Armando Silvestre

List of Publications by Year
in descending order

370 papers	18,655 citations	11651 70 h-index	24258 110 g-index
380 all docs	380 docs citations	380 times ranked	18042 citing authors

#	Article	IF	Citations
1	Biobased polyesters and other polymers from 2,5-furandicarboxylic acid: a tribute to furan excellency. Polymer Chemistry, 2015, 6, 5961-5983.	3.9	531
2	The quest for sustainable polyesters â€“ insights into the future. Polymer Chemistry, 2014, 5, 3119-3141.	3.9	438
3	The furan counterpart of poly(ethylene terephthalate): An alternative material based on renewable resources. Journal of Polymer Science Part A, 2009, 47, 295-298.	2.3	425
4	Supercritical fluid extraction of vegetable matrices: Applications, trends and future perspectives of a convincing green technology. Journal of Supercritical Fluids, 2014, 92, 115-176.	3.2	394
5	Synthesis and characterization of poly(2,5â€furan dicarboxylate)s based on a variety of diols. Journal of Polymer Science Part A, 2011, 49, 3759-3768.	2.3	305
6	Materials from renewable resources based on furan monomers and furan chemistry: work in progress. Journal of Materials Chemistry, 2009, 19, 8656.	6.7	224
7	Controlled heterogeneous modification of cellulose fibers with fatty acids: Effect of reaction conditions on the extent of esterification and fiber properties. Journal of Applied Polymer Science, 2006, 100, 1093-1102.	2.6	216
8	Novel transparent nanocomposite films based on chitosan and bacterial cellulose. Green Chemistry, 2009, 11, 2023.	9.0	216
9	Bioinspired Antimicrobial and Biocompatible Bacterial Cellulose Membranes Obtained by Surface Functionalization with Aminoalkyl Groups. ACS Applied Materials & Interfaces, 2013, 5, 3290-3297.	8.0	211
10	Transparent chitosan films reinforced with a high content of nanofibrillated cellulose. Carbohydrate Polymers, 2010, 81, 394-401.	10.2	209
11	meso-Substituted expanded porphyrins: new and stable hexaphyrins. Chemical Communications, 1999, , 385-386.	4.1	193
12	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. Separation and Purification Technology, 2010, 75, 39-47.	7.9	180
13	Bacterial cellulose membranes applied in topical and transdermal delivery of lidocaine hydrochloride and ibuprofen: In vitro diffusion studies. International Journal of Pharmaceutics, 2012, 435, 83-87.	5.2	172
14	Characterization of Phenolic Components in Polar Extracts of Eucalyptus globulus Labill. Bark by High-Performance Liquid Chromatographyâ€“Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2011, 59, 9386-9393.	5.2	171
15	Bacterial cellulose membranes as drug delivery systems: An in vivo skin compatibility study. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 86, 332-336.	4.3	170
16	New biocomposites based on thermoplastic starch and bacterial cellulose. Composites Science and Technology, 2009, 69, 2163-2168.	7.8	168
17	Utilization of residues from agro-forest industries in the production of high value bacterial cellulose. Bioresource Technology, 2011, 102, 7354-7360.	9.6	167
18	Electrostatic assembly of Ag nanoparticles onto nanofibrillated cellulose for antibacterial paper products. Cellulose, 2012, 19, 1425-1436.	4.9	161

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19	Suberin: A promising renewable resource for novel macromolecular materials. Progress in Polymer Science, 2006, 31, 878-892.	24.7	159
20	Production of bacterial cellulose by Gluconacetobacter sacchari using dry olive mill residue. Biomass and Bioenergy, 2013, 55, 205-211.	5.7	153
21	Review of kinetic models for supercritical fluid extraction. Chemical Engineering Research and Design, 2011, 89, 1104-1117.	5.6	148
22	Protein-based materials: from sources to innovative sustainable materials for biomedical applications. Journal of Materials Chemistry B, 2014, 2, 3715.	5.8	146
23	Gluconacetobacter sacchari: An efficient bacterial cellulose cell-factory. Carbohydrate Polymers, 2011, 86, 1417-1420.	10.2	140
