CITATION REPORT List of articles citing

Microfibrillated cellulose - its barrier properties and applications in cellulosic materials: a review

DOI: 10.1016/j.carbpol.2012.05.026 Carbohydrate Polymers, 2012, 90, 735-64.

Source: https://exaly.com/paper-pdf/53644216/citation-report.pdf

Version: 2024-04-17

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
1266	6 Rheological behavior of nanocellulose suspensions and self-assembly.		
1265	12 Conclusions, applications and likely future trends.		
1264	Stiff as a Board: Perspectives on the Crystalline Modulus of Cellulose. 2012 , 1, 1237-1239		41
1263	TEMPO-oxidized nanocellulose participating as crosslinking aid for alginate-based sponges. 2012 , 4, 494	8-59	225
1262	Preparation of Ultralong Cellulose Nanofibers and Optically Transparent Nanopapers Derived from Waste Corrugated Paper Pulp. 2012 , 8,		40
1261	Nanocellulose: a new ageless bionanomaterial. 2013 , 16, 220-227		955
1260	Non-ionic assembly of nanofibrillated cellulose and polyethylene glycol grafted carboxymethyl cellulose and the effect of aqueous lubrication in nanocomposite formation. 2013 , 9, 7448		33
1259	Transparent nanocellulosic multilayer thin films on polylactic acid with tunable gas barrier properties. 2013 , 5, 7352-9		115
1258	Effect of chemically modified nanofibrillated cellulose addition on the properties of fiber-based materials. 2013 , 48, 98-105		69
1257	Wetting and hydrophobic modification of cellulose surfaces for paper applications. 2013 , 48, 6455-6498		115
1256	Properties of novel polyvinyl alcohol/cellulose nanocrystals/silver nanoparticles blend membranes. <i>Carbohydrate Polymers</i> , 2013 , 98, 1573-7	10.3	52
1255	Pectin/carboxymethyl cellulose/microfibrillated cellulose composite scaffolds for tissue engineering. <i>Carbohydrate Polymers</i> , 2013 , 98, 877-85	10.3	167
1254	Titrimetric methods for the determination of surface and total charge of functionalized nanofibrillated/microfibrillated cellulose (NFC/MFC). 2013 , 20, 2887-2895		24
1253	Preparation of Microfibrillated Cellulose Composites for Sustained Release of H2O2or O2for Biomedical Applications. 2013 , 1, 1129-1134		37
1252	Physical and/or Chemical Compatibilization of Extruded Cellulose Nanocrystal Reinforced Polystyrene Nanocomposites. 2013 , 46, 5570-5583		168
1251	Aspergillus: Genomics of a Cosmopolitan Fungus. 2013 , 89-126		2
1250	Exploiting the nano-sized features of microfibrillated cellulose (MFC) for the development of controlled-release packaging. 2013 , 110, 208-16		46

