

Carmen Freire

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5420560/carmen-freire-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

231
papers

10,525
citations

57
h-index

89
g-index

243
ext. papers

12,108
ext. citations

6.4
avg, IF

6.49
L-index

#	Paper	IF	Citations
231	Biobased polyesters and other polymers from 2,5-furandicarboxylic acid: a tribute to furan excellency. <i>Polymer Chemistry</i> , 2015 , 6, 5961-5983	4.9	411
230	The quest for sustainable polyesters – Insights into the future. <i>Polymer Chemistry</i> , 2014 , 5, 3119-3141	4.9	361
229	A concise guide to active agents for active food packaging. <i>Trends in Food Science and Technology</i> , 2018 , 80, 212-222	15.3	187
228	Transparent chitosan films reinforced with a high content of nanofibrillated cellulose. <i>Carbohydrate Polymers</i> , 2010 , 81, 394-401	10.3	185
227	Novel transparent nanocomposite films based on chitosan and bacterial cellulose. <i>Green Chemistry</i> , 2009 , 11, 2023	10	184
226	Controlled heterogeneous modification of cellulose fibers with fatty acids: Effect of reaction conditions on the extent of esterification and fiber properties. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1093-1102	2.9	181
225	Bioinspired antimicrobial and biocompatible bacterial cellulose membranes obtained by surface functionalization with aminoalkyl groups. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3290-7	9.5	175
224	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2010 , 75, 39-47	8.3	163
223	New biocomposites based on thermoplastic starch and bacterial cellulose. <i>Composites Science and Technology</i> , 2009 , 69, 2163-2168	8.6	152
222	Electrostatic assembly of Ag nanoparticles onto nanofibrillated cellulose for antibacterial paper products. <i>Cellulose</i> , 2012 , 19, 1425-1436	5.5	150
221	Bacterial cellulose membranes as drug delivery systems: an in vivo skin compatibility study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 86, 332-6	5.7	139
220	Bacterial cellulose membranes applied in topical and transdermal delivery of lidocaine hydrochloride and ibuprofen: in vitro diffusion studies. <i>International Journal of Pharmaceutics</i> , 2012 , 435, 83-7	6.5	138
219	Pyrrolidinium-based polymeric ionic liquid materials: New perspectives for CO ₂ separation membranes. <i>Journal of Membrane Science</i> , 2013 , 428, 260-266	9.6	136
218	Utilization of residues from agro-forest industries in the production of high value bacterial cellulose. <i>Bioresource Technology</i> , 2011 , 102, 7354-60	11	131
217	Characterization of phenolic components in polar extracts of <i>Eucalyptus globulus</i> Labill. bark by high-performance liquid chromatography-mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 9386-93	5.7	128
216	Antibacterial activity of optically transparent nanocomposite films based on chitosan or its derivatives and silver nanoparticles. <i>Carbohydrate Research</i> , 2012 , 348, 77-83	2.9	123
215	Self-healing protective coatings with green chitosan based pre-layer reservoir of corrosion inhibitor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4805		119

214	Transparent bionanocomposites with improved properties prepared from acetylated bacterial cellulose and poly(lactic acid) through a simple approach. <i>Green Chemistry</i> , 2011 , 13, 419	10	117
213	<i>Gluconacetobacter sacchari</i> : An efficient bacterial cellulose cell-factory. <i>Carbohydrate Polymers</i> , 2011 , 86, 1417-1420	10.3	117
212	Production of bacterial cellulose by <i>Gluconacetobacter sacchari</i> using dry olive mill residue. <i>Biomass and Bioenergy</i> , 2013 , 55, 205-211	5.3	115
211	New copolyesters derived from terephthalic and 2,5-furandicarboxylic acids: A step forward in the development of biobased polyesters. <i>Polymer</i> , 2013 , 54, 513-519	3.9	112
210	Antibacterial paper based on composite coatings of nanofibrillated cellulose and ZnO. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 417, 111-119	5.1	112
209	Biocellulose membranes as supports for dermal release of lidocaine. <i>Biomacromolecules</i> , 2011 , 12, 4162-4169	6.9	110
208	Protein-based materials: from sources to innovative sustainable materials for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3715-3740	7.3	109
207	Chitosan-based self-healing protective coatings doped with cerium nitrate for corrosion protection of aluminum alloy 2024. <i>Progress in Organic Coatings</i> , 2012 , 75, 8-13	4.8	105
206	Bioactive chitosan/ellagic acid films with UV-light protection for active food packaging. <i>Food Hydrocolloids</i> , 2017 , 73, 120-128	10.6	100
205	Bacterial cellulose membranes as transdermal delivery systems for diclofenac: in vitro dissolution and permeation studies. <i>Carbohydrate Polymers</i> , 2014 , 106, 264-9	10.3	98
204	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2012 , 97, 142-149	8.3	98
203	Pullulan/nanofibrillated cellulose composite films with improved thermal and mechanical properties. <i>Composites Science and Technology</i> , 2012 , 72, 1556-1561	8.6	97
202	Enhanced Solubility of Lignin Monomeric Model Compounds and Technical Lignins in Aqueous Solutions of Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4056-4065	8.3	94
201	Bio-based polyurethane foams toward applications beyond thermal insulation. <i>Materials & Design</i> , 2015 , 76, 77-85		94
200	Phenolic composition and antioxidant activity of <i>Eucalyptus grandis</i> , <i>E. urograndis</i> (<i>E. grandis</i> ssp. <i>urophylla</i>) and <i>E. maidenii</i> bark extracts. <i>Industrial Crops and Products</i> , 2012 , 39, 120-127	5.9	91
199	Sustainable nanocomposite films based on bacterial cellulose and pullulan. <i>Cellulose</i> , 2012 , 19, 729-737	5.5	87
198	Antifungal activity of transparent nanocomposite thin films of pullulan and silver against <i>Aspergillus niger</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 143-8	6	86
197	Composites based on acylated cellulose fibers and low-density polyethylene: Effect of the fiber content, degree of substitution and fatty acid chain length on final properties. <i>Composites Science and Technology</i> , 2008 , 68, 3358-3364	8.6	83

