Carlos Pascoal Neto

List of Publications by Citations

189 papers	9,792 citations	58 h-index	88 g-index
191 ext. papers	10,536 ext. citations	5.6 avg, IF	5.91 L-index

#	Paper	IF	Citations
189	The furan counterpart of poly(ethylene terephthalate): An alternative material based on renewable resources. *Journal of Polymer Science Part A*, **2009**, 47, 295-298	2.5	365
188	Antibacterial activity of nanocomposites of silver and bacterial or vegetable cellulosic fibers. *Acta Biomaterialia*, **2009**, 5, 2279-89	10.8	234
187	Transparent chitosan films reinforced with a high content of nanofibrillated cellulose. *Carbohydrate Polymers*, **2010**, 81, 394-401	10.3	185
186	Novel transparent nanocomposite films based on chitosan and bacterial cellulose. *Green Chemistry*, **2009**, 11, 2023	10	184
185	Comprehensive study on the chemical structure of dioxane lignin from plantation Eucalyptus globulus wood. *Journal of Agricultural and Food Chemistry*, **2001**, 49, 4252-61	5.7	183
184	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	2.9	181
183	Characterization of an acetylated heteroxylan from Eucalyptus globulus Labill. *Carbohydrate Research*, **2003**, 338, 597-604	2.9	169
182	New biocomposites based on thermoplastic starch and bacterial cellulose. *Composites Science and Technology*, **2009**, 69, 2163-2168	8.6	152
181	Electrostatic assembly of Ag nanoparticles onto nanofibrillated cellulose for antibacterial paper products. *Cellulose*, **2012**, 19, 1425-1436	5.5	150
180	Bacterial cellulose membranes applied in topical and transdermal delivery of lidocaine hydrochloride and ibuprofen: in vitro diffusion studies. *International Journal of Pharmaceutics*, **2012** , 435, 83-7	6.5	138
179	Suberin: A promising renewable resource for novel macromolecular materials. *Progress in Polymer Science*, **2006**, 31, 878-892	29.6	133
178	Utilization of residues from agro-forest industries in the production of high value bacterial cellulose. *Bioresource Technology*, **2011**, 102, 7354-60	11	131
177	Characterization of phenolic components in polar extracts of Eucalyptus globulus Labill. bark by high-performance liquid chromatography-mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 9386-93	5.7	128
176	Antibacterial activity of optically transparent nanocomposite films based on chitosan or its derivatives and silver nanoparticles. *Carbohydrate Research*, **2012**, 348, 77-83	2.9	123
175	Transparent bionanocomposites with improved properties prepared from acetylated bacterial cellulose and poly(lactic acid) through a simple approach. *Green Chemistry*, **2011**, 13, 419	10	117
174	Gluconacetobacter sacchari: An efficient bacterial cellulose cell-factory. *Carbohydrate Polymers*, **2011**, 86, 1417-1420	10.3	117
173	Production of bacterial cellulose by Gluconacetobacter sacchari using dry olive mill residue. *Biomass and Bioenergy*, **2013**, 55, 205-211	5.3	115