24	Antimicrobial activity of pomegranate peel extracts performed by high pressure and enzymatic assisted extraction. Food Research International, 2019, 115, 167-176.	6.2	140
25	New copolyesters derived from terephthalic and 2,5-furandicarboxylic acids: A step forward in the development of biobased polyesters. Polymer, 2013, 54, 513-519.	3.8	136
26	Reversible click chemistry at the service of macromolecular materials. Part 1: Kinetics of the Dielsâ€“Alder reaction applied to furanâ€“maleimide model compounds and linear polymerizations. European Polymer Journal, 2008, 44, 4029-4036.	5.4	130
27	Biocellulose Membranes as Supports for Dermal Release of Lidocaine. Biomacromolecules, 2011, 12, 4162-4168.	5.4	129
28	Seasonal distribution of polar organic compounds in the urban atmosphere of two large cities from the North and South of Europe. Atmospheric Environment, 2007, 41, 5555-5570.	4.1	128
29	Transparent bionanocomposites with improved properties prepared from acetylated bacterial cellulose and poly(lactic acid) through a simple approach. Green Chemistry, 2011, 13, 419.	9.0	126
30	Bacterial cellulose membranes as transdermal delivery systems for diclofenac: In vitro dissolution and permeation studies. Carbohydrate Polymers, 2014, 106, 264-269.	10.2	126
31	Antibacterial paper based on composite coatings of nanofibrillated cellulose and ZnO. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 111-119.	4.7	123
32	Enhanced Solubility of Lignin Monomeric Model Compounds and Technical Lignins in Aqueous Solutions of Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2017, 5, 4056-4065.	6.7	121
33	Cork suberin as a new source of chemicals.. International Journal of Biological Macromolecules, 1998, 22, 71-80.	7.5	116
34	Chitosan-based self-healing protective coatings doped with cerium nitrate for corrosion protection of aluminum alloy 2024. Progress in Organic Coatings, 2012, 75, 8-13.	3.9	116
35	Antifungal activity of transparent nanocomposite thin films of pullulan and silver against Aspergillus niger. Colloids and Surfaces B: Biointerfaces, 2013, 103, 143-148.	5.0	110
36	Inside PEF: Chain Conformation and Dynamics in Crystalline and Amorphous Domains. Macromolecules, 2018, 51, 3515-3526.	4.8	110

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37	A Perspective on PEF Synthesis, Properties, and End-Life. Frontiers in Chemistry, 2020, 8, 585.	3.6	110
38	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. Separation and Purification Technology, 2012, 97, 142-149.	7.9	108
39	The Role of Ionic Liquids in the Pharmaceutical Field: An Overview of Relevant Applications. International Journal of Molecular Sciences, 2020, 21, 8298.	4.1	108
40	Pullulanâ€“nanofibrillated cellulose composite films with improved thermal and mechanical properties. Composites Science and Technology, 2012, 72, 1556-1561.	7.8	107
41	Supercritical fluid extraction of phenolic compounds from Eucalyptus globulus Labill bark. Journal of Supercritical Fluids, 2012, 71, 71-79.	3.2	107
42	Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. Fluid Phase Equilibria, 2017, 448, 15-21.	2.5	105
43	Quercus suber and Betula pendula outer barks as renewable sources of oleochemicals: A comparative study. Industrial Crops and Products, 2009, 29, 126-132.	5.2	100
44	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. Molecules, 2020, 25, 3652.	3.8	99
45	Phenolic composition and antioxidant activity of Eucalyptus grandis, E. urograndis (E. grandisÃ—E.) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	98
46	Novel bacterial celluloseâ€“acrylic resin nanocomposites. Composites Science and Technology, 2010, 70, 1148-1153.	7.8	96
47	Chemical composition and antioxidant activity of phenolic extracts of cork from Quercus suber L.. Industrial Crops and Products, 2010, 31, 521-526.	5.2	95
