M Naceur Belgacem

List of Publications by Citations

239 papers	14,899 citations	62 h-index	115 g-index
251 ext. papers	16,471 ext. citations	5.7 avg, IF	6.9 L-index

#	Paper	IF	Citations
239	Production of cellulose nanofibrils: A review of recent advances. *Industrial Crops and Products*, **2016**, 93, 2-25	5.9	826
238	Furans in polymer chemistry. *Progress in Polymer Science*, **1997**, 22, 1203-1379	29.6	532
237	Short natural-fibre reinforced polyethylene and natural rubber composites: Effect of silane coupling agents and fibres loading. *Composites Science and Technology*, **2007**, 67, 1627-1639	8.6	477
236	Recent Catalytic Advances in the Chemistry of Substituted Furans from Carbohydrates and in the Ensuing Polymers. *Topics in Catalysis*, **2004**, 27, 11-30	2.3	477
235	Nanofibrillated Cellulose Surface Modification: A Review. *Materials*, **2013**, 6, 1745-1766	3.5	430
234	Cellulose whiskers reinforced polyvinyl alcohol copolymers nanocomposites. *European Polymer Journal*, **2008**, 44, 2489-2498	5.2	401
233	Cassava bagasse cellulose nanofibrils reinforced thermoplastic cassava starch. *Carbohydrate Polymers*, **2009**, 78, 422-431	10.3	315
232	An integrated process to produce vanillin and lignin-based polyurethanes from Kraft lignin. *Chemical Engineering Research and Design*, **2009**, 87, 1276-1292	5.5	314
231	Modification of cellulosic fibres with functionalised silanes: development of surface properties. *International Journal of Adhesion and Adhesives*, **2004**, 24, 43-54	3.4	286
230	The surface modification of cellulose fibres for use as reinforcing elements in composite materials. *Composite Interfaces*, **2005**, 12, 41-75	2.3	281
229	Recent advances in surface-modified cellulose nanofibrils. *Progress in Polymer Science*, **2019**, 88, 241-264	29.6	273
228	Crab shell chitin whiskers reinforced natural rubber nanocomposites. 3. Effect of chemical modification of chitin whiskers. *Biomacromolecules*, **2003**, 4, 1835-42	6.9	247
227	Interaction of Silane Coupling Agents with Cellulose. *Langmuir*, **2002**, 18, 3203-3208	4	235
226	Optimization Study of Lignin Oxypropylation in View of the Preparation of Polyurethane Rigid Foams. *Industrial & Engineering Chemistry Research*, **2009**, 48, 2583-2589	3.9	204
225	Chemical composition and pulping of date palm rachis and Posidonia oceanica--a comparison with other wood and non-wood fibre sources. *Bioresource Technology*, **2010**, 101, 775-80	11	196
224	Industrial and crop wastes: A new source for nanocellulose biorefinery. *Industrial Crops and Products*, **2016**, 93, 26-38	5.9	194
223	Surface characterization of cellulose fibres by XPS and inverse gas chromatography. *Cellulose*, **1995**, 2, 145-157	5.5	188

222	Starch nanocrystals with large chain surface modifications. *Langmuir*, **2006**, 22, 4804-10	4	185
221	Effect of corona modification on the mechanical properties of polypropylene/cellulose composites. *Journal of Applied Polymer Science*, **1994**, 53, 379-385	2.9	183
220	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
219	Kinetics of hydrolysis and self condensation reactions of silanes by NMR spectroscopy. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 312, 83-91	5.1	167
218	Silane adsorption onto cellulose fibers: hydrolysis and condensation reactions. *Journal of Colloid and Interface Science*, **2005**, 289, 249-61	9.3	164
217	Flexibility and color monitoring of cellulose nanocrystal iridescent solid films using anionic or neutral polymers. *ACS Applied Materials & Interfaces*, **2015**, 7, 4010-8	9.5	158
216	Chemical composition and pulping of banana pseudo-stems. *Industrial Crops and Products*, **2004**, 19, 147-154	3.9	155