172	Antibacterial paper based on composite coatings of nanofibrillated cellulose and ZnO. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 417, 111-119	5.1	112
171	Biocellulose membranes as supports for dermal release of lidocaine. *Biomacromolecules*, **2011**, 12, 4162-8	6.9	110
170	Protein-based materials: from sources to innovative sustainable materials for biomedical applications. *Journal of Materials Chemistry B*, **2014**, 2, 3715-3740	7.3	109
169	Titanium dioxide/cellulose nanocomposites prepared by a controlled hydrolysis method. *Composites Science and Technology*, **2006**, 66, 1038-1044	8.6	108
168	Alternatives for lignocellulosic pulp delignification using polyoxometalates and oxygen: a review. *Green Chemistry*, **2007**, 9, 717	10	106
167	Cork suberin as a new source of chemicals. 1. Isolation and chemical characterization of its composition. *International Journal of Biological Macromolecules*, **1998**, 22, 71-80	7.9	99
166	Bacterial cellulose membranes as transdermal delivery systems for diclofenac: in vitro dissolution and permeation studies. *Carbohydrate Polymers*, **2014**, 106, 264-9	10.3	98
165	Pullulan□anofibrillated cellulose composite films with improved thermal and mechanical properties. *Composites Science and Technology*, **2012**, 72, 1556-1561	8.6	97
164	Surface modification of cellulosic fibres for multi-purpose TiO2 based nanocomposites. *Composites Science and Technology*, **2009**, 69, 1051-1056	8.6	95
163	Supercritical fluid extraction of phenolic compounds from Eucalyptus globulus Labill bark. *Journal of Supercritical Fluids*, **2012**, 71, 71-79	4.2	94
162	Phenolic composition and antioxidant activity of Eucalyptus grandis, E. urograndis (E. grandis□E. urophylla) and E. maidenii bark extracts. *Industrial Crops and Products*, **2012**, 39, 120-127	5.9	91
161	(2-O-alpha-D-galactopyranosyl-4-O-methyl-alpha-D-glucurono)-D-xylan from Eucalyptus globulus Labill. *Carbohydrate Research*, **1999**, 320, 93-9	2.9	88
160	Sustainable nanocomposite films based on bacterial cellulose and pullulan. *Cellulose*, **2012**, 19, 729-737	5.5	87
159	Quercus suber and Betula pendula outer barks as renewable sources of oleochemicals: A comparative study. *Industrial Crops and Products*, **2009**, 29, 126-132	5.9	87
158	Antifungal activity of transparent nanocomposite thin films of pullulan and silver against Aspergillus niger. *Colloids and Surfaces B: Biointerfaces*, **2013**, 103, 143-8	6	86
157	Novel SiO2/cellulose nanocomposites obtained by in situ synthesis and via polyelectrolytes assembly. *Composites Science and Technology*, **2008**, 68, 1088-1093	8.6	86
156	Silver-bacterial cellulosic sponges as active SERS substrates. *Journal of Raman Spectroscopy*, **2008**, 39, 439-443	2.3	83
155	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	8.6	83

154	Superhydrophobic cellulose nanocomposites. *Journal of Colloid and Interface Science*, **2008**, 324, 42-6	9.3	82
153	Antibacterial activity of nanocomposites of copper and cellulose. *BioMed Research International*, **2013**, 2013, 280512	3	80
152	Novel bacterial cellulose–acrylic resin nanocomposites. *Composites Science and Technology*, **2010**, 70, 1148-1153	8.6	80
151	Chemical characterisation of bark and of alkaline bark extracts from maritime pine grown in Portugal. *Industrial Crops and Products*, **2002**, 16, 23-32	5.9	80
150	Identification of New Hydroxy Fatty Acids and Ferulic Acid Esters in the Wood of Eucalyptus globulus. *Holzforschung*, **2002**, 56, 143-149	2	80
149	Lipophilic Extractives of the Inner and Outer Barks of Eucalyptus globulus. *Holzforschung*, **2002**, 56, 372-379	2	76
148	Effect of Structural Features of Wood Biopolymers on Hardwood Pulping and Bleaching Performance. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9777-9784	3.9	75
147	13C solid-state nuclear magnetic resonance and Fourier transform infrared studies of the thermal decomposition of cork. *Solid State Nuclear Magnetic Resonance*, **1995**, 4, 143-51	3.1	75
146	Structural characterization of the lignin from the nodes and internodes of Arundo donax reed. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 817-24	5.7	73
145	Composition of suberin extracted upon gradual alkaline methanolysis of Quercus suber L. cork. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 383-91	5.7	73
144	Phenolic profile of Sercial and Tinta Negra Vitis vinifera L. grape skins by HPLC–DAD–ESI-MSn: Novel phenolic compounds in Vitis vinifera L. grape. *Food Chemistry*, **2012**, 135, 94-104	8.5	72
143	Preparation and characterization of bacterial cellulose membranes with tailored surface and barrier properties. *Cellulose*, **2010**, 17, 1203-1211	5.5	72
142	Chemical composition and antioxidant activity of phenolic extracts of cork from Quercus suber L.. *Industrial Crops and Products*, **2010**, 31, 521-526	5.9	72
141	Novel materials based on chitosan and cellulose. *Polymer International*, **2011**, 60, 875-882	3.3	69
140	Electrostatic assembly and growth of gold nanoparticles in cellulosic fibres. *Journal of Colloid and Interface Science*, **2007**, 312, 506-12	9.3	69
139	Eucalyptus globulus biomass residues from pulping industry as a source of high value triterpenic compounds. *Industrial Crops and Products*, **2010**, 31, 65-70	5.9	68
138	Structure of hardwood glucuronoxylans: modifications and impact on pulp retention during wood kraft pulping. *Carbohydrate Polymers*, **2005**, 60, 489-497	10.3	68
137	Nanostructured composites obtained by ATRP sleeving of bacterial cellulose nanofibers with acrylate polymers. *Biomacromolecules*, **2013**, 14, 2063-73	6.9	67

