methods. <i>Chemical Papers</i> , 2021, 75, 4849. | 1.0 | 0 |
| 17 | Cytocompatible drug delivery devices based on poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate polyelectrolyte complexes prepared in ionic liquids. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102520. | 1.4 | 2 |
| 18 | Zein supports scaffolding capacity toward mammalian cells and bactericidal and antiadhesive properties on poly(μ -caprolactone)/zein electrospun fibers. <i>Materials Today Chemistry</i> , 2021, 20, 100465. | 1.7 | 11 |

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|----|---|-----|-----------|
| 19 | Thermo- and pH-Responsive Gelatin/Polyphenolic Tannin/Graphene Oxide Hydrogels for Efficient Methylene Blue Delivery. <i>Molecules</i> , 2021, 26, 4529. | 1.7 | 4 |
| 20 | Antimicrobial and cytocompatible chitosan, N,N,N-trimethyl chitosan, and tanfloc-based polyelectrolyte multilayers on gellan gum films. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 727-742. | 3.6 | 22 |
| 21 | Thermo- and pH-responsive chitosan/gellan gum hydrogels incorporated with the β -cyclodextrin/curcumin inclusion complex for efficient curcumin delivery. <i>Reactive and Functional Polymers</i> , 2021, 165, 104955. | 2.0 | 21 |
| 22 | Natural carbohydrate-based thermosensitive chitosan/pectin adsorbent for removal of Pb(II) from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1813-1822. | 3.6 | 11 |
| 23 | Chitosan/gellan gum ratio content into blends modulates the scaffolding capacity of hydrogels on bone mesenchymal stem cells. <i>Materials Science and Engineering C</i> , 2020, 106, 110258. | 3.8 | 42 |
| 24 | Poly(vinyl alcohol)/cationic tannin blend films with antioxidant and antimicrobial activities. <i>Materials Science and Engineering C</i> , 2020, 107, 110357. | 3.8 | 30 |
| 25 | Chitosan/iota-carrageenan and chitosan/pectin polyelectrolyte multilayer scaffolds with antiadhesive and bactericidal properties. <i>Applied Surface Science</i> , 2020, 502, 144282. | 3.1 | 61 |
| 26 | Enhanced hemocompatibility and antibacterial activity on titania nanotubes with tanfloc/heparin polyelectrolyte multilayers. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 992-1005. | 2.1 | 40 |
| 27 | Pectin-capped gold nanoparticles synthesis in-situ for producing durable, cytocompatible, and superabsorbent hydrogel composites with chitosan. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 138-149. | 3.6 | 36 |
| 28 | Synthesis of superparamagnetic activated carbon for paracetamol removal from aqueous solution. <i>Journal of Molecular Liquids</i> , 2020, 300, 112282. | 2.3 | 30 |
| 29 | Properties of a commercial κ -carrageenan food ingredient and its durable superabsorbent hydrogels. <i>Carbohydrate Research</i> , 2020, 487, 107883. | 1.1 | 49 |
| 30 | Star-shaped amino-functionalized poly(glycerol methacrylate)-stabilized gold nanoparticle composites with catalytic activity for reduction of 4-nitrophenol. <i>Journal of Molecular Liquids</i> , 2020, 319, 114119. | 2.3 | 5 |
| 31 | Biodegradable films based on commercial κ -carrageenan and cassava starch to achieve low production costs. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 582-590. | 3.6 | 54 |
| 32 | Electrospinning-electrospraying of poly(acid lactic) solutions in binary chloroform/formic acid and chloroform/acetic acid mixtures. <i>Journal of Molecular Liquids</i> , 2020, 320, 114448. | 2.3 | 14 |
| 33 | Bactericidal Pectin/Chitosan/Glycerol Films for Food Pack Coatings: A Critical Viewpoint. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8663. | 1.8 | 23 |