196	Polymeric ionic liquid-based membranes: Influence of polycation variation on gas transport and CO ₂ selectivity properties. <i>Journal of Membrane Science</i> , 2015 , 486, 40-48	9.6	81
195	Pullulan-based nanocomposite films for functional food packaging: Exploiting lysozyme nanofibers as antibacterial and antioxidant reinforcing additives. <i>Food Hydrocolloids</i> , 2018 , 77, 921-930	10.6	81
194	CO ₂ separation applying ionic liquid mixtures: the effect of mixing different anions on gas permeation through supported ionic liquid membranes. <i>RSC Advances</i> , 2013 , 3, 12220	3.7	80
193	Novel bacterial cellulose/ acrylic resin nanocomposites. <i>Composites Science and Technology</i> , 2010 , 70, 1148-1153	8.6	80
192	Identification of New Hydroxy Fatty Acids and Ferulic Acid Esters in the Wood of Eucalyptus globulus. <i>Holzforschung</i> , 2002 , 56, 143-149	2	80
191	A New Generation of Furanic Copolyesters with Enhanced Degradability: Poly(ethylene 2,5-furandicarboxylate)-co-poly(lactic acid) Copolyesters. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 2175-2184	2.6	77
190	Lipophilic Extractives of the Inner and Outer Barks of Eucalyptus globulus. <i>Holzforschung</i> , 2002 , 56, 372-379		76
189	Novel pyrrolidinium-based polymeric ionic liquids with cyano counter-anions: High performance membrane materials for post-combustion CO ₂ separation. <i>Journal of Membrane Science</i> , 2015 , 483, 155-165	9.6	72
188	Preparation and characterization of bacterial cellulose membranes with tailored surface and barrier properties. <i>Cellulose</i> , 2010 , 17, 1203-1211	5.5	72
187	Novel materials based on chitosan and cellulose. <i>Polymer International</i> , 2011 , 60, 875-882	3.3	69
186	Eucalyptus globulus biomass residues from pulping industry as a source of high value triterpenic compounds. <i>Industrial Crops and Products</i> , 2010 , 31, 65-70	5.9	68
185	Nanostructured composites obtained by ATRP sleeving of bacterial cellulose nanofibers with acrylate polymers. <i>Biomacromolecules</i> , 2013 , 14, 2063-73	6.9	67
184	Nanostructured bacterial cellulose-poly(4-styrene sulfonic acid) composite membranes with high storage modulus and protonic conductivity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7864-75	9.5	65
183	Polymeric ionic liquid membranes containing ILAg ⁺ for ethylene/ethane separation via olefin-facilitated transport. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5631	13	65
182	High value triterpenic compounds from the outer barks of several Eucalyptus species cultivated in Brazil and in Portugal. <i>Industrial Crops and Products</i> , 2011 , 33, 158-164	5.9	65
181	Playing with ionic liquid mixtures to design engineered CO ₂ separation membranes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17172-82	3.6	62
180	Cholinium-based supported ionic liquid membranes: a sustainable route for carbon dioxide separation. <i>ChemSusChem</i> , 2014 , 7, 110-3	8.3	62
179	Chlorophyta and Rhodophyta macroalgae: a source of health promoting phytochemicals. <i>Food Chemistry</i> , 2015 , 183, 122-8	8.5	61