1249	Bioactive cellulose nanofibrils for specific human IgG binding. 2013 , 14, 4161-8		56
1248	Comparative effect of mechanical beating and nanofibrillation of cellulose on paper properties made from bagasse and softwood pulps. <i>Carbohydrate Polymers</i> , 2013 , 97, 725-30	10.3	83
1247	Clean and reactive nanostructured cellulose surface. 2013 , 20, 983-990		22
1246	Comparative study of paper and nanopaper properties prepared from bacterial cellulose nanofibers and fibers/ground cellulose nanofibers of canola straw. 2013 , 43, 732-737		118
1245	Enhancement of mechanical properties of carbon fabric/epoxy composites using micro/nano-sized bamboo fibrils. 2013 , 47, 624-632		45
1244	Enhancing the barrier properties of paper board by a novel lignin coating. 2013, 50, 694-700		44
1243	Different strategies for obtaining high opacity films of MFC with TiO2 pigments. 2013, 20, 3025-3037		28
1242	A comparative study of cellulose nanofibrils disintegrated via multiple processing approaches. <i>Carbohydrate Polymers</i> , 2013 , 97, 226-34	10.3	197
1241	Rheological characterization of high concentrated MFC gel from kenaf unbleached pulp. 2013 , 20, 727-74	40	67
1240	Unexplored possibilities of all-polysaccharide composites. <i>Carbohydrate Polymers</i> , 2013 , 95, 697-715	10.3	80
1240	Unexplored possibilities of all-polysaccharide composites. <i>Carbohydrate Polymers</i> , 2013 , 95, 697-715 Recyclable organic solar cells on cellulose nanocrystal substrates. 2013 , 3, 1536	10.3	229
1239		10.3	
1239	Recyclable organic solar cells on cellulose nanocrystal substrates. 2013 , 3, 1536	10.3	229
1239	Recyclable organic solar cells on cellulose nanocrystal substrates. 2013 , 3, 1536 Selective permeation of hydrogen gas using cellulose nanofibril film. 2013 , 14, 1705-9 Microfibrillated cellulose from mangosteen (Garcinia mangostana L.) rind: Preparation,	10.3	229 54
1239 1238 1237	Recyclable organic solar cells on cellulose nanocrystal substrates. 2013 , 3, 1536 Selective permeation of hydrogen gas using cellulose nanofibril film. 2013 , 14, 1705-9 Microfibrillated cellulose from mangosteen (Garcinia mangostana L.) rind: Preparation, characterization, and evaluation as an emulsion stabilizer. 2013 , 32, 383-394 A fast method to produce strong NFC films as a platform for barrier and functional materials. 2013 ,	10.3	22954134
1239 1238 1237	Recyclable organic solar cells on cellulose nanocrystal substrates. 2013, 3, 1536 Selective permeation of hydrogen gas using cellulose nanofibril film. 2013, 14, 1705-9 Microfibrillated cellulose from mangosteen (Garcinia mangostana L.) rind: Preparation, characterization, and evaluation as an emulsion stabilizer. 2013, 32, 383-394 A fast method to produce strong NFC films as a platform for barrier and functional materials. 2013, 5, 4640-7	10.3	22954134221
1239 1238 1237 1236	Recyclable organic solar cells on cellulose nanocrystal substrates. 2013, 3, 1536 Selective permeation of hydrogen gas using cellulose nanofibril film. 2013, 14, 1705-9 Microfibrillated cellulose from mangosteen (Garcinia mangostana L.) rind: Preparation, characterization, and evaluation as an emulsion stabilizer. 2013, 32, 383-394 A fast method to produce strong NFC films as a platform for barrier and functional materials. 2013, 5, 4640-7 Functionalized Polymers from Lignocellulosic Biomass: State of the Art. 2013, 5, 600-642	(0.3	2295413422152

1231	Construction of high strength hollow fibers by self-assembly of a stiff polysaccharide with short branches in water. 2013 , 1, 4198	57
1230	Cellulose Nanofibrils. 2013, 1, 195-211	126
1229	Cellulose nanocrystal from pomelo (C. Grandis osbeck) albedo: Chemical, morphology and crystallinity evaluation. 2013 ,	3
1228	Co-Extrusion of Wood Flour/PP Composites with PP-Based Cap Layer Reinforced with Macro-and Micro-Sized Cellulosic Fibres. 2013 , 834-836, 203-210	2
1227	Barrier and mechanical properties of biodegradable poly(Eaprolactone)/cellophane multilayer film. 2013 , 130, 1805-1811	10
1226	Morphological and Thermal Investigations of Cellulosic Bionanocomposites. 2013, 411-436	5
1225	Adsorption of azo dyes on polymer materials. 2013 , 67, 881-900	59
1224	Fenton pre-treated microfibrillated cellulose evaluated as a strength enhancer in the middle ply of paperboard. 2014 , 29, 732-740	6
1223	Conversion of lignocellulosic biomass to nanocellulose: structure and chemical process. 2014 , 2014, 631013	235
1222	Cellulose nanofibrils: Challenges and possibilities as a paper additive or coating material 🖪 review. 2014 , 29, 156-166	148
1221	Cellulose from Lignocellulosic Waste. 2014 , 1-33	6
1220	Development, application and commercialization of transparent paper. 2014 , 1, 015004	42
1219	Hierarchical structure in microbial cellulose: what happens during the drying process. 2014 , 37, 129	6
1218	Printable and disposable supercapacitor from nanocellulose and carbon nanotubes. 2014,	15
1217	Three-dimensional microstructural properties of nanofibrillated cellulose films. 2014 , 15, 6423-40	25
1216	Mechanism for Tuning the Hydrophobicity of Microfibrillated Cellulose Films by Controlled Thermal Release of Encapsulated Wax. 2014 , 7, 7196-7216	10
1215	Cellulose nanocrystals and carboxymethyl cellulose from olive stones and their use to improve paper sheets properties. 2014 , 7, 261	19
1214	Technologies for Separation of Cellulose Nanofibers. 2014 , 53-71	2