215	Surface chemical modification of waxy maize starch nanocrystals. *Langmuir*, **2005**, 21, 2425-33	4	154
214	Extraction of cellulose whiskers from cassava bagasse and their applications as reinforcing agent in natural rubber. *Industrial Crops and Products*, **2010**, 32, 486-490	5.9	152
213	Modification of cellulose fibers with functionalized silanes: Effect of the fiber treatment on the mechanical performances of cellulose–thermoset composites. *Journal of Applied Polymer Science*, **2005**, 98, 974-984	2.9	152
212	Oxypropylation of Lignins and Preparation of Rigid Polyurethane Foams from the Ensuing Polyols. *Macromolecular Materials and Engineering*, **2005**, 290, 1009-1016	3.9	147
211	Cellulose modified fibres in cement based composites. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 2046-2053	8.4	145
210	Current Progress in Rheology of Cellulose Nanofibril Suspensions. *Biomacromolecules*, **2016**, 17, 2311-20	6.9	141
209	Studies of interactions between silane coupling agents and cellulose fibers with liquid and solid-state NMR. *Magnetic Resonance in Chemistry*, **2007**, 45, 473-83	2.1	127
208	Modification of cellulose fibres with organosilanes: Under what conditions does coupling occur?. *Journal of Colloid and Interface Science*, **2004**, 273, 505-11	9.3	125
207	Green process for chemical functionalization of nanocellulose with carboxylic acids. *Biomacromolecules*, **2014**, 15, 4551-60	6.9	119
206	Adsorption of a cationic surfactant onto cellulosic fibers I. Surface charge effects. *Langmuir*, **2005**, 21, 8106-13	4	116
205	Production of cellulose nanocrystals from sugarcane bagasse fibers and pith. *Industrial Crops and Products*, **2016**, 93, 48-57	5.9	115

204	Rheological properties of micro-/nanofibrillated cellulose suspensions: wall-slip and shear banding phenomena. *Carbohydrate Polymers*, **2014**, 112, 432-9	10.3	110
203	Surface esterification of cellulose fibres: Processing and characterisation of low-density polyethylene/cellulose fibres composites. *Composites Science and Technology*, **2008**, 68, 193-201	8.6	110
202	Subcritical Water: A Method for Green Production of Cellulose Nanocrystals. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2839-2846	8.3	108
201	Lignins as macromonomers for polyurethane synthesis: A comparative study on hydroxyl group determination. *Journal of Applied Polymer Science*, **2008**, 109, 3008-3017	2.9	108
200	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
199	Surface esterification of cellulose fibers: characterization by DRIFT and contact angle measurements. *Journal of Colloid and Interface Science*, **2006**, 295, 79-83	9.3	99
198	Isolation and characterization of cellulose nanocrystals from industrial by-products of Agave tequilana and barley. *Industrial Crops and Products*, **2014**, 62, 552-559	5.9	97
197	Morphological properties of nanofibrillated cellulose produced using wet grinding as an ultimate fibrillation process. *Journal of Materials Science*, **2015**, 50, 531-541	4.3	92
196	Urethanes and polyurethanes bearing furan moieties. 4. Synthesis, kinetics and characterization of linear polymers. *Macromolecules*, **1993**, 26, 6706-6717	5.5	91
195	Competition between hydrolysis and condensation reactions of trialkoxysilanes, as a function of the amount of water and the nature of the organic group. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2010**, 366, 147-154	5.1	90
194	Mechanical and thermal properties of Posidonia oceanica cellulose nanocrystal reinforced polymer. *Carbohydrate Polymers*, **2015**, 123, 99-104	10.3	88
193	Surface cationized cellulose nanofibrils for the production of contact active antimicrobial surfaces. *Carbohydrate Polymers*, **2016**, 135, 239-47	10.3	86