178	Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. <i>Green Chemistry</i> , 2011 , 13, 2464	10	61
177	Latest Advances on Bacterial Cellulose-Based Materials for Wound Healing, Delivery Systems, and Tissue Engineering. <i>Biotechnology Journal</i> , 2019 , 14, e1900059	5.6	60
176	Lipophilic extracts of <i>Cynara cardunculus</i> L. var. <i>altilis</i> (DC): a source of valuable bioactive terpenic compounds. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 8420-9	5.7	60
175	Do bacterial cellulose membranes have potential in drug-delivery systems?. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 1113-24	8	58
174	Ultra-high performance liquid chromatography coupled to mass spectrometry applied to the identification of valuable phenolic compounds from <i>Eucalyptus</i> wood. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013 , 938, 65-74	3.2	57
173	Polymeric ionic liquids with mixtures of counter-anions: a new straightforward strategy for designing pyrrolidinium-based CO ₂ separation membranes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10403	13	56
172	Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. <i>Journal of Colloid and Interface Science</i> , 2010 , 344, 588-95	9.3	56
171	What is the real value of chitosan's surface energy?. <i>Biomacromolecules</i> , 2008 , 9, 610-4	6.9	56
170	The role of nanocellulose fibers, starch and chitosan on multipolysaccharide based films. <i>Cellulose</i> , 2013 , 20, 1807-1818	5.5	54
169	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. <i>ChemSusChem</i> , 2018 , 11, 753-762	8.3	53
168	Isolation of suberin from birch outer bark and cork using ionic liquids: A new source of macromonomers. <i>Industrial Crops and Products</i> , 2013 , 44, 520-527	5.9	53
167	Highly hydrophobic biopolymers prepared by the surface pentafluorobenzoylation of cellulose substrates. <i>Biomacromolecules</i> , 2007 , 8, 1347-52	6.9	53
166	Topical caffeine delivery using biocellulose membranes: a potential innovative system for cellulite treatment. <i>Cellulose</i> , 2014 , 21, 665-674	5.5	51
165	Chitosan as a Smart Coating for Controlled Release of Corrosion Inhibitor 2-Mercaptobenzothiazole. <i>ECS Electrochemistry Letters</i> , 2013 , 2, C19-C22		51
164	Surface characterization by XPS, contact angle measurements and ToF-SIMS of cellulose fibers partially esterified with fatty acids. <i>Journal of Colloid and Interface Science</i> , 2006 , 301, 205-9	9.3	51
163	Phenolic composition and antioxidant activity of different morphological parts of <i>Cynara cardunculus</i> L. var. <i>altilis</i> (DC). <i>Industrial Crops and Products</i> , 2014 , 61, 460-471	5.9	50
162	Synthesis and characterization of new CaCO ₃ /cellulose nanocomposites prepared by controlled hydrolysis of dimethylcarbonate. <i>Carbohydrate Polymers</i> , 2010 , 79, 1150-1156	10.3	50
161	Nafion [®] and nanocellulose: A partnership for greener polymer electrolyte membranes. <i>Industrial Crops and Products</i> , 2016 , 93, 212-218	5.9	49

160	Antimicrobial bacterial cellulose nanocomposites prepared by in situ polymerization of 2-aminoethyl methacrylate. <i>Carbohydrate Polymers</i> , 2015 , 123, 443-53	10.3	49
159	New unsaturated copolyesters based on 2,5-furandicarboxylic acid and their crosslinked derivatives. <i>Polymer Chemistry</i> , 2016 , 7, 1049-1058	4.9	48
158	An Efficient Method for Determination of the Degree of Substitution of Cellulose Esters of Long Chain Aliphatic Acids. <i>Cellulose</i> , 2005 , 12, 449-458	5.5	47
157	Poly(N-methacryloyl glycine)/nanocellulose composites as pH-sensitive systems for controlled release of diclofenac. <i>Carbohydrate Polymers</i> , 2017 , 169, 357-365	10.3	46
156	Functionalized chitosan-based coatings for active corrosion protection. <i>Surface and Coatings Technology</i> , 2013 , 226, 51-59	4.4	46
155	Deep eutectic solvents comprising active pharmaceutical ingredients in the development of drug delivery systems. <i>Expert Opinion on Drug Delivery</i> , 2019 , 16, 497-506	8	45
154	Recent Developments in the Functionalization of Betulinic Acid and Its Natural Analogues: A Route to New Bioactive Compounds. <i>Molecules</i> , 2019 , 24,	4.8	45
153	Antimicrobial pullulan derivative prepared by grafting with 3-aminopropyltrimethoxysilane: Characterization and ability to form transparent films. <i>Food Hydrocolloids</i> , 2014 , 35, 247-252	10.6	45
152	Suberin isolation from cork using ionic liquids: characterisation of ensuing products. <i>New Journal of Chemistry</i> , 2012 , 36, 2014	3.6	45
151	Nanocellulose-based materials as components of polymer electrolyte fuel cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20045-20074	13	44
150	Ecopolyol Production from Industrial Cork Powder via Acid Liquefaction Using Polyhydric Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 846-854	8.3	44
149	Lipophilic phytochemicals from banana fruits of several <i>Musa</i> species. <i>Food Chemistry</i> , 2014 , 162, 247-252.	5	44
148	Bioactive Triterpenic Acids: From Agroforestry Biomass Residues to Promising Therapeutic Tools. <i>Mini-Reviews in Organic Chemistry</i> , 2014 , 11, 382-399	1.7	43
147	Fluorescent Bioactive Corrole Grafted-Chitosan Films. <i>Biomacromolecules</i> , 2016 , 17, 1395-403	6.9	42
146	Supercritical fluid extraction of <i>Eucalyptus globulus</i> bark-A promising approach for triterpenoid production. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 7648-62	6.3	42
145	Effect of oxygen, ozone and hydrogen peroxide bleaching stages on the contents and composition of extractives of <i>Eucalyptus globulus</i> kraft pulps. <i>Bioresource Technology</i> , 2006 , 97, 420-8	11	42
144	Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. <i>Green Chemistry</i> , 2016 , 18, 4582-4604	10	42
143	<i>Miscanthus x giganteus</i> extractives: a source of valuable phenolic compounds and sterols. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 3626-31	5.7	41