1213	Cellulose Nanofibers and Their Use in Paper Industry. 2014, 207-232	16
1212	Nanocellulose Films and Barriers. 2014 , 213-229	7
1211	Efficient organic light-emitting diodes fabricated on cellulose nanocrystal substrates. 2014 , 105, 063305	28
1210	Facile route to produce chitin nanofibers as precursors for flexible and transparent gas barrier materials. 2014 , 15, 4614-20	50
1209	Significance of xylan on the stability and water interactions of cellulosic nanofibrils. 2014 , 85, 157-166	46
1208	Nanocellulose-Based Polymer Nanocomposites: An Introduction. 2014 , 1-15	5
1207	Cellulose Nano/Microfibers-Reinforced Polymer Composites: Processing Aspects. 2014 , 255-271	
1206	Characterization of bionanocomposite films prepared with agar and paper-mulberry pulp nanocellulose. <i>Carbohydrate Polymers</i> , 2014 , 110, 480-8	212
1205	More than meets the eye in bacterial cellulose: biosynthesis, bioprocessing, and applications in advanced fiber composites. 2014 , 14, 10-32	258
1204	Development of bacterial cellulose and poly(vinylidene fluoride) binary blend system: Structure and properties. 2014 , 237, 396-402	19
1203	Impact of different coating processes of microfibrillated cellulose on the mechanical and barrier properties of paper. 2014 , 49, 2879-2893	83
1202	Cellulose film regenerated from Styela clava tunics have biodegradability, toxicity and biocompatibility in the skin of SD rats. 2014 , 25, 1519-30	18
1201	Dispersion stability and aggregation behavior of TEMPO-oxidized cellulose nanofibrils in water as a function of salt addition. 2014 , 21, 1553-1559	87
1200	Paper-Based Anti-Reflection Coatings for Photovoltaics. 2014 , 4, 1301804	51
1199	Novel production method for in-situ hydrophobization of a microfibrillated cellulose network. 2014 , 120, 196-199	5
1198	Reactive coating of soybean oil-based polymer on nanofibrillated cellulose film for water vapor barrier packaging. <i>Carbohydrate Polymers</i> , 2014 , 111, 524-9	42
1197	Mechanical Performance and Transparency of Nanocellulose Reinforced Polymer Nanocomposites. 2014 , 299, 560-568	77
1196	The effect of Fenton chemistry on the properties of microfibrillated cellulose. 2014 , 21, 1489-1503	22