136	A 13C solid state nuclear magnetic resonance spectroscopic study of cork cell wall structure: the effect of suberin removal. *International Journal of Biological Macromolecules*, **1997**, 20, 293-305	7.9	67
135	Nanostructured bacterial cellulose-poly(4-styrene sulfonic acid) composite membranes with high storage modulus and protonic conductivity. *ACS Applied Materials & Interfaces*, **2014**, 6, 7864-75	9.5	65
134	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	5.9	65
133	Solid-State Nmr Studies Of Wood And Other Lignocellulosic Materials. *Annual Reports on NMR Spectroscopy*, **1999**, 75-117	1.7	62
132	Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. *Green Chemistry*, **2011**, 13, 2464	10	61
131	Do bacterial cellulose membranes have potential in drug-delivery systems?. *Expert Opinion on Drug Delivery*, **2014**, 11, 1113-24	8	58
130	Optimization of the supercritical fluid extraction of triterpenic acids from Eucalyptus globulus bark using experimental design. *Journal of Supercritical Fluids*, **2013**, 74, 105-114	4.2	58
129	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	3.2	57
128	Oxypropylation of cork and the use of the ensuing polyols in polyurethane formulations. *Biomacromolecules*, **2002**, 3, 57-62	6.9	57
127	Chemical composition and structural features of the macromolecular components of Hibiscus cannabinus grown in Portugal. *Industrial Crops and Products*, **1996**, 5, 189-196	5.9	57
126	Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. *Journal of Colloid and Interface Science*, **2010**, 344, 588-95	9.3	56
125	What is the real value of chitosan's surface energy?. *Biomacromolecules*, **2008**, 9, 610-4	6.9	56
124	Phenolic constituents from the core of kenaf (Hibiscus cannabinus). *Phytochemistry*, **2001**, 56, 759-67	4	56
123	Growth, Structural, and Optical Characterization of ZnO-Coated Cellulosic Fibers. *Crystal Growth and Design*, **2009**, 9, 386-390	3.5	55
122	Oxidative delignification in the presence of molybdovanadophosphate heteropolyanions: mechanism and kinetic studies. *Applied Catalysis A: General*, **1998**, 167, 123-139	5.1	55
121	The role of nanocellulose fibers, starch and chitosan on multipolysaccharide based films. *Cellulose*, **2013**, 20, 1807-1818	5.5	54
120	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	5.9	54
119	Phenolic composition and antioxidant activity of industrial cork by-products. *Industrial Crops and Products*, **2013**, 47, 262-269	5.9	53

118	Highly hydrophobic biopolymers prepared by the surface pentafluorobenzoylation of cellulose substrates. *Biomacromolecules*, **2007**, 8, 1347-52	6.9	53
117	Isolation and structural characterization of polysaccharides dissolved in Eucalyptus globulus kraft black liquors. *Carbohydrate Polymers*, **2005**, 60, 77-85	10.3	53
116	Variability of cork from Portuguese Quercus suber studied by solid-state (13)C-NMR and FTIR spectroscopies. *Biopolymers*, **2001**, 62, 268-77	2.2	53
115	Topical caffeine delivery using biocellulose membranes: a potential innovative system for cellulite treatment. *Cellulose*, **2014**, 21, 665-674	5.5	51
114	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, 205-9	9.3	51
113	Synthesis and characterization of new CaCO3/cellulose nanocomposites prepared by controlled hydrolysis of dimethylcarbonate. *Carbohydrate Polymers*, **2010**, 79, 1150-1156	10.3	50
112	Triterpenic and other lipophilic components from industrial cork byproducts. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 6888-93	5.7	50
111	BEHAVIOR OF EUCALYPTUS GLOBULUS LIGNIN DURING KRAFT PULPING. II. ANALYSIS BY NMR, ESI/MS, AND GPC. *Journal of Wood Chemistry and Technology*, **2002**, 22, 109-125	2	49
110	Lignanamides and other phenolic constituents from the bark of kenaf (Hibiscus cannabinus). *Phytochemistry*, **2001**, 58, 1219-23	4	48
109	An Efficient Method for Determination of the Degree of Substitution of Cellulose Esters of Long Chain Aliphatic Acids. *Cellulose*, **2005**, 12, 449-458	5.5	47
108	Urethanes and polyurethanes from suberin: 1. Kinetic study. *Industrial Crops and Products*, **1997**, 6, 163-167	3.9	45
107	Lignin aerobic oxidation promoted by molybdovanadophosphate polyanion [PMo7V5O40]8Study on the oxidative cleavage of O-4 aryl ether structures using model compounds. *Journal of Molecular Catalysis A*, **2000**, 154, 217-224		45
106	Ecopolyol Production from Industrial Cork Powder via Acid Liquefaction Using Polyhydric Alcohols. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 846-854	8.3	44
105	Bioactive Triterpenic Acids: From Agroforestry Biomass Residues to Promising Therapeutic Tools. *Mini-Reviews in Organic Chemistry*, **2014**, 11, 382-399	1.7	43
104	Novel suberin-based biopolyesters: From synthesis to properties. *Journal of Polymer Science Part A*, **2011**, 49, 2281-2291	2.5	42
103	Supercritical fluid extraction of Eucalyptus globulus bark-A promising approach for triterpenoid production. *International Journal of Molecular Sciences*, **2012**, 13, 7648-62	6.3	42
102	Cork suberin as a new source of chemicals: 2. Crystallinity, thermal and rheological properties. *Bioresource Technology*, **1998**, 63, 153-158	11	42
101	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, 420-8	11	42

