Maria EugÃªnia Rabello Duarte

List of Publications by Year
in descending order

75 papers	3,094 citations	172386 29 h-index	161767 54 g-index
77 all docs	77 docs citations	77 times ranked	3502 citing authors

#	Article	IF	Citations
1	Methylcellulose, a Cellulose Derivative with Original Physical Properties and Extended Applications. Polymers, 2015, 7, 777-803.	2.0	345
2	Structural studies on fucoidans from the brown seaweed Sargassum stenophyllum. Carbohydrate Research, 2001, 333, 281-293.	1.1	266
3	The antiviral activity of sulfated polysaccharides against dengue virus is dependent on virus serotype and host cell. Antiviral Research, 2005, 66, 103-110.	1.9	236
4	Anti-herpes simplex virus activity of sulfated galactans from the red seaweeds Gymnogongrus griffithsiae and Cryptonemia crenulata. International Journal of Biological Macromolecules, 2004, 34, 63-71.	3.6	196
5	Chemical structure and antiviral activity of carrageenans from Meristiella gelidium against herpes simplex and dengue virus. Carbohydrate Polymers, 2006, 63, 459-465.	5.1	123
6	Chemical structure and antiviral activity of the sulfated heterorhamnan isolated from the green seaweed Gayralia oxysperma. Carbohydrate Research, 2008, 343, 3085-3095.	1.1	107
7	Effects of sulfated polysaccharide and alcoholic extracts from green seaweed Ulva fasciata on anthracnose severity and growth of common bean (Phaseolus vulgaris L.). Journal of Plant Diseases and Protection, 2009, 116, 263-270.	1.6	104
8	Inhibitory effect of sulfated galactans from the marine alga Bostrychia montagnei on herpes simplex virus replication in vitro. Phytomedicine, 2001, 8, 53-58.	2.3	94
9	The structure of the agaran sulfate from Acanthophora spicifera (Rhodomelaceae, Ceramiales) and its antiviral activity. Relation between structure and antiviral activity in agarans. Carbohydrate Research, 2004, 339, 335-347.	1.1	92
10	Brown algae overproduce cell wall polysaccharides as a protection mechanism against the heavy metal toxicity. Marine Pollution Bulletin, 2010, 60, 1482-1488.	2.3	92
11	NMR and rheological study of Aloe barbadensis partially acetylated glucomannan. Carbohydrate Polymers, 2013, 94, 511-519.	5.1	79
12	Selective sulfation of carrageenans and the influence of sulfate regiochemistry on anticoagulant properties. Carbohydrate Polymers, 2013, 91, 483-491.	5.1	66
13	Differential inhibition of dengue virus infection in mammalian and mosquito cells by iota-carrageenan. Journal of General Virology, 2011, 92, 1332-1342.	1.3	63
14	An Algal-Derived DL-Galactan Hybrid is an Efficient Preventing Agent for in vitro Dengue Virus Infection. Planta Medica, 2007, 73, 1464-1468.	0.7	54
15	Chemical structure of the complex pyruvylated and sulfated agaran from the red seaweed Palisada flagellifera (Ceramiales, Rhodophyta). Carbohydrate Research, 2012, 347, 83-94.	1.1	52
16	Sulfated and pyruvylated disaccharide alditols obtained from a red seaweed galactan: ESIMS and NMR approaches. Carbohydrate Research, 2002, 337, 2443-2453.	1.1	51
17	Alkali modification of carrageenans. Part V. The iota?nu hybrid carrageenan from and its cyclization to iota-carrageenan. Carbohydrate Polymers, 2004, 58, 455-460.	5.1	46
18	Effects of iota-carrageenan on the rheological properties of starches. Carbohydrate Polymers, 2006, 65, 49-57.	5.1	45