1195	Cellulose nanofibers produced from banana peel by chemical and enzymatic treatment. 2014 , 59, 1311-1318	171
1194	Tailoring porosities and electrochemical properties of composites composed of microfibrillated cellulose and polypyrrole. 2014 , 4, 8489-8497	15
1193	Modification of cellulose nanofibrils with luminescent carbon dots. 2014 , 15, 876-81	98
1192	Translational study between structure and biological response of nanocellulose from wood and green algae. 2014 , 4, 2892-2903	107
1191	Microfibrillated Cellulose. 2014 , 1-34	17
1190	Edible Coating and Film Materials: Carbohydrates. 2014 , 305-323	13
1189	Production of biocompatible and antimicrobial bacterial cellulose polymers functionalized by RGDC grafting groups and gentamicin. 2014 , 6, 1439-46	92
1188	Transparent paper: fabrications, properties, and device applications. 2014 , 7, 269-287	392
1187	Agriculture crop residues as a source for the production of nanofibrillated cellulose with low energy demand. 2014 , 21, 4247-4259	57
1186	Controlled release and long-term antibacterial activity of chlorhexidine digluconate through the nanoporous network of microfibrillated cellulose. 2014 , 21, 4429-4442	46
1185	Nanocellulose properties and applications in colloids and interfaces. 2014 , 19, 383-396	415
1184	Cooxidant-free TEMPO-mediated oxidation of highly crystalline nanocellulose in water. 2014 , 4, 52289-52298	48
1183	Microfibrillated cellulose (MFC): pullulan bionanocomposite films. 2014 , 21, 4323-4335	29
1182	Surface modification of cellulose microfibrils by periodate oxidation and subsequent reductive amination with benzylamine: a topochemical study. 2014 , 21, 4119-4133	61
1181	Highly Porous Paper Loading with Microfibrillated Cellulose by Spray Coating on Wet Substrates. 2014 , 53, 10982-10989	31
1180	Market and technical challenges and opportunities in the area of innovative new materials and composites based on nanocellulosics. 2014 , 29, 345-351	37
1179	Highly transparent paper with tunable haze for green electronics. 2014 , 7, 3313-3319	96
1178	UV-cured cellulose nanofiber composites with moisture durable oxygen barrier properties. 2014 , 131, n/a-n/a	21

1177	Homogeneous isolation of nanocelluloses by controlling the shearing force and pressure in microenvironment. <i>Carbohydrate Polymers</i> , 2014 , 113, 388-93	10.3	38
1176	Biocomposites of nanofibrillated cellulose, polypyrrole, and silver nanoparticles with electroconductive and antimicrobial properties. 2014 , 15, 3655-63		94
1175	Antibacterial activity and biodegradability assessment of chemically grafted nanofibrillated cellulose. 2014 , 45, 477-83		39
1174	Ductile all-cellulose nanocomposite films fabricated from core-shell structured cellulose nanofibrils. 2014 , 15, 2218-23		61
1173	On the use of nanocellulose as reinforcement in polymer matrix composites. 2014 , 105, 15-27		554
1172	Processing of nanostructured polymers and advanced polymeric based nanocomposites. 2014 , 85, 1-46		165
1171	The state of carboxymethylated nanofibrils after homogenization-aided dilution from concentrated suspensions: a rheological perspective. 2014 , 21, 2357-2368		56
1170	Comparison of nano- and microfibrillated cellulose films. 2014 , 21, 3443-3456		110
1169	Nanocrystalline cellulose acetate (NCCA)/graphene oxide (GO) nanocomposites with enhanced mechanical properties and barrier against water vapor. 2014 , 21, 3527-3539		70
1168	Biopolymers for surface engineering of paper-based products. 2014 , 21, 3145-3160		46
1168	Biopolymers for surface engineering of paper-based products. 2014 , 21, 3145-3160 Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. 2014 , 21, 2219-2231		46 21
	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of	10.3	21
1167	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. 2014 , 21, 2219-2231 Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate)	10.3	21
1167 1166	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. 2014 , 21, 2219-2231 Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate) composites. <i>Carbohydrate Polymers</i> , 2014 , 102, 537-42 A novel approach for the preparation of nanocrystalline cellulose by using phosphotungstic acid.		21
1167 1166 1165	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. 2014, 21, 2219-2231 Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate) composites. Carbohydrate Polymers, 2014, 102, 537-42 A novel approach for the preparation of nanocrystalline cellulose by using phosphotungstic acid. Carbohydrate Polymers, 2014, 110, 415-22 Mechanical performance of macrofibers of cellulose and chitin nanofibrils aligned by		21 51 159
1167 1166 1165 1164	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. 2014, 21, 2219-2231 Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate) composites. Carbohydrate Polymers, 2014, 102, 537-42 A novel approach for the preparation of nanocrystalline cellulose by using phosphotungstic acid. Carbohydrate Polymers, 2014, 110, 415-22 Mechanical performance of macrofibers of cellulose and chitin nanofibrils aligned by wet-stretching: a critical comparison. 2014, 15, 2709-17 Morphology and properties tuning of PLA/cellulose nanocrystals bio-nanocomposites by means of		21 51 159
1167 1166 1165 1164 1163	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. 2014, 21, 2219-2231 Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate) composites. Carbohydrate Polymers, 2014, 102, 537-42 A novel approach for the preparation of nanocrystalline cellulose by using phosphotungstic acid. Carbohydrate Polymers, 2014, 110, 415-22 Mechanical performance of macrofibers of cellulose and chitin nanofibrils aligned by wet-stretching: a critical comparison. 2014, 15, 2709-17 Morphology and properties tuning of PLA/cellulose nanocrystals bio-nanocomposites by means of reactive functionalization and blending with PVAc. 2014, 55, 3720-3728 Elaboration of a new antibacterial bio-nano-material for food-packaging by synergistic action of		21 51 159 124 143