142	Anti-inflammatory and antioxidant nanostructured cellulose membranes loaded with phenolic-based ionic liquids for cutaneous application. <i>Carbohydrate Polymers</i> , 2019 , 206, 187-197	10.3	41
141	Antimicrobial and Conductive Nanocellulose-Based Films for Active and Intelligent Food Packaging. <i>Nanomaterials</i> , 2019 , 9,	5.4	40
140	Aqueous solutions of surface-active ionic liquids: remarkable alternative solvents to improve the solubility of triterpenic acids and their extraction from biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7344-7351	8.3	40
139	The Role of Ionic Liquids in the Pharmaceutical Field: An Overview of Relevant Applications. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	39
138	Enhanced Conversion of Xylan into Furfural using Acidic Deep Eutectic Solvents with Dual Solvent and Catalyst Behavior. <i>ChemSusChem</i> , 2020 , 13, 784-790	8.3	39
137	Characterization and evaluation of the hydrolytic stability of trifluoroacetylated cellulose fibers. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 360-6	9.3	38
136	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. <i>Molecules</i> , 2020 , 25,	4.8	38
135	Antioxidant and antimicrobial films based on brewers spent grain arabinoxylans, nanocellulose and feruloylated compounds for active packaging. <i>Food Hydrocolloids</i> , 2020 , 108, 105836	10.6	37
134	Lipophilic extracts from banana fruit residues: a source of valuable phytosterols. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 9520-4	5.7	37
133	Bioactive transparent films based on polysaccharides and cholinium carboxylate ionic liquids. <i>Green Chemistry</i> , 2015 , 17, 4291-4299	10	36
132	Chemical composition of the epicuticular wax from the fruits of <i>Eucalyptus globulus</i> . <i>Phytochemical Analysis</i> , 2005 , 16, 364-9	3.4	36
131	Protonic conductivity and fuel cell tests of nanocomposite membranes based on bacterial cellulose. <i>Electrochimica Acta</i> , 2017 , 233, 52-61	6.7	35
130	Rigid polyurethane foams derived from cork liquefied at atmospheric pressure. <i>Polymer International</i> , 2015 , 64, 250-257	3.3	35
129	Novel sustainable composites prepared from cork residues and biopolymers. <i>Biomass and Bioenergy</i> , 2013 , 55, 148-155	5.3	35
128	Control of <i>Listeria innocua</i> biofilms by biocompatible photodynamic antifouling chitosan based materials. <i>Dyes and Pigments</i> , 2017 , 137, 265-276	4.6	35
127	The bulk oxypropylation of chitin and chitosan and the characterization of the ensuing polyols. <i>Green Chemistry</i> , 2008 , 10, 93-97	10	35
126	Unveiling the dual role of the cholinium hexanoate ionic liquid as solvent and catalyst in suberin depolymerisation. <i>RSC Advances</i> , 2014 , 4, 2993-3002	3.7	34
125	Preparation and evaluation of the barrier properties of cellophane membranes modified with fatty acids. <i>Carbohydrate Polymers</i> , 2011 , 83, 836-842	10.3	34

124	Ex situ reconstitution of the plant biopolyester suberin as a film. <i>Biomacromolecules</i> , 2014 , 15, 1806-13	6.9	33
123	Production of Coated Papers with Improved Properties by Using a Water-Soluble Chitosan Derivative. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6432-6438	3.9	33
122	Design of Nonsteroidal Anti-Inflammatory Drug-Based Ionic Liquids with Improved Water Solubility and Drug Delivery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14126-14134	8.3	32
121	Biocompatible bacterial cellulose-poly(2-hydroxyethyl methacrylate) nanocomposite films. <i>BioMed Research International</i> , 2013 , 2013, 698141	3	32
120	Carbohydrate-derived chlorinated compounds in ECF bleaching of hardwood pulps: formation, degradation, and contribution to AOX in a bleached kraft pulp mill. <i>Environmental Science & Technology</i> , 2003 , 37, 811-4	10.3	32
119	Reversible hydrophobization and lipophobization of cellulose fibers via trifluoroacetylation. <i>Journal of Colloid and Interface Science</i> , 2006 , 301, 333-6	9.3	31
118	Lipophilic extractives from the bark of <i>Eucalyptus grandis</i> x <i>globulus</i> , a rich source of methyl morolate: Selective extraction with supercritical CO ₂ . <i>Industrial Crops and Products</i> , 2013 , 43, 340-348	5.9	30
117	Exploiting poly(ionic liquids) and nanocellulose for the development of bio-based anion-exchange membranes. <i>Biomass and Bioenergy</i> , 2017 , 100, 116-125	5.3	29
116	Bacterial cellulose as carrier for immobilization of laccase: Optimization and characterization. <i>Engineering in Life Sciences</i> , 2014 , 14, 500-508	3.4	29
115	The ripe pulp of <i>Mangifera indica</i> L.: A rich source of phytosterols and other lipophilic phytochemicals. <i>Food Research International</i> , 2013 , 54, 1535-1540	7	29
114	Preparation and characterization of novel highly omniphobic cellulose fibers organic/inorganic hybrid materials. <i>Carbohydrate Polymers</i> , 2010 , 80, 1048-1056	10.3	29
113	Lipophilic extractives from different morphological parts of banana plant Dwarf Cavendish. <i>Industrial Crops and Products</i> , 2006 , 23, 201-211	5.9	29
112	Zwitterionic Nanocellulose-Based Membranes for Organic Dye Removal. <i>Materials</i> , 2019 , 12,	3.5	28
111	Spent coffee grounds as a renewable source for copolyols production. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1480-1488	3.5	28
110	In situ synthesis of bacterial cellulose/polycaprolactone blends for hot pressing nanocomposite films production. <i>Carbohydrate Polymers</i> , 2015 , 132, 400-8	10.3	28
109	Novel cellulose-based composites based on nanofibrillated plant and bacterial cellulose: recent advances at the University of Aveiro – a review. <i>Holzforschung</i> , 2013 , 67, 603-612	2	27
108	New Materials Based on Cationic Porphyrins Conjugated to Chitosan or Titanium Dioxide: Synthesis, Characterization and Antimicrobial Efficacy. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	26
107	Bacterial nanocellulose membranes loaded with vitamin B-based ionic liquids for dermal care applications. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112547	6	26