48	Sustainable nanocomposite films based on bacterial cellulose and pullulan. Cellulose, 2012, 19, 729-737.	4.9	94
49	Towards a sulfur clean fuel: Deep extraction of thiophene and dibenzothiophene using polyethylene glycol-based deep eutectic solvents. Fuel, 2018, 234, 414-421.	6.4	93
50	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. Composites Science and Technology, 2008, 68, 3358-3364.	7.8	92
51	A New Generation of Furanic Copolyesters with Enhanced Degradability: Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1 Physics, 2014, 215, 2175-2184.	2.2	92
52	Phenolic profile of Sercial and Tinta Negra Vitis vinifera L. grape skins by HPLCâ€“DADâ€“ESI-MSn. Food Chemistry, 2012, 135, 94-104.	8.2	91
53	Identification of New Hydroxy Fatty Acids and Ferulic Acid Esters in the Wood of Eucalyptus globulus. Holzforschung, 2002, 56, 143-149.	1.9	90
54	Novel materials based on chitosan and cellulose. Polymer International, 2011, 60, 875-882.	3.1	89

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55	Deep eutectic solvents comprising active pharmaceutical ingredients in the development of drug delivery systems. Expert Opinion on Drug Delivery, 2019, 16, 497-506.	5.0	88
56	Preparation and characterization of bacterial cellulose membranes with tailored surface and barrier properties. Cellulose, 2010, 17, 1203-1211.	4.9	87
57	Structural Characterization of the Lignin from the Nodes and Internodes ofArundo donaxReed. Journal of Agricultural and Food Chemistry, 2000, 48, 817-824.	5.2	85
58	Nanocellulose-based materials as components of polymer electrolyte fuel cells. Journal of Materials Chemistry A, 2019, 7, 20045-20074.	10.3	85
59	Chemical composition of different morphological parts from â€˜Dwarf Cavendishâ€™ banana plant and their potential as a non-wood renewable source of natural products. Industrial Crops and Products, 2007, 26, 163-172.	5.2	83
60	Composition of Suberin Extracted upon Gradual Alkaline Methanolysis ofQuercus suberL. Cork. Journal of Agricultural and Food Chemistry, 2000, 48, 383-391.	5.2	82
61	Lipophilic Extractives of the Inner and Outer Barks of Eucalyptus globulus. Holzforschung, 2002, 56, 372-379.	1.9	82
62	Eucalyptus globulus biomass residues from pulping industry as a source of high value triterpenic compounds. Industrial Crops and Products, 2010, 31, 65-70.	5.2	82
63	Novel insights into biomass delignification with acidic deep eutectic solvents: a mechanistic study of Î²-O-4 ether bond cleavage and the role of the halide counterion in the catalytic performance. Green Chemistry, 2020, 22, 2474-2487.	9.0	82
64	Nanostructured Bacterial Celluloseâ€“Poly(4-styrene sulfonic acid) Composite Membranes with High Storage Modulus and Protonic Conductivity. ACS Applied Materials & Interfaces, 2014, 6, 7864-7875.	8.0	81
65	Chlorophyta and Rhodophyta macroalgae: A source of health promoting phytochemicals. Food Chemistry, 2015, 183, 122-128.	8.2	79
66	Plant Oilâ€Based Longâ€Chain C₂₆ Monomers and Their Polymers. Macromolecular Chemistry and Physics, 2012, 213, 2220-2227.	2.2	76
67	Isolation of suberin from birch outer bark and cork using ionic liquids: A new source of macromonomers. Industrial Crops and Products, 2013, 44, 520-527.	5.2	76
68	High value triterpenic compounds from the outer barks of several Eucalyptus species cultivated in Brazil and in Portugal. Industrial Crops and Products, 2011, 33, 158-164.	5.2	75
69	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. ChemSusChem, 2018, 11, 753-762.	6.8	75
70	Comparative studies of fungal degradation of single or mixed bioaccessible reactive azo dyes. Chemosphere, 2003, 52, 967-973.	8.2	73
71	Nanostructured Composites Obtained by ATRP Sleeving of Bacterial Cellulose Nanofibers with Acrylate Polymers. Biomacromolecules, 2013, 14, 2063-2073.	5.4	73
72	Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. Green Chemistry, 2011, 13, 2464.	9.0	71