1159	Thermal responsive hydrogels based on semi interpenetrating network of poly(NIPAm) and cellulose nanowhiskers. <i>Carbohydrate Polymers</i> , 2014 , 102, 159-66	10.3	97
1158	Microfibrillated cellulose coatings as new release systems for active packaging. <i>Carbohydrate Polymers</i> , 2014 , 103, 528-37	10.3	105
1157	In situ synthesis of MnO2 coated cellulose nanofibers hybrid for effective removal of methylene blue. <i>Carbohydrate Polymers</i> , 2014 , 110, 302-8	10.3	96
1156	Surface grafting of reduced graphene oxide using nanocrystalline cellulose via click reaction. 2014 , 16, 1		49
1155	Controlled release of chlorhexidine digluconate using Eyclodextrin and microfibrillated cellulose. 2014 , 121, 196-205		31
1154	Influence of the acid type in the production of chitosan films reinforced with bacterial nanocellulose. 2014 , 69, 208-13		45
1153	New insight into rheology and flow properties of complex fluids with Doppler optical coherence tomography. 2014 , 2, 27		14
1152	Improved barrier films of cross-linked cellulose nanofibrils: a microscopy study. 2014 , 2, 163-168		13
1151	Enhancing the Wood Glue Bond Using Cellulose Modified Epoxy. 2015 , 1122, 145-148		
1150	Intelligent Responsive Copolymers Based on Cellulose: Structure, Properties, and Applications. 2015 , 476-495		1
1149	Nanocellulose: Biomedical Nanomaterial Applications. 2015 , 5077-5100		1
1148	Cellulose Nanomaterials. 2015 , 1-22		
1147	Modication of Cellulose-Based Fibers by the Graft Copolymerization Method. 2015 , 216-229		1
1146	Doubly curved nanofiber-reinforced optically transparent composites. 2015 , 5, 16421		16
1145	Controlled Silylation of Nanofibrillated Cellulose in Water: Reinforcement of a Model Polydimethylsiloxane Network. 2015 , 8, 2681-90		43
1144	Wet/Dry Cycling Durability of Cement Mortar Composites Reinforced with Micro- and Nanoscale Cellulose Pulps. 2015 , 10,		15
1143	Can redispersible low-charged nanofibrillated cellulose be produced by the addition of carboxymethyl cellulose?. 2015 , 30, 568-577		10
1142	Characterization of Plant Nanofiber-Reinforced Epoxy Composites. 2015 , 10,		6

(2015-2015)

