

Rilton A De Freitas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

2,054
citations

25
h-index

42
g-index

88
ext. papers

2,417
ext. citations

6.6
avg, IF

5.01
L-index

#	Paper	IF	Citations
86	Bacterial cellulose in biomedical applications: A review. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 97-106	7.9	336
85	Effect of surface and porosity of biochar on water holding capacity aiming indirectly at preservation of the Amazon biome. <i>Scientific Reports</i> , 2018 , 8, 10677	4.9	133
84	Physicochemical and mechanical characterization of galactomannan from <i>Mimosa scabrella</i> : Effect of drying method. <i>Carbohydrate Polymers</i> , 2009 , 76, 86-93	10.3	94
83	Amylose contents, rheological properties and gelatinization kinetics of yam (<i>Dioscorea alata</i>) and cassava (<i>Manihot utilissima</i>) starches. <i>Carbohydrate Polymers</i> , 2004 , 55, 3-8	10.3	90
82	Physico-chemical properties of seed xyloglucans from different sources. <i>Carbohydrate Polymers</i> , 2005 , 60, 507-514	10.3	70
81	Stabilization of Water-in-Water Emulsions by Polysaccharide-Coated Protein Particles. <i>Langmuir</i> , 2016 , 32, 1227-32	4	66
80	Piezoelectric immunochip coated with thin films of bacterial cellulose nanocrystals for dengue detection. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 47-53	11.8	61
79	Layer-by-layer polysaccharide-coated liposomes for sustained delivery of epidermal growth factor. <i>Carbohydrate Polymers</i> , 2016 , 140, 129-35	10.3	56
78	Microencapsulation of Juçara (<i>Euterpe edulis</i> M.) Pulp by Spray Drying Using Different Carriers and Drying Temperatures. <i>Drying Technology</i> , 2015 , 33, 153-161	2.6	54
77	Electrospinning of commercial guar-gum: Effects of purification and filtration. <i>Carbohydrate Polymers</i> , 2013 , 93, 484-91	10.3	50
76	Chemical structure and physical-chemical properties of mucilage from the leaves of <i>Pereskia aculeata</i> . <i>Food Hydrocolloids</i> , 2017 , 70, 20-28	10.6	47
75	A rheological description of mixtures of a galactoxyloglucan with high amylose and waxy corn starches. <i>Carbohydrate Polymers</i> , 2003 , 51, 25-32	10.3	47
74	Effects of iota-carrageenan on the rheological properties of starches. <i>Carbohydrate Polymers</i> , 2006 , 65, 49-57	10.3	44
73	Chitosan and N-carboxymethylchitosan: I. The role of N-carboxymethylation of chitosan in the thermal stability and dynamic mechanical properties of its films. <i>Polymer International</i> , 2006 , 55, 961-969 ³	3.3	40
72	Alternative sources of oils and fats from Amazonian plants: Fatty acids, methyl tocols, total carotenoids and chemical composition. <i>Food Research International</i> , 2019 , 116, 12-19	7	40
71	Characterization and potential uses of <i>Copaifera langsdorfii</i> seeds and seed oil. <i>Bioresource Technology</i> , 2008 , 99, 2659-63	11	39
70	Sesquiterpene lactones from <i>Vernonia scorpioides</i> and their in vitro cytotoxicity. <i>Phytochemistry</i> , 2010 , 71, 1539-44	4	37