106	Poly(bis[2-(methacryloyloxy)ethyl] phosphate)/Bacterial Cellulose Nanocomposites: Preparation, Characterization and Application as Polymer Electrolyte Membranes. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1145	2.6	26
105	Unveiling the chemistry behind the green synthesis of metal nanoparticles. <i>ChemSusChem</i> , 2014 , 7, 27048131	1.1	26
104	High valuable compounds from the unripe peel of several Musa species cultivated in Madeira Island (Portugal). <i>Industrial Crops and Products</i> , 2013 , 42, 507-512	5.9	26
103	Conductive polysaccharides-based proton-exchange membranes for fuel cell applications: The case of bacterial cellulose and fucoïdan. <i>Carbohydrate Polymers</i> , 2020 , 230, 115604	10.3	25
102	Production of lysozyme nanofibers using deep eutectic solvent aqueous solutions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 147, 36-44	6	25
101	Bacterial nanocellulose-hyaluronic acid microneedle patches for skin applications: In vitro and in vivo evaluation. <i>Materials Science and Engineering C</i> , 2021 , 118, 111350	8.3	25
100	Pullulan microneedle patches for the efficient transdermal administration of insulin envisioning diabetes treatment. <i>Carbohydrate Polymers</i> , 2020 , 241, 116314	10.3	24
99	Deep Eutectic Solvents as Efficient Media for the Extraction and Recovery of Cynaropicrin from Cynara cardunculus L. Leaves. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	24
98	Antiproliferative Effects of Cynara cardunculus L. var. altilis (DC) Lipophilic Extracts. <i>International Journal of Molecular Sciences</i> , 2016 , 18,	6.3	24
97	Steryl glucosides from banana plant Musa acuminata Colla var cavendish. <i>Industrial Crops and Products</i> , 2005 , 22, 187-192	5.9	24
96	Lipophilic Extractives in Eucalyptus globulus Kraft Pulps. Behavior during ECF Bleaching. <i>Journal of Wood Chemistry and Technology</i> , 2005 , 25, 67-80	2	24
95	Comparative study of lipophilic extractives of hardwoods and corresponding ECF bleached kraft pulps. <i>BioResources</i> , 2006 , 1, 3-17	1.3	24
94	Demystifying the morphology and size control on the biosynthesis of gold nanoparticles using Eucalyptus globulus bark extract. <i>Industrial Crops and Products</i> , 2017 , 105, 83-92	5.9	23
93	Nanocellulose-based antifungal nanocomposites against the polymorphic fungus Candida albicans. <i>Carbohydrate Polymers</i> , 2019 , 217, 207-216	10.3	23
92	A study of the distribution of chitosan onto and within a paper sheet using a fluorescent chitosan derivative. <i>Carbohydrate Polymers</i> , 2009 , 78, 760-766	10.3	23
91	Bi-phobic cellulose fibers derivatives via surface trifluoropropanoylation. <i>Langmuir</i> , 2007 , 23, 10801-6	4	23
90	A compendium of current developments on polysaccharide and protein-based microneedles. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 704-728	7.9	22
89	Nanocellulose/poly(methacryloyloxyethyl phosphate) composites as proton separator materials. <i>Cellulose</i> , 2016 , 23, 3677-3689	5.5	22