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73	Lipophilic Extracts of Cynara cardunculus L. var. altilis (DC): A Source of Valuable Bioactive Terpenic Compounds. Journal of Agricultural and Food Chemistry, 2013, 61, 8420-8429.	5.2	71
74	What Is the Real Value of Chitosanâ€™s Surface Energy?. Biomacromolecules, 2008, 9, 610-614.	5.4	70
75	Ultra-high performance liquid chromatography coupled to mass spectrometry applied to the identification of valuable phenolic compounds from Eucalyptus wood. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 938, 65-74.	2.3	70
76	The Quest for Phenolic Compounds from Macroalgae: A Review of Extraction and Identification Methodologies. Biomolecules, 2019, 9, 847.	4.0	70
77	Oxidation of aromatic monoterpenes with hydrogen peroxide catalysed by Mn(III) porphyrin complexes. Journal of Molecular Catalysis A, 1999, 137, 41-47.	4.8	69
78	Recent Developments in the Functionalization of Betulinic Acid and Its Natural Analogues: A Route to New Bioactive Compounds. Molecules, 2019, 24, 355.	3.8	69
79	Oxidation of unsaturated monoterpenes with hydrogen peroxide catalysed by manganese(III) porphyrin complexes. Journal of Molecular Catalysis A, 2001, 172, 33-42.	4.8	68
80	Concurrent Desulfurization and Denitrogenation of Fuels Using Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2019, 7, 11341-11349.	6.7	68
81	Antioxidant and antimicrobial films based on brewers spent grain arabinoxylans, nanocellulose and feruloylated compounds for active packaging. Food Hydrocolloids, 2020, 108, 105836.	10.7	68
82	Analysis of the variation of the essential oil composition of Eucalyptus globulus Labill. from Portugal using multivariate statistical analysis. Industrial Crops and Products, 1997, 6, 27-33.	5.2	67
83	Genotype and sex effects on carcass and meat quality of suckling kids protected by the PGI â€œCabrito de Barrosoâ€. Meat Science, 2007, 75, 725-736.	5.5	67
84	Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gasâ€“solid reaction. Journal of Colloid and Interface Science, 2010, 344, 588-595.	9.4	67
85	Optimization of the supercritical fluid extraction of triterpenic acids from Eucalyptus globulus bark using experimental design. Journal of Supercritical Fluids, 2013, 74, 105-114.	3.2	67
86	Phenolic composition and antioxidant activity of different morphological parts of Cynara cardunculus L. var. altilis (DC). Industrial Crops and Products, 2014, 61, 460-471.	5.2	66
87	Do bacterial cellulose membranes have potential in drug-delivery systems?. Expert Opinion on Drug Delivery, 2014, 11, 1113-1124.	5.0	66
88	Cinnamic acid derivatives as promising building blocks for advanced polymers: synthesis, properties and applications. Polymer Chemistry, 2019, 10, 1696-1723.	3.9	66
89	Anti-inflammatory and antioxidant nanostructured cellulose membranes loaded with phenolic-based ionic liquids for cutaneous application. Carbohydrate Polymers, 2019, 206, 187-197.	10.2	66
90	Phenolic composition and antioxidant activity of industrial cork by-products. Industrial Crops and Products, 2013, 47, 262-269.	5.2	65

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91	Reversible click chemistry at the service of macromolecular materials. 2. Thermoreversible polymers based on the Dielsâ€Alder reaction of an Aâ€B furan/maleimide monomer. Journal of Polymer Science Part A, 2010, 48, 2053-2056.	2.3	64
92	Enhanced Conversion of Xylan into Furfural using Acidic Deep Eutectic Solvents with Dual Solvent and Catalyst Behavior. ChemSusChem, 2020, 13, 784-790.	6.8	63
93	Phenolic constituents from the core of Kenaf (Hibiscus cannabinus). Phytochemistry, 2001, 56, 759-767.	2.9	62
94	Chemical composition and structural features of the macromolecular components of Hibiscus cannabinus grown in Portugal. Industrial Crops and Products, 1996, 5, 189-196.	5.2	61