1141	Cellulose nanocrystals: synthesis, functional properties, and applications. 2015 , 8, 45-54		423
1140	Preparation of photocrosslinked fish elastin polypeptide/microfibrillated cellulose composite gels with elastic properties for biomaterial applications. 2015 , 13, 338-53		16
1139	Extraction of Nanocellulose from Raw Apple Stem. 2015 , 94, 787-793		21
1138	Effects of Two Different Cellulose Nanofiber Types on Properties of Poly(vinyl alcohol) Composite Films. 2015 , 2015, 1-10		21
1137	Effects of Soybean Oil Modified Cellulose Fibril and Organosilane Modified Cellulose Fibril on Crystallization of Polypropylene. 2015 , 2015, 1-9		4
1136	Rheological Properties and Processing of Polymer Blends with Micro- and Nanofibrillated Cellulose. 2015 , 259-291		1
1135	Physical and bio-composite properties of nanocrystalline cellulose from wood, cotton linters, cattail, and red algae. 2015 , 22, 1789-1798		43
1134	Easily deconstructed, high aspect ratio cellulose nanofibres from Triodia pungens; an abundant grass of Australia's arid zone. 2015 , 5, 32124-32132		49
1133	Flame retardant properties of plasma pre-treated/diamond-like carbon (DLC) coated cotton fabrics. 2015 , 22, 2797-2809		26
1132	Agricultural Biomass Based Potential Materials. 2015 ,		17
1132	Agricultural Biomass Based Potential Materials. 2015, Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate Polymers</i> , 2015, 130, 275-9	10.3	17 37
1131	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate</i>	10.3	
1131	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate Polymers</i> , 2015 , 130, 275-9	10.3	37
1131	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate Polymers</i> , 2015 , 130, 275-9 Graft modification of cellulose: Methods, properties and applications. 2015 , 70, A1-A16 Combined bleaching and hydrolysis for isolation of cellulose nanofibrils from waste sackcloth.		37
1131 1130 1129	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate Polymers</i> , 2015 , 130, 275-9 Graft modification of cellulose: Methods, properties and applications. 2015 , 70, A1-A16 Combined bleaching and hydrolysis for isolation of cellulose nanofibrils from waste sackcloth. <i>Carbohydrate Polymers</i> , 2015 , 131, 152-8		37 128 33
1131 1130 1129 1128	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate Polymers</i> , 2015 , 130, 275-9 Graft modification of cellulose: Methods, properties and applications. 2015 , 70, A1-A16 Combined bleaching and hydrolysis for isolation of cellulose nanofibrils from waste sackcloth. <i>Carbohydrate Polymers</i> , 2015 , 131, 152-8 Effect of Purification on Nano Microbial Cellulose Pellicle Properties. 2015 , 11, 206-211 Characterization of Pores in Dense Nanopapers and Nanofibrillated Cellulose Membranes: A Critical		37 128 33
1131 1130 1129 1128	Formulation and evaluation of nanocrystalline cellulose as a potential disintegrant. <i>Carbohydrate Polymers</i> , 2015 , 130, 275-9 Graft modification of cellulose: Methods, properties and applications. 2015 , 70, A1-A16 Combined bleaching and hydrolysis for isolation of cellulose nanofibrils from waste sackcloth. <i>Carbohydrate Polymers</i> , 2015 , 131, 152-8 Effect of Purification on Nano Microbial Cellulose Pellicle Properties. 2015 , 11, 206-211 Characterization of Pores in Dense Nanopapers and Nanofibrillated Cellulose Membranes: A Critical Assessment of Established Methods. 2015 , 7, 25884-97 Antibacterial cellulose membrane via one-step covalent immobilization of ammonium/amine		37 128 33 14 36

