

Rilton A De Freitas

List of Publications by Year in descending order

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87
papers

2,790
citations

201385

27
h-index

189595

50
g-index

88
all docs

88
docs citations

88
times ranked

4546
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial cellulose in biomedical applications: A review. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 97-106.	3.6	457
2	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.	1.6	222
3	Physicochemical and mechanical characterization of galactomannan from <i>Mimosa scabrella</i> : Effect of drying method. <i>Carbohydrate Polymers</i> , 2009, 76, 86-93.	5.1	107
4	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.	5.1	104
5	Stabilization of Water-in-Water Emulsions by Polysaccharide-Coated Protein Particles. <i>Langmuir</i> , 2016, 32, 1227-1232.	1.6	86
6	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.	1.7	83
7	Alternative sources of oils and fats from Amazonian plants: Fatty acids, methyl tocopherols, total carotenoids and chemical composition. <i>Food Research International</i> , 2019, 116, 12-19.	2.9	82
8	Physico-chemical properties of seed xyloglucans from different sources. <i>Carbohydrate Polymers</i> , 2005, 60, 507-514.	5.1	79
9	Piezoelectric immunochip coated with thin films of bacterial cellulose nanocrystals for dengue detection. <i>Biosensors and Bioelectronics</i> , 2017, 92, 47-53.	5.3	76
10	Layer-by-layer polysaccharide-coated liposomes for sustained delivery of epidermal growth factor. <i>Carbohydrate Polymers</i> , 2016, 140, 129-135.	5.1	67
11	Electrospinning of commercial guar-gum: Effects of purification and filtration. <i>Carbohydrate Polymers</i> , 2013, 93, 484-491.	5.1	66
12	Chemical structure and physical-chemical properties of mucilage from the leaves of <i>Pereskia aculeata</i> . <i>Food Hydrocolloids</i> , 2017, 70, 20-28.	5.6	66
13	Layered clay minerals, synthetic layered double hydroxides and hydroxide salts applied as pickering emulsifiers. <i>Applied Clay Science</i> , 2019, 169, 10-20.	2.6	58
14	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.	1.6	56
15	A rheological description of mixtures of a galactoxyloglucan with high amylose and waxy corn starches. <i>Carbohydrate Polymers</i> , 2003, 51, 25-32.	5.1	51
16	Topical curcumin-loaded hydrogels obtained using galactomannan from <i>Schizolobium parahybae</i> and xanthan. <i>Carbohydrate Polymers</i> , 2015, 116, 229-236.	5.1	48
17	Alumina nanoparticles as formaldehyde scavenger for urea-formaldehyde resin: Rheological and in-situ cure performance. <i>Composites Part B: Engineering</i> , 2019, 176, 107281.	5.9	47
18	Sesquiterpene lactones from <i>Vernonia scorpioides</i> and their in vitro cytotoxicity. <i>Phytochemistry</i> , 2010, 71, 1539-1544.	1.4	46

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19	Effects of iota-carrageenan on the rheological properties of starches. <i>Carbohydrate Polymers</i> , 2006, 65, 49-57.	5.1	45
20	Characterization and potential uses of <i>Copaifera langsdorfii</i> seeds and seed oil. <i>Bioresource Technology</i> , 2008, 99, 2659-2663.	4.8	43
21	Antioxidant idebenone-loaded nanoparticles based on chitosan and N-carboxymethylchitosan. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 745-752.	1.7	40
22	Influence of mechanical pretreatment to isolate cellulose nanocrystals by sulfuric acid hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 622-626.	3.6	36
23	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.	1.6	35
24	Bacterial cellulose nanocrystals: impact of the sulfate content on the interaction with xyloglucan. <i>Cellulose</i> , 2015, 22, 1773-1787.	2.4	33
25	Tuning Fe ₃ O ₄ nanoparticle dispersion through pH in PVA/guar gum/electrospun membranes. <i>Carbohydrate Polymers</i> , 2015, 134, 775-783.	5.1	33
26	Modification of ulvans via periodate-chlorite oxidation: Chemical characterization and anticoagulant activity. <i>Carbohydrate Polymers</i> , 2018, 197, 631-640.	5.1	32
27	Adsorption behavior of oxidized galactomannans onto amino-terminated surfaces and their interaction with bovine serum albumin. <i>Carbohydrate Polymers</i> , 2002, 49, 167-175.	5.1	30
28	Hydrophilicity improvement of mercerized bacterial cellulose films by polyethylene glycol graft. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 599-605.	3.6	29
29	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.	5.1	26
30	Simple and effective purification approach to dissociate mixed water-insoluble α - and β -D-glucans and its application on the medicinal mushroom <i>Fomitopsis betulina</i> . <i>Carbohydrate Polymers</i> , 2018, 200, 353-360.	5.1	26
31	Chemical composition, antioxidant and antinociceptive properties of <i>Litchi chinensis</i> leaves. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 1796-1807.	1.2	25
32	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.	3.8	21
33	Films of chitosan and N-carboxymethylchitosan. Part II: effect of plasticizers on their physicochemical properties. <i>Polymer International</i> , 2006, 55, 970-977.	1.6	20
34	Effect of pH and protein particle shape on the stability of amylopectin-xyloglucan water-in-water emulsions. <i>Food Hydrocolloids</i> , 2020, 104, 105769.	5.6	20
35	TEMPO-mediated oxidation on galactomannan: Gal/Man ratio and chain flexibility dependence. <i>Carbohydrate Polymers</i> , 2016, 153, 371-378.	5.1	19
36	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.	0.6	18