88	Thermosetting AESO-bacterial cellulose nanocomposite foams with tailored mechanical properties obtained by Pickering emulsion templating. <i>Polymer</i> , 2017 , 118, 127-134	3.9	21
87	Topical Drug Delivery Systems Based on Bacterial Nanocellulose: Accelerated Stability Testing. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	21
86	Secondary metabolites from Eucalyptus grandis wood cultivated in Portugal, Brazil and South Africa. <i>Industrial Crops and Products</i> , 2017 , 95, 357-364	5.9	21
85	Multilayered materials based on biopolymers as drug delivery systems. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 189-200	8	21
84	Identification of delta7 phytosterols and phytosteryl glucosides in the wood and bark of several Acacia species. <i>Lipids</i> , 2005 , 40, 317-22	1.6	21
83	Biobased films of nanocellulose and mango leaf extract for active food packaging: Supercritical impregnation versus solvent casting. <i>Food Hydrocolloids</i> , 2021 , 117, 106709	10.6	21
82	Self-standing chitosan films as dielectrics in organic thin-film transistors. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 960-965	3.4	20
81	Multifunctional nanofibrous patches composed of nanocellulose and lysozyme nanofibers for cutaneous wound healing. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1198-1210	7.9	20
80	Screening of lipophilic and phenolic extractives from different morphological parts of Halimione portulacoides. <i>Industrial Crops and Products</i> , 2014 , 52, 373-379	5.9	19
79	Bioactive Phytochemicals from Wild Arbutus unedo L. Berries from Different Locations in Portugal: Quantification of Lipophilic Components. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 14194-2093	6.3	19
78	An overview of luminescent bio-based composites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a.	2.9	19
77	Preparation and characterization of novel biodegradable composites based on acylated cellulose fibers and poly(ethylene sebacate). <i>Composites Science and Technology</i> , 2011 , 71, 1908-1913	8.6	19
76	NEW LIPOPHILIC COMPONENTS OF PITCH DEPOSITS FROM AN EUCALYPTUS GLOBULUS ECF BLEACHED KRAFT PULP MILL. <i>Journal of Wood Chemistry and Technology</i> , 2002 , 22, 55-66	2	19
75	Bacterial Nanocellulose toward Green Cosmetics: Recent Progresses and Challenges. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	19
74	Aqueous solutions of deep eutectic systems as reaction media for the saccharification and fermentation of hardwood xylan into xylitol. <i>Bioresource Technology</i> , 2020 , 311, 123524	11	18
73	Bio-based synthesis of oxidation resistant copper nanowires using an aqueous plant extract. <i>Journal of Cleaner Production</i> , 2019 , 221, 122-131	10.3	18
72	Effect of unrefined crude glycerol composition on the properties of polyurethane foams. <i>Journal of Cellular Plastics</i> , 2018 , 54, 633-649	1.5	17
71	Profiling of lipophilic and phenolic phytochemicals of four cultivars from cherimoya (Annona cherimola Mill.). <i>Food Chemistry</i> , 2016 , 211, 845-52	8.5	17

70	Synthesis and characterization of photoactive porphyrin and poly(2-hydroxyethyl methacrylate) based materials with bactericidal properties. <i>Applied Materials Today</i> , 2019 , 16, 332-341	6.6	17
69	Bulk and surface composition of ECF bleached hardwood kraft pulp fibres. <i>Nordic Pulp and Paper Research Journal</i> , 2004 , 19, 513-520	1.1	17
68	Dual nanofibrillar-based bio-sorbent films composed of nanocellulose and lysozyme nanofibrils for mercury removal from spring waters. <i>Carbohydrate Polymers</i> , 2020 , 238, 116210	10.3	16
67	Hydrogen Bond Dynamics of Cellulose through Inelastic Neutron Scattering Spectroscopy. <i>Biomacromolecules</i> , 2018 , 19, 1305-1313	6.9	16
66	Demonstration of long-chain n-alkyl caffeates and delta7-steryl glucosides in the bark of Acacia species by gas chromatography-mass spectrometry. <i>Phytochemical Analysis</i> , 2007 , 18, 151-6	3.4	16
65	Physicochemical surface properties of bacterial cellulose/polymethacrylate nanocomposites: an approach by inverse gas chromatography. <i>Carbohydrate Polymers</i> , 2019 , 206, 86-93	10.3	16
64	Silylation of bacterial cellulose to design membranes with intrinsic anti-bacterial properties. <i>Carbohydrate Polymers</i> , 2019 , 220, 71-78	10.3	15
63	Oxidized Derivatives of Lipophilic Extractives Formed during Hardwood Kraft Pulp Bleaching. <i>Holzforschung</i> , 2003 , 57, 503-512	2	15
62	Valorisation of chestnut spiny burs and roasted hazelnut skins extracts as bioactive additives for packaging films. <i>Industrial Crops and Products</i> , 2020 , 151, 112491	5.9	14
61	Extraction and recovery processes for cynaropicrin from <i>Cynara cardunculus</i> L. using aqueous solutions of surface-active ionic liquids. <i>Biophysical Reviews</i> , 2018 , 10, 915-925	3.7	14
60	Chemical composition of the essential oil distilled from the fruits of <i>Eucalyptus globulus</i> grown in Portugal. <i>Flavour and Fragrance Journal</i> , 2005 , 20, 407-409	2.5	14
59	The Health-Promoting Potential of spp. Bark Polar Extracts: Key Insights on Phenolic Composition and In Vitro Bioactivity and Biocompatibility. <i>Antioxidants</i> , 2019 , 8,	7.1	14
58	Exploiting poly(ϵ -caprolactone) and cellulose nanofibrils modified with latex nanoparticles for the development of biodegradable nanocomposites. <i>Polymer Composites</i> , 2019 , 40, 1342-1353	3	14
57	NMR Metabolomics Reveals Metabolism-Mediated Protective Effects in Liver (HepG2) Cells Exposed to Subtoxic Levels of Silver Nanoparticles. <i>Journal of Proteome Research</i> , 2018 , 17, 1636-1646	5.6	13
56	Furanoate-Based Nanocomposites: A Case Study Using Poly(Butylene 2,5-Furanoate) and Poly(Butylene 2,5-Furanoate)-(Butylene Diglycolate) and Bacterial Cellulose. <i>Polymers</i> , 2018 , 10,	4.5	13
55	Luminescent Transparent Composite Films Based on Lanthanopolyoxometalates and Filmogenic Polysaccharides. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1890-1896	2.3	13
54	<i>Miscanthus x giganteus</i> bark organosolv fractionation: fate of lipophilic components and formation of valuable phenolic byproducts. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 8279-85	5.7	13
53	Extraction of High Value Triterpenic Acids from Biomass Using Hydrophobic Deep Eutectic Solvents. <i>Molecules</i> , 2020 , 25,	4.8	13