100	Miscanthus x giganteus extractives: a source of valuable phenolic compounds and sterols. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 3626-31	5.7	41
99	Synthesis and characterization of novel biopolyesters from suberin and model comonomers. *ChemSusChem*, **2008**, 1, 1020-5	8.3	41
98	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	5.9	39
97	Characterization and evaluation of the hydrolytic stability of trifluoroacetylated cellulose fibers. *Journal of Colloid and Interface Science*, **2007**, 316, 360-6	9.3	38
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94	Urethanes and polyurethanes from suberin 2: synthesis and characterization. *Industrial Crops and Products*, **1999**, 10, 1-10	5.9	37
93	Chemical composition of the epicuticular wax from the fruits of Eucalyptus globulus. *Phytochemical Analysis*, **2005**, 16, 364-9	3.4	36
92	Novel sustainable composites prepared from cork residues and biopolymers. *Biomass and Bioenergy* , **2013**, 55, 148-155	5.3	35
91	The bulk oxypropylation of chitin and chitosan and the characterization of the ensuing polyols. *Green Chemistry*, **2008**, 10, 93-97	10	35
90	Oxygen bleaching of kraft pulp catalysed by Mn(III)-substituted polyoxometalates. *Applied Catalysis A: General*, **2003**, 239, 157-168	5.1	35
89	Growth and Chemical Stability of Copper Nanostructures on Cellulosic Fibers. *European Journal of Inorganic Chemistry*, **2012**, 2012, 5043-5049	2.3	34
88	Preparation and evaluation of the barrier properties of cellophane membranes modified with fatty acids. *Carbohydrate Polymers*, **2011**, 83, 836-842	10.3	34
87	Chemical composition and structural features of the macromolecular components of plantation Acacia mangium wood. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 7856-62	5.7	34
86	Cellulose degradation in the reaction system O2/heteropolyanions of series [PMo(12□)VnO40](3+n)□*Carbohydrate Polymers*, **2000**, 43, 23-32	10.3	34
85	Structural Characterization of the Bark and Core Lignins from Kenaf (Hibiscus cannabinus). *Journal of Agricultural and Food Chemistry*, **1998**, 46, 3100-3108	5.7	34
84	Production of Coated Papers with Improved Properties by Using a Water-Soluble Chitosan Derivative. *Industrial & Engineering Chemistry Research*, **2010**, 49, 6432-6438	3.9	33
83	Biocompatible bacterial cellulose-poly(2-hydroxyethyl methacrylate) nanocomposite films. *BioMed Research International*, **2013**, 2013, 698141	3	32