95	Variations in chemical composition and structure of macromolecular components in different morphological regions and maturity stages of Arundo donax. Industrial Crops and Products, 1997, 6, 51-58.	5.2	61
96	Highly Hydrophobic Biopolymers Prepared by the Surface Pentafluorobenzoylation of Cellulose Substrates. Biomacromolecules, 2007, 8, 1347-1352.	5.4	61
97	Triterpenic and Other Lipophilic Components from Industrial Cork Byproducts. Journal of Agricultural and Food Chemistry, 2006, 54, 6888-6893.	5.2	60
98	New unsaturated copolyesters based on 2,5-furandicarboxylic acid and their crosslinked derivatives. Polymer Chemistry, 2016, 7, 1049-1058.	3.9	60
99	Topical caffeine delivery using biocellulose membranes: a potential innovative system for cellulite treatment. Cellulose, 2014, 21, 665-674.	4.9	59
100	Renewable-based poly((ether)ester)s from 2,5-furandicarboxylic acid. Polymer, 2016, 98, 129-135.	3.8	58
101	Poly(N-methacryloyl glycine)/nanocellulose composites as pH-sensitive systems for controlled release of diclofenac. Carbohydrate Polymers, 2017, 169, 357-365.	10.2	58
102	Lignanamides and other phenolic constituents from the bark of kenaf (Hibiscus cannabinus). Phytochemistry, 2001, 58, 1219-1223.	2.9	57
103	The role of nanocellulose fibers, starch and chitosan on multipolysaccharide based films. Cellulose, 2013, 20, 1807-1818.	4.9	57
104	Surface characterization by XPS, contact angle measurements and ToF-SIMS of cellulose fibers partially esterified with fatty acids. Journal of Colloid and Interface Science, 2006, 301, 205-209.	9.4	56
105	Photodegradation of metoprolol using a porphyrin as photosensitizer under homogeneous and heterogeneous conditions. Journal of Hazardous Materials, 2019, 370, 13-23.	12.4	56
106	Antimicrobial bacterial cellulose nanocomposites prepared by in situ polymerization of 2-aminoethyl methacrylate. Carbohydrate Polymers, 2015, 123, 443-453.	10.2	55
107	Nafion Â® and nanocellulose: A partnership for greener polymer electrolyte membranes. Industrial Crops and Products, 2016, 93, 212-218.	5.2	55
108	Suberin isolation from cork using ionic liquids: characterisation of ensuing products. New Journal of Chemistry, 2012, 36, 2014.	2.8	54

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109	Aqueous Solutions of Surface-Active Ionic Liquids: Remarkable Alternative Solvents To Improve the Solubility of Triterpenic Acids and Their Extraction from Biomass. ACS Sustainable Chemistry and Engineering, 2017, 5, 7344-7351.	6.7	54
110	An Efficient Method for Determination of the Degree of Substitution of Cellulose Esters of Long Chain Aliphatic Acids. Cellulose, 2005, 12, 449-458.	4.9	53
111	Structural characterization of stalk lignin from banana plant. Industrial Crops and Products, 2009, 29, 86-95.	5.2	53
112	Supercritical fluid extraction of triterpenic acids from Eucalyptus globulus bark. Journal of Supercritical Fluids, 2012, 70, 137-145.	3.2	53
113	Antimicrobial pullulan derivative prepared by grafting with 3-aminopropyltrimethoxysilane: Characterization and ability toÂformÂtransparent films. Food Hydrocolloids, 2014, 35, 247-252.	10.7	53
114	Fluorescent Bioactive Corrole Grafted-Chitosan Films. Biomacromolecules, 2016, 17, 1395-1403.	5.4	53
115	BEHAVIOR OFEUCALYPTUS GLOBULUSLIGNIN DURING KRAFT PULPING. II. ANALYSIS BY NMR, ESI/MS, AND GPC. Journal of Wood Chemistry and Technology, 2002, 22, 109-125.	1.7	52
116	Terpenes: Major Sources, Properties and Applications. , 2008, , 17-38.		52
117	Lipophilic phytochemicals from banana fruits of several Musa species. Food Chemistry, 2014, 162, 247-252.	8.2	52
118	Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. Green Chemistry, 2016, 18, 4582-4604.	9.0	52
119	Bacterial nanocellulose-hyaluronic acid microneedle patches for skin applications: In vitro and in vivo evaluation. Materials Science and Engineering C, 2021, 118, 111350.	7.3	52