52	Poly(4-styrene sulfonic acid)/bacterial cellulose membranes: Electrochemical performance in a single-chamber microbial fuel cell. <i>Bioresource Technology Reports</i> , 2020 , 9, 100376	4.1	13
51	Eucalyptus spp. outer bark extracts inhibit <i>Helicobacter pylori</i> growth: in vitro studies. <i>Industrial Crops and Products</i> , 2017 , 105, 207-214	5.9	12
50	Tuning lysozyme nanofibers dimensions using deep eutectic solvents for improved reinforcement ability. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 518-527	7.9	12
49	Swellable Gelatin Methacryloyl Microneedles for Extraction of Interstitial Skin Fluid toward Minimally Invasive Monitoring of Urea. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000195	5.5	12
48	Recent trends on the development of systems for cancer diagnosis and treatment by microfluidic technology. <i>Applied Materials Today</i> , 2020 , 18, 100450	6.6	12
47	Highly Electroconductive Nanopapers Based on Nanocellulose and Copper Nanowires: A New Generation of Flexible and Sustainable Electrical Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34208-34216	9.5	11
46	Ionic liquids as promoters of fast lysozyme fibrillation. <i>Journal of Molecular Liquids</i> , 2018 , 272, 456-467	6	11
45	Microwave assisted extraction of betulin from birch outer bark. <i>RSC Advances</i> , 2013 , 3, 21285	3.7	11
44	Wood delignification with aqueous solutions of deep eutectic solvents. <i>Industrial Crops and Products</i> , 2021 , 160, 113128	5.9	11
43	Poly(glycidyl methacrylate)/bacterial cellulose nanocomposites: Preparation, characterization and post-modification. <i>International Journal of Biological Macromolecules</i> , 2019 , 127, 618-627	7.9	10
42	Valorisation of bark lipophilic fractions from three Portuguese <i>Salix</i> species: A systematic study of the chemical composition and inhibitory activity on <i>Escherichia coli</i> . <i>Industrial Crops and Products</i> , 2019 , 132, 245-252	5.9	10
41	Hydrotropy and Cosolvency in Lignin Solubilization with Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	9
40	Multifunctional hybrid structures made of open-cell aluminum foam impregnated with cellulose/graphene nanocomposites. <i>Carbohydrate Polymers</i> , 2020 , 238, 116197	10.3	9
39	One-pot synthesis of biofoams from castor oil and cellulose microfibers for energy absorption impact materials. <i>Cellulose</i> , 2014 , 21, 1723-1733	5.5	9
38	New glucosides from <i>Eucalyptus globulus</i> wood, bark and kraft pulps. <i>Holzforschung</i> , 2004 , 58, 501-503	2	9
37	Unravelling the distinct crystallinity and thermal properties of suberin compounds from <i>Quercus suber</i> and <i>Betula pendula</i> outer barks. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 686-694	7.9	9
36	Nanocellulose-Based Patches Loaded with Hyaluronic Acid and Diclofenac towards Aphthous Stomatitis Treatment. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
35	Ultra-low noise PEDOT:PSS electrodes on bacterial cellulose: A sensor to access bioelectrical signals in non-electrogenic cells. <i>Organic Electronics</i> , 2020 , 85, 105882	3.5	7