192	Water redispersible dried nanofibrillated cellulose by adding sodium chloride. *Biomacromolecules*, **2012**, 13, 4118-25	6.9	80
191	Cellulose surface grafting with polycaprolactone by heterogeneous click-chemistry. *European Polymer Journal*, **2008**, 44, 4074-4081	5.2	80
190	Preparation and characterization of new cellulose nanocrystals from marine biomass Posidonia oceanica. *Industrial Crops and Products*, **2015**, 72, 175-182	5.9	79
189	Acrylated vegetable oils as photocrosslinkable materials. *Journal of Applied Polymer Science*, **2006**, 99, 3218-3221	2.9	76
188	Surface functionalization of cellulose fibres and their incorporation in renewable polymeric matrices. *Composites Science and Technology*, **2008**, 68, 3193-3201	8.6	74
187	Surface grafting of cellulose nanocrystals with natural antimicrobial rosin mixture using a green process. *Carbohydrate Polymers*, **2016**, 137, 1-8	10.3	73

186	Pilot-Scale Twin Screw Extrusion and Chemical Pretreatment as an Energy-Efficient Method for the Production of Nanofibrillated Cellulose at High Solid Content. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 6524-6531	8.3	73
185	Mercerized linters cellulose: characterization and acetylation in N,N-dimethylacetamide/lithium chloride. *Carbohydrate Polymers*, **2006**, 63, 19-29	10.3	71
184	Effect of chemically modified nanofibrillated cellulose addition on the properties of fiber-based materials. *Industrial Crops and Products*, **2013**, 48, 98-105	5.9	69
183	Comparison of nanocrystals and nanofibers produced from shrimp shell □chitin: From energy production to material cytotoxicity and Pickering emulsion properties. *Carbohydrate Polymers*, **2018**, 196, 385-397	10.3	67
182	Processing and dimensional changes of cement based composites reinforced with surface-treated cellulose fibres. *Cement and Concrete Composites*, **2013**, 37, 68-75	8.6	66
181	Nisin anchored cellulose nanofibers for long term antimicrobial active food packaging. *RSC Advances*, **2016**, 6, 12422-12430	3.7	65
180	Surface Characterization of Polysaccharides, Lignins, Printing Ink Pigments, and Ink Fillers by Inverse Gas Chromatography. *Journal of Colloid and Interface Science*, **1996**, 182, 431-436	9.3	64
179	Hydrolysis-Condensation Kinetics of Different Silane Coupling Agents. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2011**, 186, 240-254	1	62
178	Kinetic study of the formation of lignin-based polyurethanes in bulk. *Reactive and Functional Polymers*, **2011**, 71, 863-869	4.6	62
177	Cynara cardunculus L.: chemical composition and soda-anthraquinone cooking. *Industrial Crops and Products*, **2000**, 12, 85-91	5.9	62
176	Nanofibrillated cellulose surface grafting in ionic liquid. *Soft Matter*, **2012**, 8, 8338	3.6	60
175	Surface modification of cellulose by PCL grafts. *Acta Materialia*, **2010**, 58, 792-801	8.4	60
174	Lignin-based rigid polyurethane foams with improved biodegradation. *Journal of Cellular Plastics*, **2014**, 50, 81-95	1.5	59
173	Highly Conducting Polypyrrole/Cellulose Nanocomposite Films with Enhanced Mechanical Properties. *Macromolecular Materials and Engineering*, **2010**, 295, 934-941	3.9	59
172	Bioelectrodes modified with chitosan for long-term energy supply from the body. *Energy and Environmental Science*, **2015**, 8, 1017-1026	35.4	58
171	Non leaching biomimetic antimicrobial surfaces via surface functionalisation of cellulose nanofibers with aminosilane. *Cellulose*, **2016**, 23, 795-810	5.5	58
170	Effect of nature of ceria support in CuO/CeO2 catalyst for PROX-CO reaction. *Fuel*, **2012**, 97, 245-252	7.1	57
169	Oxypropylation of cork and the use of the ensuing polyols in polyurethane formulations. *Biomacromolecules*, **2002**, 3, 57-62	6.9	57