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37	Transient and quasi-permanent networks in xyloglucan solutions. <i>Carbohydrate Polymers</i> , 2015, 129, 216-223.	5.1	18
38	Influence of the extraction time on macromolecular parameters of galactomannans. <i>Carbohydrate Polymers</i> , 2015, 116, 200-206.	5.1	18
39	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.	3.6	18
40	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.	3.6	18
41	Echogenicity enhancement by end-fluorinated polylactide perfluorohexane nanocapsules: Towards ultrasound-activable nanosystems. <i>Acta Biomaterialia</i> , 2017, 64, 313-322.	4.1	17
42	Physicochemical aspects of galactoxyloglucan from the seeds of <i>Hymenaea courbaril</i> and its tetraborate complex. <i>Carbohydrate Polymers</i> , 2003, 54, 287-295.	5.1	15
43	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.	1.2	15
44	Antioxidant activity and low cytotoxicity of extracts and isolated compounds from <i>Araucaria angustifolia</i> dead bark. <i>Redox Report</i> , 2010, 15, 234-242.	1.4	15
45	Sensing soluble uric acid by Naip1-Nlrp3 platform. <i>Cell Death and Disease</i> , 2021, 12, 158.	2.7	15
46	Rheological Characterization of a Xanthan-Galactomannan Hydrogel Loaded with Lipophilic Substances. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 2457-2467.	1.6	14
47	Modulation of Epidermal Growth Factor Release by Biopolymer-Coated Liposomes. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 2294-2301.	1.6	14
48	Stabilization of amylopectin-pullulan water in water emulsions by Interacting protein particles. <i>Food Hydrocolloids</i> , 2022, 124, 107320.	5.6	13
49	Nanocapsule of cationic liposomes obtained using <i>in situ</i> acrylic acid polymerization: Stability, surface charge and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 267-272.	2.5	12
50	Simultaneous <i>in situ</i> 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.	3.8	12
51	Polysaccharide depolymerization from TEMPO-catalysis: Effect of TEMPO concentration. <i>Carbohydrate Polymers</i> , 2017, 170, 140-147.	5.1	12
52	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.	1.3	12
53	Salt-induced thermal gelation of xyloglucan in aqueous media. <i>Carbohydrate Polymers</i> , 2019, 223, 115083.	5.1	12
54	K-shigaite-like layered double hydroxide particles as Pickering emulsifiers in oil/water emulsions. <i>Applied Clay Science</i> , 2020, 193, 105660.	2.6	12