34	Easily Degradable Chlorinated Compounds Derived from Glucuronoxylan in Filtrates from Chlorine Dioxide Bleaching of Eucalyptus globulus Kraft Pulp. <i>Holzforschung</i> , 2003 , 57, 81-87	2	7
33	Grafting Poly(Methyl Methacrylate) (PMMA) from Cork via Atom Transfer Radical Polymerization (ATRP) towards Higher Quality of Three-Dimensional (3D) Printed PMMA/Cork-PMMA Materials. <i>Polymers</i> , 2020 , 12,	4.5	7
32	Antibacterial Multi-Layered Nanocellulose-Based Patches Loaded with Dexpanthenol for Wound Healing Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
31	Biosynthesis and bioactivity of Cynara cardunculus L. guaianolides and hydroxycinnamic acids: a genomic, biochemical and health-promoting perspective. <i>Phytochemistry Reviews</i> , 2019 , 18, 495-526	7.7	6
30	Understanding the Structure and Dynamics of Nanocellulose-Based Composites with Neutral and ionic Poly(methacrylate) Derivatives using Inelastic Neutron Scattering and DFT Calculations. <i>Molecules</i> , 2020 , 25,	4.8	6
29	Cellulose/iron oxide hybrids as multifunctional pigments in thermoplastic starch based materials. <i>Cellulose</i> , 2013 , 20, 861-871	5.5	6
28	Ionic Liquids in Drug Delivery. <i>Encyclopedia</i> , 2021 , 1, 324-339		6
27	Chemical Composition of Lipophilic Bark Extracts from Pinus pinaster and Pinus pinea Cultivated in Portugal. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2575	2.6	6
26	Cellulose Nanocrystals/Chitosan-Based Nanosystems: Synthesis, Characterization, and Cellular Uptake on Breast Cancer Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
25	Antimicrobial Properties and Therapeutic Applications of Silver Nanoparticles and Nanocomposites 2017 , 223-259		5
24	Natural Polymers-Based Materials: A Contribution to a Greener Future.. <i>Molecules</i> , 2021 , 27,	4.8	5
23	Spherical Cellulose Micro and Nanoparticles: A Review of Recent Developments and Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
22	Recent Advances on the Development of Antibacterial Polysaccharide-Based Materials 2015 , 1751-1803		5
21	Flexible Nanocellulose/Lignosulfonates Ion-Conducting Separators for Polymer Electrolyte Fuel Cells. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
20	Timesaving microwave assisted synthesis of insulin amyloid fibrils with enhanced nanofiber aspect ratio. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 225-231	7.9	5
19	Unveiling Modifications of Biomass Polysaccharides during Thermal Treatment in Cholinium Chloride : Lactic Acid Deep Eutectic Solvent. <i>ChemSusChem</i> , 2021 , 14, 686-698	8.3	5
18	Deep Eutectic Solvents and Pharmaceuticals. <i>Encyclopedia</i> , 2021 , 1, 942-963		5
17	One-Minute Synthesis of Size-Controlled Fucoïdan-Gold Nanosystems: Antitumoral Activity and Dark Field Imaging. <i>Materials</i> , 2020 , 13,	3.5	4

16	Bio-based sustainable films from the Algerian <i>Opuntia ficus-indica</i> cladodes powder: Effect of plasticizer content. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50450	2.9	4
15	Effect of the Micronization of Pulp Fibers on the Properties of Green Composites. <i>Molecules</i> , 2021 , 26,	4.8	4
14	Polyethylene Terephthalate: Copolyesters, Composites, and Renewable Alternatives 2015 , 113-141		3
13	Bacterial Cellulose-Based Nanocomposites: Roadmap for Innovative Materials 2014 , 17-64		3
12	Resistive switching of silicon-silver thin film devices in flexible substrates. <i>Nanotechnology</i> , 2020 , 31, 135702	3.4	3
11	Functionalization of Betulinic Acid with Polyphenolic Fragments for the Development of New Amphiphilic Antioxidants. <i>Antioxidants</i> , 2021 , 10,	7.1	3
10	1 Development and applications of cellulose nanofibres based polymer nanocomposites 2017 , 1-65		2
9	Boosting Antibiotics Performance by New Formulations with Deep Eutectic Solvents.. <i>International Journal of Pharmaceutics</i> , 2022 , 616, 121566	6.5	2
8	Metabolic Effects of a Bark Lipophilic Extract on Triple Negative Breast Cancer and Nontumor Breast Epithelial Cells. <i>Journal of Proteome Research</i> , 2021 , 20, 565-575	5.6	2
7	Recent Advances on the Development of Antibacterial Polysaccharide-Based Materials 2014 , 1-46		1
6	Polysaccharide-based films of cactus mucilage and agar with antioxidant properties for active food packaging. <i>Polymer Bulletin</i> ,1	2.4	1
5	Improved Production of 5-Hydroxymethylfurfural in Acidic Deep Eutectic Solvents Using Microwave-Assisted Reactions.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
4	Integrated Production and Separation of Furfural Using an Acidic-Based Aqueous Biphasic System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12205-12212	8.3	1
3	Active Packaging 2021 , 315-341		1
2	Gelatin-Lysozyme Nanofibrils Electrospun Patches with Improved Mechanical, Antioxidant and Bioresorbability Properties for Myocardial Regeneration Applications. <i>Advanced Functional Materials</i> ,2113390	15.6	1
1	Enhanced Furfural Production in Deep Eutectic Solvents Comprising Alkali Metal Halides as Additives. <i>Molecules</i> , 2021 , 26,	4.8	1