168	Organization of aliphatic chains grafted on nanofibrillated cellulose and influence on final properties. *Cellulose*, **2012**, 19, 1957-1973	5.5	56
167	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
166	New lignocellulosic fibres-reinforced composite materials: A stepforward in the valorisation of the Posidonia oceanica balls. *Composites Science and Technology*, **2011**, 71, 1867-1872	8.6	55
165	Supramolecular aromatic interactions to enhance biodegradable film properties through incorporation of functionalized cellulose nanocrystals. *Composites Part A: Applied Science and Manufacturing*, **2016**, 83, 80-88	8.4	54
164	Heterogeneous flow kinematics of cellulose nanofibril suspensions under shear. *Soft Matter*, **2015**, 11, 4742-55	3.6	54
163	Characterization of three non-product materials from a bleached eucalyptus kraft pulp mill, in view of valorising them as a source of cellulose fibres. *Industrial Crops and Products*, **2008**, 27, 288-295	5.9	54
162	Surface functionalization of cellulose by grafting oligoether chains. *Materials Chemistry and Physics*, **2010**, 120, 438-445	4.4	53
161	Adsorption of cationic surfactants and subsequent adsolubilization of organic compounds onto cellulose fibers. *Colloid and Polymer Science*, **2004**, 283, 344-350	2.4	53
160	Preparation of nanocomposite dispersions based on cellulose whiskers and acrylic copolymer by miniemulsion polymerization: Effect of the silane content. *Polymer Engineering and Science*, **2011**, 51, 62-70	2.3	52
159	Recent Contributions to the Preparation of Polymers Derived from Renewable Resources. *Journal of Polymers and the Environment*, **2002**, 10, 105-114	4.5	52
158	Organosolv lignin as a filler in inks, varnishes and paints. *Industrial Crops and Products*, **2003**, 18, 145-153	5.9	51
157	Synthesis and characterization of bio-based furanic polyesters. *Journal of Polymer Research*, **2014**, 21, 1	2.7	47
156	Lignopolyurethanic materials based on oxypropylated sodium lignosulfonate and castor oil blends. *Industrial Crops and Products*, **2015**, 72, 77-86	5.9	46
155	Substitution of nanoclay in high gas barrier films of cellulose nanofibrils with cellulose nanocrystals and thermal treatment. *Cellulose*, **2015**, 22, 1227-1241	5.5	46
154	Natural copaiba oil as antibacterial agent for bio-based active packaging. *Industrial Crops and Products*, **2015**, 70, 134-141	5.9	45
153	Urethanes and polyurethanes from suberin: 1. Kinetic study. *Industrial Crops and Products*, **1997**, 6, 163-167	5.9	45
152	Materials from Vegetable Oils: Major Sources, Properties and Applications **2008**, 39-66		45
151	Rheological behaviour of polysaccharide aqueous solutions. *Polymer*, **2005**, 46, 12348-12358	3.9	45

150	Effect of variable aminoalkyl chains on chemical grafting of cellulose nanofiber and their antimicrobial activity. *Materials Science and Engineering C*, **2017**, 75, 760-768	8.3	44
149	Synthesis and characterization of cellulose whiskers/polymer nanocomposite dispersion by mini-emulsion polymerization. *Journal of Colloid and Interface Science*, **2011**, 363, 129-36	9.3	43
148	Cork suberin as a new source of chemicals: 2. Crystallinity, thermal and rheological properties. *Bioresource Technology*, **1998**, 63, 153-158	11	42
147	Designed cellulose nanocrystal surface properties for improving barrier properties in polylactide nanocomposites. *Carbohydrate Polymers*, **2018**, 183, 267-277	10.3	40
146	Cellulose-based nanocomposites prepared via mini-emulsion polymerization: Understanding the chemistry of the nanocellulose/matrix interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 448, 1-8	5.1	40
145	Melt rheology of nanocomposites based on acrylic copolymer and cellulose whiskers. *Composites Science and Technology*, **2011**, 71, 818-827	8.6	40