120	Production of Coated Papers with Improved Properties by Using a Water-Soluble Chitosan Derivative. Industrial & Engineering Chemistry Research, 2010, 49, 6432-6438.	3.7	51
121	Valorization of olive mill residues: Antioxidant and breast cancer antiproliferative activities of hydroxytyrosol-rich extracts derived from olive oil by-products. Industrial Crops and Products, 2013, 46, 359-368.	5.2	51
122	Design of Nonsteroidal Anti-Inflammatory Drug-Based Ionic Liquids with Improved Water Solubility and Drug Delivery. ACS Sustainable Chemistry and Engineering, 2019, 7, 14126-14134.	6.7	51
123	Lignin aerobic oxidation promoted by molybdovanadophosphate polyanion [PMo7V5O40]8â^'. Study on the oxidative cleavage of Î²-O-4 aryl ether structures using model compounds. Journal of Molecular Catalysis A, 2000, 154, 217-224.	4.8	50
124	Effect of oxygen, ozone and hydrogen peroxide bleaching stages on the contents and composition of extractives of Eucalyptus globulus kraft pulps. Bioresource Technology, 2006, 97, 420-428.	9.6	49
125	Supercritical Fluid Extraction of Eucalyptus globulus Barkâ€"A Promising Approach for Triterpenoid Production. International Journal of Molecular Sciences, 2012, 13, 7648-7662.	4.1	49
126	Protonic conductivity and fuel cell tests of nanocomposite membranes based on bacterial cellulose. Electrochimica Acta, 2017, 233, 52-61.	5.2	49

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127	Tailored design of renewable copolymers based on poly(1,4-butylene 2,5-furandicarboxylate) and poly(ethylene glycol) with refined thermal properties. Polymer Chemistry, 2018, 9, 722-731.	3.9	49
128	Bacterial Nanocellulose toward Green Cosmetics: Recent Progresses and Challenges. International Journal of Molecular Sciences, 2021, 22, 2836.	4.1	49
129	Lipophilic Extracts from Banana Fruit Residues: A Source of Valuable Phytosterols. Journal of Agricultural and Food Chemistry, 2008, 56, 9520-9524.	5.2	48
130	Reversible click chemistry at the service of macromolecular materials. Polymer Chemistry, 2011, 2, 1713.	3.9	48
131	Novel suberinâ€based biopolyesters: From synthesis to properties. Journal of Polymer Science Part A, 2011, 49, 2281-2291.	2.3	48
132	Swellable Gelatin Methacryloyl Microneedles for Extraction of Interstitial Skin Fluid toward Minimally Invasive Monitoring of Urea. Macromolecular Bioscience, 2020, 20, e2000195.	4.1	48
133	Pullulan microneedle patches for the efficient transdermal administration of insulin envisioning diabetes treatment. Carbohydrate Polymers, 2020, 241, 116314.	10.2	48
134	Miscanthus x giganteus Extractives: A Source of Valuable Phenolic Compounds and Sterols. Journal of Agricultural and Food Chemistry, 2009, 57, 3626-3631.	5.2	47
135	Zwitterionic Nanocellulose-Based Membranes for Organic Dye Removal. Materials, 2019, 12, 1404.	2.9	47
136	Synthesis and Characterization of Novel Biopolyesters from Suberin and Model Comonomers. ChemSusChem, 2008, 1, 1020-1025.	6.8	45
137	Reversible polymerization of novel monomers bearing furan and plant oil moieties: a double click exploitation of renewable resources. RSC Advances, 2012, 2, 2966.	3.6	44
138	Ex Situ Reconstitution of the Plant Biopolyester Suberin as a Film. Biomacromolecules, 2014, 15, 1806-1813.	5.4	44
139	Lipophilic phytochemicals from elderberries (Sambucus nigra L.): Influence of ripening, cultivar and season. Industrial Crops and Products, 2015, 71, 15-23.	5.2	44
140	New Materials Based on Cationic Porphyrins Conjugated to Chitosan or Titanium Dioxide: Synthesis, Characterization and Antimicrobial Efficacy. International Journal of Molecular Sciences, 2019, 20, 2522.	4.1	44
141	Thermoreversible nonlinear dielsâ€alder polymerization of furan/plant oil monomers. Journal of Polymer Science Part A, 2013, 51, 2260-2270.	2.3	43
142	Characterisation of carbonaceous aerosols from the Azorean Island of Terceira. Atmospheric Environment, 2007, 41, 1359-1373.	4.1	42