| 34 | Composite materials based on chitosan/gold nanoparticles: From synthesis to biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 977-998. | 3.6 | 61 |
| 35 | Ultra-high-performance liquid chromatography supports a new reaction mechanism between free radicals and ferulic acid with antimicrobial and antioxidant activities. <i>Industrial Crops and Products</i> , 2020, 154, 112701. | 2.5 | 15 |
| 36 | Removal of Cu(II) from aqueous solutions imparted by a pectin-based film: Cytocompatibility, antimicrobial, kinetic, and equilibrium studies. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 77-89. | 3.6 | 15 |

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|----|---|-----|-----------|
| 37 | Extended adsorbing surface reach and memory effects on the diffusive behavior of particles in confined systems. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119433. | 2.5 | 8 |
| 38 | Polycationic condensed tannin/polysaccharide-based polyelectrolyte multilayers prevent microbial adhesion and proliferation. <i>European Polymer Journal</i> , 2020, 130, 109677. | 2.6 | 32 |
| 39 | Polyelectrolyte multilayers containing a tannin derivative polyphenol improve blood compatibility through interactions with platelets and serum proteins. <i>Materials Science and Engineering C</i> , 2020, 112, 110919. | 3.8 | 29 |
| 40 | Surface driven reflection tuning in chiral nematic liquid crystals. <i>Optics and Laser Technology</i> , 2019, 120, 105745. | 2.2 | 7 |
| 41 | Novel cationic tannin/glycosaminoglycan-based polyelectrolyte multilayers promote stem cells adhesion and proliferation. <i>RSC Advances</i> , 2019, 9, 25836-25846. | 1.7 | 33 |
| 42 | Chitosan content modulates durability and structural homogeneity of chitosan-gellan gum assemblies. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 114-123. | 3.6 | 37 |
| 43 | Chitosan/iota-carrageenan/curcumin-based materials prepared by precipitating miscible solutions in ionic liquid. <i>Journal of Molecular Liquids</i> , 2019, 290, 111199. | 2.3 | 26 |
| 44 | Polysaccharide-based adsorbents prepared in ionic liquid with high performance for removing Pb(II) from aqueous systems. <i>Carbohydrate Polymers</i> , 2019, 215, 272-279. | 5.1 | 29 |
| 45 | 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. <i>Fuel Processing Technology</i> , 2019, 187, 73-83. | 3.7 | 18 |
| 46 | Metal-free ovalbumin-derived N-S-co-doped nanoporous carbon materials as efficient electrocatalysts for oxygen reduction reaction. <i>Applied Surface Science</i> , 2019, 467-468, 75-83. | 3.1 | 26 |
| 47 | Novel poly(ϵ -caprolactone)/amino-functionalized tannin electrospun membranes as scaffolds for tissue engineering. <i>Journal of Colloid and Interface Science</i> , 2018, 525, 21-30. | 5.0 | 70 |
| 48 | Durable pectin/chitosan membranes with self-assembling, water resistance and enhanced mechanical properties. <i>Carbohydrate Polymers</i> , 2018, 188, 136-142. | 5.1 | 49 |
| 49 | New magnetic chitosan/alginate/Fe ₃ O ₄ @SiO ₂ hydrogel composites applied for removal of Pb(II) ions from aqueous systems. <i>Chemical Engineering Journal</i> , 2018, 337, 595-608. | 6.6 | 118 |
| 50 | Biodegradation of human keratin by protease from the basidiomycete <i>Pleurotus pulmonarius</i> . <i>International Biodeterioration and Biodegradation</i> , 2018, 127, 124-129. | 1.9 | 13 |
| 51 | Development of an ultrasound assisted method for determination of phytosterols in vegetable oil. <i>Food Chemistry</i> , 2018, 240, 441-447. | 4.2 | 27 |