144	Antibacterial activity and biodegradability assessment of chemically grafted nanofibrillated cellulose. *Materials Science and Engineering C*, **2014**, 45, 477-83	8.3	39
143	Evaluation of the effects of chemical composition and refining treatments on the properties of nanofibrillated cellulose films from sugarcane bagasse. *Industrial Crops and Products*, **2016**, 91, 238-248	5.9	39
142	Modified cellulose fibres for adsorption of dissolved organic solutes. *Cellulose*, **2006**, 13, 81-94	5.5	38
141	Contact Antimicrobial Surface Obtained by Chemical Grafting of Microfibrillated Cellulose in Aqueous Solution Limiting Antibiotic Release. *ACS Applied Materials & Interfaces*, **2015**, 7, 18076-85	9.5	37
140	Impact of bleaching pine fibre on the fibre/cement interface. *Journal of Materials Science*, **2012**, 47, 4167-4177	4.5	37
139	Fungal degradation of lignin-based rigid polyurethane foams. *Polymer Degradation and Stability*, **2012**, 97, 2069-2076	4.7	37
138	Adsorption of silane onto cellulose fibers. II. The effect of pH on silane hydrolysis, condensation, and adsorption behavior. *Journal of Applied Polymer Science*, **2008**, 108, 1958-1968	2.9	37
137	Urethanes and polyurethanes from suberin 2: synthesis and characterization. *Industrial Crops and Products*, **1999**, 10, 1-10	5.9	37
136	Urethanes and polyurethanes bearing furan moieties: 5. Thermoplastic elastomers based on sequenced structures. *Polymer*, **1995**, 36, 1689-1696	3.9	37
135	Engineered pigments based on iridescent cellulose nanocrystal films. *Carbohydrate Polymers*, **2015**, 122, 367-75	10.3	35
134	Controlled release of carvacrol and curcumin: bio-based food packaging by synergism action of TEMPO-oxidized cellulose nanocrystals and cyclodextrin. *Cellulose*, **2018**, 25, 1249-1263	5.5	35
133	Hydrolysis-condensation kinetics of 3-(2-amino-ethylamino)propyl-trimethoxysilane. *Materials Science and Engineering C*, **2012**, 32, 487-493	8.3	35

132	Tunisian date palm rachis used as an alternative source of fibres for papermaking applications. *BioResources*, **2011**, 6, 265-281	1.3	35
131	Lignins as Components of Macromolecular Materials **2008**, 243-271		34
130	Melt extruded nanocomposites of polybutylene adipate-co-terephthalate (PBAT) with phenylbutyl isocyanate modified cellulose nanocrystals. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	34
129	Nanocomposites with functionalised polysaccharide nanocrystals through aqueous free radical polymerisation promoted by ozonolysis. *Carbohydrate Polymers*, **2016**, 135, 256-66	10.3	33
128	Effect of the oxidation treatment on the production of cellulose nanofiber suspensions from Posidonia oceanica: The rheological aspect. *Carbohydrate Polymers*, **2015**, 134, 664-72	10.3	33
127	Concentration effect of TEMPO-oxidized nanofibrillated cellulose aqueous suspensions on the flow instabilities and small-angle X-ray scattering structural characterization. *Cellulose*, **2015**, 22, 2197-2210	5.5	33
126	A study of the production of cellulose nanocrystals through subcritical water hydrolysis. *Industrial Crops and Products*, **2016**, 93, 88-95	5.9	33
125	Chitosan improves stability of carbon nanotube biocathodes for glucose biofuel cells. *Chemical Communications*, **2014**, 50, 14535-8	5.8	33
124	Recent Advances in Surface Chemical Modification of Cellulose Fibres. *Journal of Adhesion Science and Technology*, **2011**, 25, 661-684	2	33
123	Grafting of cellulose by fluorine-bearing silane coupling agents. *Materials Science and Engineering C*, **2010**, 30, 343-347	8.3	33