69	Layered clay minerals, synthetic layered double hydroxides and hydroxide salts applied as pickering emulsifiers. <i>Applied Clay Science</i> , 2019 , 169, 10-20	5.2	37
68	Topical curcumin-loaded hydrogels obtained using galactomannan from <i>Schizolobium parahybae</i> and xanthan. <i>Carbohydrate Polymers</i> , 2015 , 116, 229-36	10.3	36
67	Antioxidant idebenone-loaded nanoparticles based on chitosan and N-carboxymethylchitosan. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010 , 6, 745-52	6	32
66	Adsorption behavior of oxidized galactomannans onto amino-terminated surfaces and their interaction with bovine serum albumin. <i>Carbohydrate Polymers</i> , 2002 , 49, 167-175	10.3	29
65	Bacterial cellulose nanocrystals: impact of the sulfate content on the interaction with xyloglucan. <i>Cellulose</i> , 2015 , 22, 1773-1787	5.5	27
64	Alumina nanoparticles as formaldehyde scavenger for urea-formaldehyde resin: Rheological and in-situ cure performance. <i>Composites Part B: Engineering</i> , 2019 , 176, 107281	10	26
63	Lysozyme-triggered epidermal growth factor release from bacterial cellulose membranes controlled by smart nanostructured films. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 3958-3965	3.9	25
62	Degalatosylation of xyloglucan: Effect on aggregation and conformation, as determined by time dependent static light scattering, HPSEC-MALLS and viscosimetry. <i>Carbohydrate Polymers</i> , 2011 , 83, 1636-1642	10.3	25
61	Influence of mechanical pretreatment to isolate cellulose nanocrystals by sulfuric acid hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 622-626	7.9	24
60	Modification of ulvans via periodate-chlorite oxidation: Chemical characterization and anticoagulant activity. <i>Carbohydrate Polymers</i> , 2018 , 197, 631-640	10.3	23
59	Tuning Fe ₃ O ₄ nanoparticle dispersion through pH in PVA/guar gum/electrospun membranes. <i>Carbohydrate Polymers</i> , 2015 , 134, 775-83	10.3	22
58	Hydrophilicity improvement of mercerized bacterial cellulose films by polyethylene glycol graft. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 599-605	7.9	21
57	Chemical composition, antioxidant and antinociceptive properties of <i>Litchi chinensis</i> leaves. <i>Journal of Pharmacy and Pharmacology</i> , 2014 , 66, 1796-807	4.8	21
56	Simple and effective purification approach to dissociate mixed water-insoluble β - and β -D-glucans and its application on the medicinal mushroom <i>Fomitopsis betulina</i> . <i>Carbohydrate Polymers</i> , 2018 , 200, 353-360	10.3	17
55	Characterization of stability, aggregation, and equilibrium properties of modified natural products; The case of carboxymethylated chitosans. <i>Materials Science and Engineering C</i> , 2010 , 30, 34-41	8.3	17
54	TEMPO-mediated oxidation on galactomannan: Gal/Man ratio and chain flexibility dependence. <i>Carbohydrate Polymers</i> , 2016 , 153, 371-378	10.3	16
53	Transient and quasi-permanent networks in xyloglucan solutions. <i>Carbohydrate Polymers</i> , 2015 , 129, 216-23	10.3	15
52	Echogenicity enhancement by end-fluorinated polylactide perfluorohexane nanocapsules: Towards ultrasound-activable nanosystems. <i>Acta Biomaterialia</i> , 2017 , 64, 313-322	10.8	14