| 52 | Pectin-chitosan membrane scaffold imparts controlled stem cell adhesion and proliferation. <i>Carbohydrate Polymers</i> , 2018, 197, 47-56. | 5.1 | 99 |
| 53 | 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. <i>Journal of the Brazilian Chemical Society</i> , 2018, , . | 0.6 | 0 |
| 54 | Curcumin-loaded dual pH- and thermo-responsive magnetic microcarriers based on pectin maleate for drug delivery. <i>Carbohydrate Polymers</i> , 2017, 171, 259-266. | 5.1 | 67 |

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|----|--|-----|-----------|
| 55 | Polyelectrolyte complexes based on alginate/tanfloc: Optimization, characterization and medical application. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 129-138. | 3.6 | 46 |
| 56 | Scaffolds based on chitosan/pectin thermosensitive hydrogels containing gold nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 1186-1194. | 3.6 | 73 |
| 57 | Chitosan/chondroitin sulfate hydrogels prepared in [Hmim][HSO ₄] ionic liquid. <i>Carbohydrate Polymers</i> , 2017, 170, 99-106. | 5.1 | 57 |
| 58 | SPR platform based on image acquisition for HER2 antigen detection. <i>Nanotechnology</i> , 2017, 28, 045206. | 1.3 | 13 |
| 59 | Preparation of Polymeric Mats Through Electrospinning for Technological Uses. , 2017, , 83-128. | | 1 |
| 60 | Incorporation of conjugated fatty acids into Nile tilapia (<i>Oreochromis niloticus</i>). <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 3469-3475. | 1.7 | 6 |
| 61 | Recent Advances in Designing Hydrogels from Chitin and Chitin-Derivatives and their Impact on Environment and Agriculture: A Review. <i>Revista Virtual De Quimica</i> , 2017, 9, 370-386. | 0.1 | 33 |
| 62 | Polysaccharide-Based Materials Associated with or Coordinated to Gold Nanoparticles: Synthesis and Medical Application. <i>Current Medicinal Chemistry</i> , 2017, 24, 2701-2735. | 1.2 | 33 |
| 63 | Advanced fibroblast proliferation inhibition for biocompatible coating by electrostatic layer-by-layer assemblies of heparin and chitosan derivatives. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 9-17. | 5.0 | 38 |
| 64 | Preparation and cytotoxicity of N-modified chitosan nanoparticles applied in curcumin delivery. <i>International Journal of Biological Macromolecules</i> , 2016, 87, 237-245. | 3.6 | 63 |
| 65 | Extent of shielding by counterions determines the bactericidal activity of N,N,N-trimethyl chitosan salts. <i>Carbohydrate Polymers</i> , 2016, 137, 418-425. | 5.1 | 33 |
| 66 | Effects of Different Numbers of Fungicide Application on the Proximate Composition of Soybean. <i>Journal of the Brazilian Chemical Society</i> , 2016, , . | 0.6 | 0 |
| 67 | Bactericidal activity of hydrogel beads based on N,N,N-trimethyl chitosan/alginate complexes loaded with silver nanoparticles. <i>Chinese Chemical Letters</i> , 2015, 26, 1129-1132. | 4.8 | 41 |
| 68 | Polyelectrolyte complex containing silver nanoparticles with antitumor property on Caco-2 colon cancer cells. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 748-755. | 3.6 | 33 |
| 69 | N,N-Dimethyl chitosan/heparin polyelectrolyte complex vehicle for efficient heparin delivery. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 186-191. | 3.6 | 42 |
| 70 | Superabsorbent hydrogels based on polysaccharides for application in agriculture as soil conditioner and nutrient carrier: A review. <i>European Polymer Journal</i> , 2015, 72, 365-385. | 2.6 | 514 |
| 71 | Smart hydrogel beads with potential therapeutic target in Caco-2 colon cancer cells. <i>Journal of Controlled Release</i> , 2015, 213, e29. | 4.8 | 3 |