#	Article	IF	Citations
19	ESI-MS differential fragmentation of positional isomers of sulfated oligosaccharides derived from carrageenans and agarans. Journal of the American Society for Mass Spectrometry, 2010, 21, 1404-1416.	1.2	44
20	Sulfated heterorhamnans from the green seaweed Gayralia oxysperma: partial depolymerization, chemical structure and antitumor activity. Carbohydrate Polymers, 2015, 117, 476-485.	5.1	42
21	Complete 1H and 13C NMR assignment of digeneaside, a low-molecular-mass carbohydrate produced by red seaweeds. Carbohydrate Research, 2006, 341, 677-682.	1.1	38
22	Alkali modification of carrageenans. Part IV. Porphyrans as model compounds. Carbohydrate Polymers, 2000, 42, 301-305.	5.1	37
23	Dihydropyridine C-glycoconjugates by organocatalytic Hantzsch cyclocondensation. Stereoselective synthesis of Î±-threofuranose C-nucleoside enantiomers. Organic and Biomolecular Chemistry, 2009, 7, 1980.	1.5	37
24	Ulvans induce resistance against plant pathogenic fungi independently of their sulfation degree. Carbohydrate Polymers, 2015, 133, 384-390.	5.1	37
25	Effects of carboxyl group on the anticoagulant activity of oxidized carrageenans. Carbohydrate Polymers, 2019, 214, 286-293.	5.1	37
26	The structure of a galactan sulfate from the red seaweed Bostrychia montagnei. Carbohydrate Research, 2002, 337, 1137-1144.	1.1	36
27	Structure and anti-metapneumovirus activity of sulfated galactans from the red seaweed Cryptonemia seminervis. Carbohydrate Polymers, 2014, 101, 313-323.	5.1	34
28	Modification of ulvans via periodate-chlorite oxidation: Chemical characterization and anticoagulant activity. Carbohydrate Polymers, 2018, 197, 631-640.	5.1	32
29	Sulfated xylomannans isolated from red seaweeds Chondrophycus papillosus and C. flagelliferus (Ceramiales) from Brazil. Carbohydrate Research, 2007, 342, 2766-2775.	1.1	30
30	Positional isomers of sulfated oligosaccharides obtained from agarans and carrageenans: preparation and capillary electrophoresis separation. Carbohydrate Research, 2005, 340, 2123-2134.	1.1	29
31	The system of galactans from Cryptonemia crenulata (Halymeniaceae, Halymeniales) and the structure of two major fractions. Kinetic studies on the alkaline cyclization of the unusual diad G2Sâ†'D(L)6S. Carbohydrate Research, 2005, 340, 711-722.	1.1	27
32	Î²-d-(1â†'4), Î²-d-(1â†'3) â€˜mixed linkageâ€™ xylans from red seaweeds of the order Nemaliales and Palmariales. Carbohydrate Research, 2011, 346, 1023-1028.	1.1	25
33	Photodynamic effect of meso-(aryl)porphyrins and meso-(1-methyl-4-pyridinium)porphyrins on HaCaT keratinocytes. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 156-161.	1.0	25
34	Biomass production and harvesting of Desmodesmus subspicatus cultivated in flat plate photobioreactor using chitosan as flocculant agent. Journal of Applied Phycology, 2019, 31, 857-866.	1.5	24
35	Galactans from Cryptonemia species. Part II: Studies on the system of galactans of Cryptonemia seminervis (Halymeniales) and on the structure of major fractions. Carbohydrate Research, 2009, 344, 2364-2374.	1.1	23
36	Interfacial Properties of Methylcelluloses: The Influence of Molar Mass. Polymers, 2014, 6, 2961-2973.	2.0	23

#	Article	IF	Citations
37	Effects of different culture media on physiological features and laboratory scale production cost of Dunaliella salina. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00508.	2.1	22
38	Production of carbohydrate building blocks from red seaweed polysaccharides. Efficient conversion of galactans into C-glycosyl aldehydes. Organic and Biomolecular Chemistry, 2009, 7, 576-588.	1.5	20
39	Production of agaro- and carra-oligosaccharides by partial acid hydrolysis of galactans. Revista Brasileira De Farmacognosia, 2011, 21, 296-304.	0.6	20
40	In vitro photodynamic inactivation of conidia of the phytopathogenic fungus Colletotrichum graminicola with cationic porphyrins. Photochemical and Photobiological Sciences, 2016, 15, 673-681.	1.6	19
41	Polysaccharides from the red seaweed Bostrychia montagnei: chemical characterization. Journal of Applied Phycology, 1999, 11, 35-40.	1.5	18
42	Synthesis of porphyrin glycoconjugates bearing thiourea, thiocarbamate and carbamate connecting groups: Influence of the linker on chemical and photophysical properties. Dyes and Pigments, 2014, 107, 69-80.	2.0	18
43	Conformational analysis of ulvans from Ulva fasciata and their anticoagulant polycarboxylic derivatives. International Journal of Biological Macromolecules, 2020, 162, 599-608.	3.6	18
44	Plant growth biostimulant activity of the green microalga Desmodesmus subspicatus. Algal Research, 2021, 59, 102434.	2.4	18
45	Low-molecular-mass carbohydrates and soluble polysaccharides of green and red morphs of Gracilaria domingensis (Gracilariales, Rhodophyta). Botanica Marina, 2007, 50, 314-317.	0.6	17
46	Influence of Molar Mass and Concentration on the Thermogelation of Methylcelluloses. International Journal of Polymer Analysis and Characterization, 2015, 20, 110-118.	0.9	15
47	Matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry analysis of oligosaccharides and oligosaccharide alditols obtained by hydrolysis of agaroses and carrageenans, two important types of red seaweed polysaccharides. Carbohydrate Research, 2010, 345, 275-283.	1.1	14
48	Semisynthesis of Long-Chain Alkyl Ether Derivatives of Sulfated Oligosaccharides via Dibutylstannylene Acetal Intermediates. Journal of Organic Chemistry, 2007, 72, 9896-9904.	1.7	13
49	Synthesis of meso-tetraarylporphyrins using SeO2 as oxidant. Tetrahedron Letters, 2011, 52, 1441-1443.	0.7	13
50	Investigation of anti-inflammatory and anti-proliferative activities promoted by photoactivated cationic porphyrin. Photodiagnosis and Photodynamic Therapy, 2015, 12, 444-458.	1.3	13
51	Media effects on laboratory scale production costs of Haematococcus pluvialis biomass. Bioresource Technology Reports, 2019, 7, 100236.	1.5	13
52	Ulva intestinalis Extract Acts as Biostimulant and Modulates Metabolites and Hormone Balance in Basil (Ocimum basilicum L.) and Parsley (Petroselinum crispum L.). Plants, 2021, 10, 1391.	1.6	12
53	Protective Effect of the Sulfated Agaran Isolated from the Red Seaweed Laurencia aldingensis Against Toxic Effects of the Venom of the Snake, Lachesis muta. Marine Biotechnology, 2016, 18, 619-629.	1.1	10
54	Non-Cytotoxic Sulfated Heterorhamnan from Gayralia brasiliensis Green Seaweed Reduces Driver Features of Melanoma Metastatic Progression. Marine Biotechnology, 2020, 22, 194-206.	1.1	10