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55	Ripe fruits of <i>Bromelia antiacantha</i> : investigations on the chemical and bioactivity profile. <i>Revista Brasileira De Farmacognosia</i> , 2009, 19, 358-365.	0.6	11
56	Development and Validation of a RP-HPLC-PDA Method for Determination of Curcuminoids in Microemulsions. <i>Chromatographia</i> , 2013, 76, 1041-1048.	0.7	11
57	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.	1.0	11
58	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.	5.1	11
59	Cytotoxic, Antitumour and Antimetastatic Activity of Two New Polyacetylenes Isolated from <i>ernonia scorpioides</i> (<i>am.</i>) Pers. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2013, 113, 307-315.	1.2	10
60	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.	2.6	10
61	Xyloglucan gelation induced by enzymatic degalactosylation; kinetics and the effect of the molar mass. <i>Carbohydrate Polymers</i> , 2017, 174, 517-523.	5.1	9
62	Effects of <i>Eugenia umbelliflora</i> O. Berg (Myrtaceae)-leaf extract on inflammation and hypersensitivity. <i>Journal of Ethnopharmacology</i> , 2019, 244, 112133.	2.0	9
63	Interaction of guar gum galactomannans with the anionic surfactant sodium lauryl ether sulphate. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 713-721.	3.6	9
64	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.	1.6	8
65	Development, characterization and antimicrobial activity of sodium dodecyl sulfate-polysaccharides capsules containing eugenol. <i>Carbohydrate Polymers</i> , 2020, 230, 115562.	5.1	8
66	Spherical aggregates obtained from N-carboxymethylation and acetylation of chitosan. <i>Colloid and Polymer Science</i> , 2008, 286, 1387-1394.	1.0	7
67	Seasonal influence and cytotoxicity of extracts, fractions and major compounds from <i>Allamanda schottii</i> . <i>Revista Brasileira De Farmacognosia</i> , 2014, 24, 545-552.	0.6	7
68	Comparison between the interactions of the cationic surfactant DODAB with xanthan and galactomannan. <i>Carbohydrate Polymers</i> , 2015, 115, 478-484.	5.1	7
69	Hepatoprotective effect of <i>Maytenus robusta</i> Reiss extract on CCl ₄ -induced hepatotoxicity in mice and HepG2 cells. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 86, 93-100.	1.3	7
70	Engineered biomarkers for leprosy diagnosis using labeled and label-free analysis. <i>Talanta</i> , 2018, 187, 165-171.	2.9	7
71	Real-time monitoring of the change in stiffness of single-strand xanthan gum induced by NaCl. <i>Food Hydrocolloids</i> , 2015, 44, 191-197.	5.6	6
72	Core-shell particles formed by β -lactoglobulin microgel coated with xyloglucan. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 357-361.	3.6	6

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73	Stability-Indicating LC-PDA Method for Determination of Idebenone in Nanoparticles Based on Chitosan and N-Carboxymethylchitosan. <i>Chromatographia</i> , 2009, 70, 1411-1415.	0.7	5
74	Oleic acid as a synergistic agent in the formation of kaolinite-mineral oil Pickering emulsions. <i>Applied Clay Science</i> , 2022, 216, 106378.	2.6	5
75	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.	0.3	4
76	Synthesis of N-benzyl-N-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.	1.3	4
77	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.	0.9	4
78	Time-dependent viscometry study of endoglucanase action on xyloglucan: A real-time approach. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 461-466.	3.6	4
79	DODAB-DOPE liposome surface coating using in-situ acrylic acid polymerization. <i>Journal of Molecular Liquids</i> , 2021, 330, 115689.	2.3	4
80	Rheological properties of low-density polyethylene filled with hydrophobic Co(Ni)-Al layered double hydroxides. <i>Polimeros</i> , 2019, 29, .	0.2	3
81	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.	0.2	2
82	Physicochemical and immunological characterization of chitosan-coated bacteriophage nanoparticles for in vivo mycotoxin modeling. <i>Carbohydrate Polymers</i> , 2018, 185, 63-72.	5.1	2
83	Impact of Polylactide Fluorinated End-Group Lengths and Their Dynamics on Perfluorohexane Microcapsule Morphology. <i>Macromolecules</i> , 2019, 52, 2589-2596.	2.2	2
84	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, 1508-1512.	2.0	1
85	Chitosan-coated microvesicles: Effect of polysaccharide-phospholipid affinity on decafluorobutane dissolution. <i>Carbohydrate Polymers</i> , 2016, 153, 169-175.	5.1	1
86	Alcoholmeter as a Simple and Accessible Way for Ethanol Determination in Alcohol-Based Hand Sanitizers. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	1
87	Rheological and microstructural characterisation of heat-induced whey protein isolate gels affected by the addition of caseinomacropeptide. <i>Journal of Dairy Research</i> , 2022, , 1-8.	0.7	0