| 72 | Polyelectrolyte complexes of poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate obtained at different pHs: Preparation, characterization, cytotoxicity and controlled release of chondroitin sulfate. <i>Journal of Controlled Release</i> , 2015, 213, e29-e30. | 4.8 | 2 |

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|----|--|-----|-----------|
| 73 | Shielding effect of ϵ -surface ion pairs TM on physicochemical and bactericidal properties of N,N,N-trimethyl chitosan salts. <i>Carbohydrate Research</i> , 2015, 402, 252-260. | 1.1 | 35 |
| 74 | Synthesis and characterization of pectin derivative with antitumor property against Caco-2 colon cancer cells. <i>Carbohydrate Polymers</i> , 2015, 115, 139-145. | 5.1 | 75 |
| 75 | Preparation and cytotoxicity of N,N,N-trimethyl chitosan/alginate beads containing gold nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 466-471. | 3.6 | 55 |
| 76 | Recent Advances in Food-Packing, Pharmaceutical and Biomedical Applications of Zein and Zein-Based Materials. <i>International Journal of Molecular Sciences</i> , 2014, 15, 22438-22470. | 1.8 | 215 |
| 77 | Antimicrobial Activity of Chitosan Derivatives Containing N-Quaternized Moieties in Its Backbone: A Review. <i>International Journal of Molecular Sciences</i> , 2014, 15, 20800-20832. | 1.8 | 219 |
| 78 | Superabsorbent hydrogel composites with a focus on hydrogels containing nanofibers or nanowhiskers of cellulose and chitin. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 1.3 | 60 |
| 79 | Polyelectrolyte complexes of poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate obtained at different pHs: I. Preparation, characterization, cytotoxicity and controlled release of chondroitin sulfate. <i>International Journal of Pharmaceutics</i> , 2014, 477, 197-207. | 2.6 | 40 |
| 80 | Characterization of N-trimethyl chitosan/alginate complexes and curcumin release. <i>International Journal of Biological Macromolecules</i> , 2013, 57, 174-184. | 3.6 | 109 |
| 81 | Synthesis, characterization, and cytotoxicity of TMC-graft-poly(vinyl alcohol) copolymers. <i>Carbohydrate Research</i> , 2013, 381, 153-160. | 1.1 | 20 |
| 82 | Antiadhesive and Antibacterial Multilayer Films via Layer-by-Layer Assembly of TMC/Heparin Complexes. <i>Biomacromolecules</i> , 2012, 13, 3711-3722. | 2.6 | 86 |
| 83 | Chitosan/TPP microparticles obtained by microemulsion method applied in controlled release of heparin. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 1127-1133. | 3.6 | 137 |
| 84 | Polyelectrolyte complexes of chitosan/heparin and N,N,N-trimethyl chitosan/heparin obtained at different pH: I. Preparation, characterization, and controlled release of heparin. <i>Colloid and Polymer Science</i> , 2011, 289, 1133-1144. | 1.0 | 54 |
| 85 | Characterization of polyelectrolytes complexes based on N,N,N-trimethyl chitosan/heparin prepared at different pH conditions. <i>Carbohydrate Polymers</i> , 2011, 86, 1266-1272. | 5.1 | 97 |
| 86 | Hydrogels Based on Chitosan and Chitosan Derivatives for Biomedical Applications. , 0, , . | | 6 |
| 87 | Chitosan Imparts Better Biological Properties for Poly(μ -caprolactone) Electrospun Membranes than Dexamethasone. <i>Journal of the Brazilian Chemical Society</i> , 0, , . | 0.6 | 2 |
| 88 | SEQUÊNCIA DIDÁTICA PARA A PROMOÇÃO DO ESTUDO PRÁTICO E MULTIDISCIPLINAR COM MATERIAIS ACESSÁVEIS. <i>Química Nova</i> , 0, , . | 0.3 | 0 |
| 89 | Improved in vitro endothelialization on nanostructured titania with tannin/glycosaminoglycan-based polyelectrolyte multilayers. <i>In Vitro Models</i> , 0, , . | 1.0 | 1 |