#	Article	IF	Citations
55	Homogeneous guluronic and mannuronic acid blocks in the alginate of the brown seaweed Laminaria brasiliensis. Phytochemistry, 1991, 30, 1707-1708.	1.4	9
56	Semi-synthesis of a 3-O-sulfated red seaweed galactan-derived disaccharide alditol. Carbohydrate Research, 2006, 341, 1753-1757.	1.1	9
57	Semi-synthesis of N-alkyl-kappa-carrageenan derivatives and evaluation of their antibacterial activity. Carbohydrate Research, 2021, 499, 108234.	1.1	9
58	Advances in microalgal cell wall polysaccharides: a review focused on structure, production, and biological application. Critical Reviews in Biotechnology, 2021, , 1-16.	5.1	9
59	Sulfated Galactan from Palisada flagellifera Inhibits Toxic Effects of Lachesis muta Snake Venom. Marine Drugs, 2015, 13, 3761-3775.	2.2	8
60	Rice vinasse treatment by immobilized Synechococcus pevalekii and its effect on Dunaliella salina cultivation. Bioprocess and Biosystems Engineering, 2021, 44, 1477-1490.	1.7	8
61	Synthesis of peracetylated C-1-deoxyalditol- and C-glycoside-dipyrranes via dithioacetal derivatives. Tetrahedron Letters, 2013, 54, 1137-1140.	0.7	7
62	Acid heteropolysaccharides with potent antileishmanial effects. International Journal of Biological Macromolecules, 2015, 81, 165-170.	3.6	7
63	Chemical structure and snake antivenom properties of sulfated agarans obtained from Laurencia dendroidea (Ceramiales, Rhodophyta). Carbohydrate Polymers, 2019, 218, 136-144.	5.1	7
64	Regioselective synthesis of long-chain ethers and their sulfates derived from methyl Î²-d-galactopyranoside and derivatives via dibutylstannylene acetal intermediates. Carbohydrate Research, 2005, 340, 2245-2250.	1.1	6
65	Synthesis of pyridinium salts from N-substituted dihydropyridines with BF3OEt2 in the absence of added oxidants. Tetrahedron Letters, 2015, 56, 2001-2004.	0.7	5
66	Aqueous semisynthesis of C-glycoside glycamines from agarose. Beilstein Journal of Organic Chemistry, 2017, 13, 1222-1229.	1.3	5
67	Potential Utilization of a Polysaccharide from the Marine Algae Gayralia oxysperma, as an Antivenom for Viperidae Snakebites. Marine Drugs, 2018, 16, 412.	2.2	5
68	Modified soybean meal polysaccharide with high adhesion capacity to Salmonella. International Journal of Biological Macromolecules, 2019, 139, 1074-1084.	3.6	5
69	Marine Microalgae Biomolecules and Their Adhesion Capacity to Salmonella enterica sv. Typhimurium. Applied Sciences (Switzerland), 2020, 10, 2239.	1.3	4
70	Synthesis of C6-amino agarose and evaluation of its antibacterial activity. Carbohydrate Research, 2021, 507, 108387.	1.1	4
71	Semi-synthesis of hybrid ulvan-kappa-carrabiose polysaccharides and evaluation of their cytotoxic and anticoagulant effects. Carbohydrate Polymers, 2021, 267, 118161.	5.1	4
72	Complexation of vanadium(V) oxyanions with hexopyranose- and mannopyranoseuronic acid-containing polysaccharides: stereochemical considerations. Carbohydrate Research, 2004, 339, 771-775.	1.1	3

#	Article	IF	Citations
73	Chemical structure of native and modified sulfated heterorhamnans from the green seaweed Gayralia brasiliensis and their cytotoxic effect on U87MG human glioma cells. International Journal of Biological Macromolecules, 2021, 187, 710-721.	3.6	3
74	Thermal stability and degradation of meso-tetraphenylporphyrins bearing nitrogen-containing substituents. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6755-6764.	2.0	1
75	Synthesis and photophysical evaluation of meso-phenyl-1,4-dihydropyridineand pyridine-porphyrin hybrids. Chemistry of Heterocyclic Compounds, 2021, 57, 1195-1203.	0.6	1