82	Carbohydrate-derived chlorinated compounds in ECF bleaching of hardwood pulps: formation, degradation, and contribution to AOX in a bleached kraft pulp mill. *Environmental Science & Technology*, **2003**, 37, 811-4	10.3	32
81	Reversible hydrophobization and lipophobization of cellulose fibers via trifluoroacetylation. *Journal of Colloid and Interface Science*, **2006**, 301, 333-6	9.3	31
80	Polyoxometalate-Catalyzed Oxygen Delignification of Kraft Pulp: A Pilot-Plant Experience. *Industrial & Engineering Chemistry Research*, **2004**, 43, 7754-7761	3.9	31
79	Urethanes and polyurethanes based on oxypropylated cork: 1. Appraisal and reactivity of products. *Polymer International*, **2001**, 50, 1150-1155	3.3	31
78	BEHAVIOR OF EUCALYPTUS GLOBULUS LIGNIN DURING KRAFT PULPING. I. ANALYSIS BY CHEMICAL DEGRADATION METHODS. *Journal of Wood Chemistry and Technology*, **2002**, 22, 93-108	2	31
77	Lipophilic extractives from the bark of Eucalyptus grandis x globulus, a rich source of methyl morolate: Selective extraction with supercritical CO2. *Industrial Crops and Products*, **2013**, 43, 340-348	5.9	30
76	Surface Properties of Suberin. *Journal of Colloid and Interface Science*, **1997**, 187, 498-508	9.3	30
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74	Preparation and characterization of novel highly omniphobic cellulose fibers organic–inorganic hybrid materials. *Carbohydrate Polymers*, **2010**, 80, 1048-1056	10.3	29
73	Lignin Degradation in Oxygen Delignification Catalysed by [PMo7V5O40]8- Polyanion. Part II. Study on Lignin Monomeric Model Compounds. *Holzforschung*, **2000**, 54, 511-518	2	29
72	Spent coffee grounds as a renewable source for ecopolyols production. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1480-1488	3.5	28
71	Eucalyptus globulus Bark as Source of Tannin Extracts for Application in Leather industry. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 950-955	8.3	28
70	In situ synthesis of bacterial cellulose/polycaprolactone blends for hot pressing nanocomposite films production. *Carbohydrate Polymers*, **2015**, 132, 400-8	10.3	28
69	Synthesis of aliphatic suberin-like polyesters by ecofriendly catalytic systems. *High Performance Polymers*, **2012**, 24, 4-8	1.6	28
68	Chemical composition of the light petroleum extract of Hibiscus cannabinus bark and core. *Phytochemical Analysis*, **2000**, 11, 345-350	3.4	28
67	Lignin Degradation in Oxygen Delignification Catalysed by [PMo7V5O40]8- Polyanion. Part I. Study on Wood Lignin. *Holzforschung*, **2000**, 54, 381-389	2	28
66	Characterization of the Cork Surface by Inverse Gas Chromatography. *Journal of Colloid and Interface Science*, **1995**, 174, 246-249	9.3	28
65	Novel cellulose-based composites based on nanofibrillated plant and bacterial cellulose: recent advances at the University of Aveiro – a review. *Holzforschung*, **2013**, 67, 603-612	2	27

64	Measurement and modeling of supercritical fluid extraction curves of Eucalyptus globulus bark: Influence of the operating conditions upon yields and extract composition. *Journal of Supercritical Fluids*, **2012**, 72, 176-185	4.2	27
63	2D-NMR (HSQC) difference spectra between specifically 13C-enriched and unenriched protolignin of Ginkgo biloba obtained in the solution state of whole cell wall material. *Holzforschung*, **2009**, 63,	2	27
62	Electrospray tandem mass spectrometry of underivatised acetylated xylo-oligosaccharides. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 3589-99	2.2	27
61	Unveiling the chemistry behind the green synthesis of metal nanoparticles. *ChemSusChem*, **2014**, 7, 2704-31	8.1	26
60	Photodegradation of the fungicide thiram in aqueous solutions. Kinetic studies and identification of the photodegradation products by HPLC-MS/MS. *Chemosphere*, **2013**, 91, 993-1001	8.4	26
59	Suberin of potato (Solanum tuberosum var. Nikola): comparison of the effect of cutinase CcCut1 with chemical depolymerization. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 9016-27	5.7	25
58	Lipophilic Extractives in Eucalyptus globulus Kraft Pulps. Behavior during ECF Bleaching. *Journal of Wood Chemistry and Technology*, **2005**, 25, 67-80	2	24
57	Comparative study of lipophilic extractives of hardwoods and corresponding ECF bleached kraft pulps. *BioResources*, **2006**, 1, 3-17	1.3	24
56	Hydroperoxide production from linoleic acid by heterologous Gaeumannomyces graminis tritici lipoxygenase: Optimization and scale-up. *Chemical Engineering Journal*, **2013**, 217, 82-90	14.7	23
55	A study of the distribution of chitosan onto and within a paper sheet using a fluorescent chitosan derivative. *Carbohydrate Polymers*, **2009**, 78, 760-766	10.3	23
54	Bi-phobic cellulose fibers derivatives via surface trifluoropropanoylation. *Langmuir*, **2007**, 23, 10801-6	4	23
53	Spectral editing of 13C cp/MAS NMR spectra of complex systems: application to the structural characterisation of cork cell walls. *Solid State Nuclear Magnetic Resonance*, **2000**, 16, 109-21	3.1	22
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51	Identification of delta7 phytosterols and phytosteryl glucosides in the wood and bark of several Acacia species. *Lipids*, **2005**, 40, 317-22	1.6	21
50	Cork suberin as an additive in offset lithographic printing inks. *Industrial Crops and Products*, **2000**, 11, 63-71	5.9	21
49	Transition metal substituted polyoxotungstates for the oxygen delignification of kraft pulp. *Applied Catalysis A: General*, **2005**, 295, 134-141	5.1	20
48	Polyoxometalates as mediators in the laccase catalyzed delignification. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 16, 131-140		20
47	Screening of lipophilic and phenolic extractives from different morphological parts of Halimione portulacoides. *Industrial Crops and Products*, **2014**, 52, 373-379	5.9	19