51	Influence of the extraction time on macromolecular parameters of galactomannans. <i>Carbohydrate Polymers</i> , 2015 , 116, 200-6	10.3	14
50	Rheological characterization of a xanthan-galactomannan hydrogel loaded with lipophilic substances. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 2457-67	3.9	14
49	Antioxidant activity and low cytotoxicity of extracts and isolated compounds from <i>Araucaria angustifolia</i> dead bark. <i>Redox Report</i> , 2010 , 15, 234-42	5.9	14
48	A new polyacetylene from <i>Vernonia scorpioides</i> (Lam.) Pers. (Asteraceae) and its in vitro antitumoral activity. <i>Journal of the Brazilian Chemical Society</i> , 2009 , 20, 1327-1333	1.5	14
47	Films of chitosan and N-carboxymethylchitosan. Part II: effect of plasticizers on their physicochemical properties. <i>Polymer International</i> , 2006 , 55, 970-977	3.3	14
46	Effect of the oxidation level on the thermogravimetric kinetics of an oxidized galactoxyloglucan from <i>Hymenaea courbaril</i> (Jatobá) seeds. <i>Thermochimica Acta</i> , 2004 , 409, 41-47	2.9	14
45	Physicochemical aspects of galactoxyloglucan from the seeds of <i>Hymenaea courbaril</i> and its tetraborate complex. <i>Carbohydrate Polymers</i> , 2003 , 54, 287-295	10.3	14
44	Nanocapsule of cationic liposomes obtained using "in situ" acrylic acid polymerization: stability, surface charge and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 267-72	6	12
43	Conformational analysis of ulvans from <i>Ulva fasciata</i> and their anticoagulant polycarboxylic derivatives. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 599-608	7.9	10
42	Simultaneous in situ monitoring of acrylic acid polymerization reaction on N-carboxymethyl chitosan using multidetectors: Formation of a new bioadhesive and gastroprotective hybrid particle. <i>Materials Science and Engineering C</i> , 2011 , 31, 677-682	8.3	10
41	Production, characterization, and biological activity of a chitin-like EPS produced by <i>Mortierella alpina</i> under submerged fermentation. <i>Carbohydrate Polymers</i> , 2020 , 247, 116716	10.3	9
40	Pickering emulsions formation using kaolinite and Brazil nut oil: particle hydrophobicity and oil self emulsion effect. <i>Journal of Dispersion Science and Technology</i> , 2018 , 39, 901-910	1.5	9
39	Development and Validation of a RP-HPLC/MS/MS Method for Determination of Curcuminoids in Microemulsions. <i>Chromatographia</i> , 2013 , 76, 1041-1048	2.1	9
38	Characterisation of ultra-thin films of oxidised bacterial cellulose for enhanced anchoring and build-up of polyelectrolyte multilayers. <i>Colloid and Polymer Science</i> , 2014 , 292, 97-105	2.4	9
37	Effect of pH and protein particle shape on the stability of amylopectin-xylloglucan water-in-water emulsions. <i>Food Hydrocolloids</i> , 2020 , 104, 105769	10.6	8
36	Xyloglucan gelation induced by enzymatic degalactosylation; kinetics and the effect of the molar mass. <i>Carbohydrate Polymers</i> , 2017 , 174, 517-523	10.3	8
35	Ripe fruits of <i>Bromelia antiacantha</i> : investigations on the chemical and bioactivity profile. <i>Revista Brasileira De Farmacognosia</i> , 2009 , 19, 358-365	2	8
34	Polysaccharide depolymerization from TEMPO-catalysis: Effect of TEMPO concentration. <i>Carbohydrate Polymers</i> , 2017 , 170, 140-147	10.3	7

33	Modulation of Epidermal Growth Factor Release by Biopolymer-Coated Liposomes. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 2294-2301	3.9	7
32	Salt-induced thermal gelation of xyloglucan in aqueous media. <i>Carbohydrate Polymers</i> , 2019 , 223, 115083-115093	10.3	7
31	Sensing soluble uric acid by Naip1-Nlrp3 platform. <i>Cell Death and Disease</i> , 2021 , 12, 158	9.8	7
30	Comparison between the interactions of the cationic surfactant DODAB with xanthan and galactomannan. <i>Carbohydrate Polymers</i> , 2015 , 115, 478-84	10.3	6
29	Effects of Eugenia umbelliflora O. Berg (Myrtaceae)-leaf extract on inflammation and hypersensitivity. <i>Journal of Ethnopharmacology</i> , 2019 , 244, 112133	5	6
28	Cytotoxic, antitumour and antimetastatic activity of two new polyacetylenes isolated from Vernonia scorpioides (Lam.) Pers. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2013 , 113, 307-15	3.1	6
27	Seasonal influence and cytotoxicity of extracts, fractions and major compounds from Allamanda schottii. <i>Revista Brasileira De Farmacognosia</i> , 2014 , 24, 545-552	2	6
26	Effect of Different Tensioactives on the Morphology and Release Kinetics of PLA-b-PEG Microcapsules Loaded With the Natural Anticancer Compound Perillyl Alcohol. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 860-869	3.9	6
25	Hepatoprotective effect of Maytenus robusta Reiss extract on CCl ₄ -induced hepatotoxicity in mice and HepG2 cells. <i>Regulatory Toxicology and Pharmacology</i> , 2017 , 86, 93-100	3.4	5
24	Real-time monitoring of the change in stiffness of single-strand xanthan gum induced by NaCl. <i>Food Hydrocolloids</i> , 2015 , 44, 191-197	10.6	5
23	K-shigaite-like layered double hydroxide particles as Pickering emulsifiers in oil/water emulsions. <i>Applied Clay Science</i> , 2020 , 193, 105660	5.2	5
22	Stability-Indicating LC-PDA Method for Determination of Idebenone in Nanoparticles Based on Chitosan and N-Carboxymethylchitosan. <i>Chromatographia</i> , 2009 , 70, 1411-1415	2.1	5
21	Spherical aggregates obtained from N-carboxymethylation and acetylation of chitosan. <i>Colloid and Polymer Science</i> , 2008 , 286, 1387-1394	2.4	5
20	Interaction of guar gum galactomannans with the anionic surfactant sodium lauryl ether sulphate. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 713-721	7.9	5
19	Lignin from oil palm empty fruit bunches: Characterization, biological activities and application in green synthesis of silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1499-1507	7.9	5
18	Time-dependent viscometry study of endoglucanase action on xyloglucan: A real-time approach. <i>International Journal of Biological Macromolecules</i> , 2015 , 81, 461-6	7.9	4
17	Synthesis of N-benzyl-O-carboxymethylchitosan and application in the solubilization enhancement of a poorly water-soluble drug (triamcinolone). <i>Journal of Applied Polymer Science</i> , 2012 , 124, 4206-4212	2.9	4
16	HPLC Stability Indicating Assay Method for Metformin Hydrochloride in Bulk Drug and Tablets and Cytotoxicity of Degradation Products. <i>Current Pharmaceutical Analysis</i> , 2012 , 8, 368-374	0.6	4