143	Unveiling the dual role of the cholinium hexanoate ionic liquid as solvent and catalyst in suberin depolymerisation. RSC Advances, 2014, 4, 2993-3002.	3.6	42
144	Wood delignification with aqueous solutions of deep eutectic solvents. Industrial Crops and Products, 2021, 160, 113128.	5.2	42

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145	Chemical composition of the epicuticular wax from the fruits ofEucalyptus globulus. Phytochemical Analysis, 2005, 16, 364-369.	2.4	41
146	Characterization and evaluation of the hydrolytic stability of trifluoroacetylated cellulose fibers. Journal of Colloid and Interface Science, 2007, 316, 360-366.	9.4	41
147	Preparation and evaluation of the barrier properties of cellophane membranes modified with fatty acids. Carbohydrate Polymers, 2011, 83, 836-842.	10.2	40
148	Analysis of organophosphorus pesticides in whole blood by GC-MS-Î¼ECD with forensic purposes. Journal of Clinical Forensic and Legal Medicine, 2015, 33, 28-34.	1.0	40
149	Exploiting poly(ionic liquids) and nanocellulose for the development of bio-based anion-exchange membranes. Biomass and Bioenergy, 2017, 100, 116-125.	5.7	40
150	Control of Listeria innocua biofilms by biocompatible photodynamic antifouling chitosan based materials. Dyes and Pigments, 2017, 137, 265-276.	3.7	40
151	Novel sustainable composites prepared from cork residues and biopolymers. Biomass and Bioenergy, 2013, 55, 148-155.	5.7	39
152	Reversible click chemistry at the service of macromolecular materials. Part 4: Dielsâ€“Alder non-linear polycondensations involving polyfunctional furan and maleimide monomers. Polymer Chemistry, 2013, 4, 1364-1371.	3.9	39
153	Bacterial cellulose as carrier for immobilization of laccase: Optimization and characterization. Engineering in Life Sciences, 2014, 14, 500-508.	3.6	39
154	The potential of cork from Quercus suber L. grown in Algeria as a source of bioactive lipophilic and phenolic compounds. Industrial Crops and Products, 2015, 76, 936-945.	5.2	39
155	Carbohydrate-Derived Chlorinated Compounds in ECF Bleaching of Hardwood Pulps:Â Formation, Degradation, and Contribution To AOX in a Bleached Kraft Pulp Mill. Environmental Science & Technology, 2003, 37, 811-814.	10.0	38
156	Chemical characterization of the lipophilic fraction of giant reed (Arundo donax) fibres used for pulp and paper manufacturing. Industrial Crops and Products, 2007, 26, 229-236.	5.2	38
157	Polymers and copolymers from fatty acid-based monomers. Industrial Crops and Products, 2010, 32, 97-104.	5.2	38
158	Biocompatible Bacterial Cellulose-Poly(2-hydroxyethyl methacrylate) Nanocomposite Films. BioMed Research International, 2013, 2013, 1-14.	1.9	38
159	Poly(ionic liquids) in solid phase microextraction: Recent advances and perspectives. Progress in Polymer Science, 2019, 98, 101148.	24.7	38
160	Seasonal variation of particulate lipophilic organic compounds at nonurban sites in Europe. Journal of Geophysical Research, 2007, 112, .	3.3	37
161	Unveiling the Chemistry behind the Green Synthesis of Metal Nanoparticles. ChemSusChem, 2014, 7, 2704-2711.	6.8	37
162	Valorization of olive tree leaves: Extraction of oleanolic acid using aqueous solutions of surface-active ionic liquids. Separation and Purification Technology, 2018, 204, 30-37.	7.9	37

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163	Poly(bis[2-(methacryloyloxy)ethyl] phosphate)/Bacterial Cellulose Nanocomposites: Preparation, Characterization and Application as Polymer Electrolyte Membranes. Applied Sciences (Switzerland), 2018, 8, 1145.	2.5	37
164	A compendium of current developments on polysaccharide and protein-based microneedles. International Journal of Biological Macromolecules, 2019, 136, 704-728.	7.5	37
165	Spherical Cellulose Micro and Nanoparticles: A Review of Recent Developments and Applications. Nanomaterials, 2021, 11, 2744.	4.1	37
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