46	Preparation and characterization of novel biodegradable composites based on acylated cellulose fibers and poly(ethylene sebacate). *Composites Science and Technology*, **2011**, 71, 1908-1913	8.6	19
45	Structural differentiation of uronosyl substitution patterns in acidic heteroxylans by electrospray tandem mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2004**, 15, 43-7	3.5	19
44	NEW LIPOPHILIC COMPONENTS OF PITCH DEPOSITS FROM AN EUCALYPTUS GLOBULUS ECF BLEACHED KRAFT PULP MILL. *Journal of Wood Chemistry and Technology*, **2002**, 22, 55-66	2	19
43	Chemical composition of oleo-gum-resin from Ferula gummosa. *Industrial Crops and Products*, **2011**, 33, 549-553	5.9	17
42	Bulk and surface composition of ECF bleached hardwood kraft pulp fibres. *Nordic Pulp and Paper Research Journal*, **2004**, 19, 513-520	1.1	17
41	Very high-resolution 1H MAS NMR of a natural polymeric material. *Solid State Nuclear Magnetic Resonance*, **1999**, 15, 59-67	3.1	17
40	Cloned Pseudomonas aeruginosa lipoxygenase as efficient approach for the clean conversion of linoleic acid into valuable hydroperoxides. *Chemical Engineering Journal*, **2013**, 231, 519-525	14.7	16
39	Demonstration of long-chain n-alkyl caffeates and delta7-steryl glucosides in the bark of Acacia species by gas chromatography-mass spectrometry. *Phytochemical Analysis*, **2007**, 18, 151-6	3.4	16
38	Chemicals Generated During Oxygen-Organosolv Pulping of Wood. *Journal of Wood Chemistry and Technology*, **1994**, 14, 383-402	2	16
37	Oxidized Derivatives of Lipophilic Extractives Formed during Hardwood Kraft Pulp Bleaching. *Holzforschung*, **2003**, 57, 503-512	2	15
36	Condensation Reactions of Lignin During Oxygen Delignification Under Acidic Conditions. *Journal of Wood Chemistry and Technology*, **1997**, 17, 41-55	2	14
35	Chemical composition of the essential oil distilled from the fruits of Eucalyptus globulus grown in Portugal. *Flavour and Fragrance Journal*, **2005**, 20, 407-409	2.5	14
34	Luminescent Transparent Composite Films Based on Lanthanopolyoxometalates and Filmogenic Polysaccharides. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1890-1896	2.3	13
33	Miscanthus x giganteus bark organosolv fractionation: fate of lipophilic components and formation of valuable phenolic byproducts. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 8279-85	5.7	13
32	Wood adhesives derived from alkaline extracts of maritime Pine bark: preparation, physical characteristics and bonding efficacy. *European Journal of Wood and Wood Products*, **2002**, 60, 303-310	2.1	13
31	The Organosolv Fractionation of Cork Components. *Holzforschung*, **2002**, 56, 135-142	2	12
30	An NMR microscopy study of water absorption in cork. *Journal of Materials Science*, **2000**, 35, 1891-1900	4.3	12
29	Analysis of linoleic acid hydroperoxides generated by biomimetic and enzymatic systems through an integrated methodology. *Industrial Crops and Products*, **2011**, 34, 1474-1481	5.9	10

28	Cytotoxic activity of lignans from Hibiscus cannabinus. *Fitoterapia*, **2007**, 78, 385-7	3.2	10
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