15	Engineered biomarkers for leprosy diagnosis using labeled and label-free analysis. <i>Talanta</i> , 2018 , 187, 165-171	6.2	4
14	Rheological description of the interaction of xyloglucan and starches: effect of the amylose content in starches. <i>CYTA - Journal of Food</i> , 2015 , 13, 235-242	2.3	3
13	Development, characterization and antimicrobial activity of sodium dodecyl sulfate-polysaccharides capsules containing eugenol. <i>Carbohydrate Polymers</i> , 2020 , 230, 115562	10.3	3
12	DODAB-DOPE liposome surface coating using in-situ acrylic acid polymerization. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115689	6	3
11	Core-shell particles formed by β -lactoglobulin microgel coated with xyloglucan. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 357-361	7.9	3
10	Shigaite, natroglaucocerinite and motukoreaite-like layered double hydroxides as Pickering emulsifiers in water/oil emulsions: A comparative study. <i>Applied Clay Science</i> , 2021 , 201, 105918	5.2	3
9	Impact of Polylactide Fluorinated End-Group Lengths and Their Dynamics on Perfluorohexane Microcapsule Morphology. <i>Macromolecules</i> , 2019 , 52, 2589-2596	5.5	2
8	Development of a topical gel containing dried extract of <i>Ipomoea pes-caprae brasiliensis</i> (L.) R. Br. (Convolvulaceae). <i>Journal of Medicinal Plants Research</i> , 2014 , 8, 1074-1080	0.6	2
7	Rheological properties of low-density polyethylene filled with hydrophobic Co(Ni)-Al layered double hydroxides. <i>Polimeros</i> , 2019 , 29,	1.6	1
6	Physicochemical and immunological characterization of chitosan-coated bacteriophage nanoparticles for in vivo mycotoxin modeling. <i>Carbohydrate Polymers</i> , 2018 , 185, 63-72	10.3	1
5	Reproductive toxicology and clastogenic evaluation in mice of a phytotherapeutic formulation obtained from <i>Cinchona calisaya</i> Weddel (Rubiaceae) used in Brazilian folk medicine as female fertility stimulant. <i>Journal of Ethnopharmacology</i> , 2014 , 155, 1508-12	5	1
4	Stabilization of amylopectin-pullulan water in water emulsions by Interacting protein particles. <i>Food Hydrocolloids</i> , 2022 , 124, 107320	10.6	1
3	Chitosan-coated microvesicles: Effect of polysaccharide-phospholipid affinity on decafluorobutane dissolution. <i>Carbohydrate Polymers</i> , 2016 , 153, 169-175	10.3	0
2	Oleic acid as a synergistic agent in the formation of kaolinite-mineral oil Pickering emulsions. <i>Applied Clay Science</i> , 2022 , 216, 106378	5.2	0
1	Rheological and microstructural characterisation of heat-induced whey protein isolate gels affected by the addition of caseinomacropptide.. <i>Journal of Dairy Research</i> , 2022 , 1-8	1.6	