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120	Urethanes and polyurethanes bearing furan moieties3. Synthesis, characterization and comparative kinetics of the formation of diurethanes. *European Polymer Journal*, **1993**, 29, 1217-1224	5.2	32
119	Dwarf Cavendish as a Source of Natural Fibers in Poly(propylene)-Based Composites. *Macromolecular Materials and Engineering*, **2006**, 291, 16-26	3.9	31
118	Urethanes and polyurethanes based on oxypropylated cork: 1. Appraisal and reactivity of products. *Polymer International*, **2001**, 50, 1150-1155	3.3	31
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115	The oxypropylation of cork residues: preliminary results. *Bioresource Technology*, **2000**, 73, 187-189	11	30

114	Green chemicals and process to graft cellulose fibers. *Journal of Colloid and Interface Science*, **2009**, 330, 298-302	9.3	29
113	Different strategies for obtaining high opacity films of MFC with TiO2 pigments. *Cellulose*, **2013**, 20, 3025-3037	5.5	28
112	Characterization of the Cork Surface by Inverse Gas Chromatography. *Journal of Colloid and Interface Science*, **1995**, 174, 246-249	9.3	28
111	Surface Modification of Cellulose Fibres **2008**, 385-400		27
110	Grafting of Paper by Silane Coupling Agents Using Cold-Plasma Discharges. *Plasma Processes and Polymers*, **2008**, 5, 444-452	3.4	27
109	Nanocomposites of PBAT and cellulose nanocrystals modified by in situ polymerization and melt extrusion. *Polymer Engineering and Science*, **2016**, 56, 1339-1348	2.3	27
108	Micro-mechanics of electrostatically stabilized suspensions of cellulose nanofibrils under steady state shear flow. *Soft Matter*, **2016**, 12, 1721-35	3.6	26
107	Characterization of the effects of lignin and lignin complex particles as filler on a polystyrene film. *Materials Chemistry and Physics*, **2011**, 131, 348-357	4.4	26
106	The nanocellulose biorefinery: woody versus herbaceous agricultural wastes for NCC production. *Cellulose*, **2017**, 24, 693-704	5.5	25
105	Carboxymethylcellulose (CMC) as a model compound of cellulose fibers and polyamideamine epichlorohydrin (PAE)CMC interactions as a model of PAEfibers interactions of PAE-based wet strength papers. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	25
104	Isocyanate-treated cellulose pulp and its effect on the alkali resistance and performance of fiber cement composites. *Holzforschung*, **2013**, 67, 853-861	2	25
103	Cellulose nanocrystal surface functionalization for the controlled sorption of water and organic vapours. *Cellulose*, **2016**, 23, 2955-2970	5.5	25
102	One-step superhydrophobic coating using hydrophobized cellulose nanofibrils. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 544, 152-158	5.1	24
101	Sulfonation of polyester fabrics by gaseous sulfur oxide activated by UV irradiation. *Applied Surface Science*, **2012**, 258, 9737-9741	6.7	24
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98	Synthesis, characterization and photocross-linking of copolymers of furan and aliphatic hydroxyethylesters prepared by transesterification. *Polymer*, **2005**, 46, 5476-5483	3.9	24
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94	Production of fire-retardant phosphorylated cellulose fibrils by twin-screw extrusion with low energy consumption. *Cellulose*, **2019**, 26, 5635-5651	5.5	21
93	Valorisation of Vegetal Wastes as a Source of Cellulose and Cellulose Derivatives. *Journal of Polymers and the Environment*, **2011**, 19, 80-89	4.5	21
92	Performance of CuO CeO2 Catalysts with Low Copper Content in CO Preferential Oxidation Reaction. *Catalysis Letters*, **2011**, 141, 316-321	2.8	21
91	Polypyrrole (PPy) chemical synthesis with xylan in aqueous medium and production of highly conducting PPy/nanofibrillated cellulose films and coatings. *Cellulose*, **2011**, 18, 1455-1467	5.5	21
90	Furan Derivatives and Furan Chemistry at the Service of Macromolecular Materials **2008**, 115-152		21
89	Furan Chemistry at the Service of Functional Macromolecular Materials: The Reversible Diels-Alder Reaction. *ACS Symposium Series*, **2007**, 280-295	0.4	21
88	Cork suberin as an additive in offset lithographic printing inks. *Industrial Crops and Products*, **2000**, 11, 63-71	5.9	21
87	Screen-Printed Polyaniline-Based Electrodes for the Real-Time Monitoring of Loop-Mediated Isothermal Amplification Reactions. *Analytical Chemistry*, **2017**, 89, 10124-10128	7.8	20
86	Solvolysis Hydrolysis of N-bearing alkoxysilanes: Reactions studied with 29Si NMR. *Silicon Chemistry* , **2008**, 3, 335-350		20
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84	Reactions of cellulose and wood superficial hydroxy groups with organometallic compounds. *Polymer International*, **2004**, 53, 7-11	3.3	20
83	Cellulose-Based Composite Films. *Mechanics of Composite Materials*, **2001**, 37, 257-264	1.1	20
82	The surface chemistry of a nanocellulose drug carrier unravelled by MAS-DNP. *Chemical Science*, **2020**, 11, 3868-3877	9.4	19
81	UV irradiation-assisted grafting of poly(ethylene terephthalate) fabrics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 441, 606-613	5.1	18
80	Carboxymethylcellulose: A conductivity enhancer and film-forming agent for processable polypyrrole from aqueous medium. *Synthetic Metals*, **2011**, 161, 397-403	3.6	17
79	Biocomposites based on polycaprolactone reinforced with alfa fibre mats. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 742-747	8.4	16

78	Influence of ionic interactions between nanofibrillated cellulose and latex on the ensuing composite properties. *Composites Part B: Engineering*, **2016**, 85, 188-195	10	15
77	Elaboration of cellulose based nanobiocomposite: Effect of cellulose nanocrystals surface treatment and interface melting. *Industrial Crops and Products*, **2015**, 72, 7-15	5.9	15
76	Capillary Flow Resistors: Local and Global Resistors. *Langmuir*, **2016**, 32, 915-21	4	15
75	Modified Cellulose Fibers as Reinforcing Fillers for Macromolecular Matrices. *Macromolecular Symposia*, **2005**, 221, 257-270	0.8	15
74	Polymerization of glycidyl methacrylate from the surface of cellulose nanocrystals for the elaboration of PLA-based nanocomposites. *Carbohydrate Polymers*, **2020**, 234, 115899	10.3	15
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72	Hydrophobisation and densification of wood by different chemical treatments. *Holzforschung*, **2005** , 59, 389-396	2	14
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70	Synthesis and characterization of cellulose carbonate using greenchemistry: Surface modification of Avicel. *Carbohydrate Polymers*, **2017**, 163, 254-260	10.3	13
69	Spontaneous capillary flows in piecewise varying cross section microchannels. *Sensors and Actuators B: Chemical*, **2016**, 223, 868-877	8.5	13
68	Characterization of Commercial Polyvinylbutyrals. *International Journal of Polymer Analysis and Characterization*, **2013**, 18, 346-357	1.7	13
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66	Urethanes and polyurethanes bearing furan moieties2. comparative kinetics and mechanism of the formation of furanic and other monourethanes. *European Polymer Journal*, **1989**, 25, 1125-1130	5.2	13
65	On the origins of the elasticity of cellulose nanofiber nanocomposites and nanopapers: a micromechanical approach. *RSC Advances*, **2016**, 6, 47258-47271	3.7	13
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63	Hybrid Dendritic-Linear Copolymers: Synthesis and Reactivity. *Macromolecular Symposia*, **2006**, 245-246, 51-60	0.8	12
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