1123	Biobased polymers and cationic microfibrillated cellulose as retention and drainage aids in papermaking: Comparison between softwood and bagasse pulps. 2015 , 72, 34-45		30
1122	High quality fluorescent cellulose nanofibers from endemic rice husk: isolation and characterization. <i>Carbohydrate Polymers</i> , 2015 , 122, 308-13	10.3	56
1121	Adsorption of polyethylene glycol (PEG) onto cellulose nano-crystals to improve its dispersity. <i>Carbohydrate Polymers</i> , 2015 , 123, 157-63	10.3	87
1120	The Potential of NanoCellulose in the Packaging Field: A Review. 2015 , 28, 475-508		155
1119	Mechanical and thermal properties of Posidonia oceanica cellulose nanocrystal reinforced polymer. <i>Carbohydrate Polymers</i> , 2015 , 123, 99-104	10.3	88
1118	Cellulose nanofibrils: a rapid adsorbent for the removal of methylene blue. 2015 , 5, 18204-18212		65
1117	Surface properties of distinct nanofibrillated celluloses assessed by inverse gas chromatography. 2015 , 469, 36-41		16
1116	Surfactant free Pickering emulsion polymerization of styrene in w/o/w system using cellulose nanofibrils. 2015 , 64, 179-188		48
1115	Molecular mass and molecular-mass distribution of TEMPO-oxidized celluloses and TEMPO-oxidized cellulose nanofibrils. 2015 , 16, 675-81		60
1114	An improved X-ray diffraction method for cellulose crystallinity measurement. <i>Carbohydrate Polymers</i> , 2015 , 123, 476-81	10.3	121
1114		10.3	280
	Polymers, 2015, 123, 476-81 Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in	10.3	
1113	Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in polymers. 2015 , 75, 176-200 On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and	10.3	280
1113	Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in polymers. 2015, 75, 176-200 On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and mechanical treatment. 2015, 72, 28-33 Ultrasonic assisted cross-flow ultrafiltration of starch and cellulose nanocrystals suspensions:		280 60
1113 1112 1111	Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in polymers. 2015, 75, 176-200 On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and mechanical treatment. 2015, 72, 28-33 Ultrasonic assisted cross-flow ultrafiltration of starch and cellulose nanocrystals suspensions: characterization at multi-scales. <i>Carbohydrate Polymers</i> , 2015, 124, 66-76 Oriented clay nanopaper from biobased componentsmechanisms for superior fire protection properties. 2015, 7, 5847-56		280 60 15
1113 1112 1111 1110	Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in polymers. 2015, 75, 176-200 On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and mechanical treatment. 2015, 72, 28-33 Ultrasonic assisted cross-flow ultrafiltration of starch and cellulose nanocrystals suspensions: characterization at multi-scales. <i>Carbohydrate Polymers</i> , 2015, 124, 66-76 Oriented clay nanopaper from biobased componentsmechanisms for superior fire protection properties. 2015, 7, 5847-56		280 60 15 88
1113 1112 1111 1110 1109	Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in polymers. 2015, 75, 176-200 On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and mechanical treatment. 2015, 72, 28-33 Ultrasonic assisted cross-flow ultrafiltration of starch and cellulose nanocrystals suspensions: characterization at multi-scales. <i>Carbohydrate Polymers</i> , 2015, 124, 66-76 Oriented clay nanopaper from biobased componentsmechanisms for superior fire protection properties. 2015, 7, 5847-56 Production and properties of micro-cellulose reinforced thermoplastic starch. 2015, 74, 012008 Dimension change in microfibrillated cellulose from different cellulose sources by wet disk milling		280 60 15 88

1105	Fabrication of oleophobic paper with tunable hydrophilicity by treatment with non-fluorinated chemicals. 2015 , 3, 14651-14660	38
1104	Processing of wood for wood composites. 2015 , 27-45	5
1103	Synthesis and characterization of iron oxide-cellulose nanocomposite films. 2015,	
1102	Anomalous scaling law of strength and toughness of cellulose nanopaper. 2015 , 112, 8971-6	203
1101	Green in-situ synthesized silver nanoparticles embedded in bacterial cellulose nanopaper as a bionanocomposite plasmonic sensor. 2015 , 74, 353-9	95
1100	Water vapor transport properties of regenerated cellulose and nanofibrillated cellulose films. 2015 , 493, 46-57	104
1099	Isolation of cellulose nanofibrils from Triodia pungens via different mechanical methods. 2015 , 22, 2483-2498	67
1098	Regenerated cellulose/multiwalled carbon nanotube composite films with efficient electric heating performance. <i>Carbohydrate Polymers</i> , 2015 , 133, 456-63	32
1097	Thermal Stability of Oil Palm Empty Fruit Bunch (OPEFB) Nanocrystalline Cellulose: Effects of post-treatment of oven drying and solvent exchange techniques. 2015 , 622, 012025	9
1096	Bio-based Wood Polymer Nanocomposites: A Sustainable High-Performance Material for Future. 2015 , 233-257	3
1095	Charge density modification of carboxylated cellulose nanocrystals for stable silver nanoparticles suspension preparation. 2015 , 17, 1	44
1094	Development of poly(acrylic acid)/nanofibrillated cellulose superabsorbent composites by ultraviolet light induced polymerization. 2015 , 22, 2499-2506	25
1093	Microfluidized carboxymethyl cellulose modified pulp: a nanofibrillated cellulose system with some attractive properties. 2015 , 22, 1159-1173	31
1092	Use of nanofillers in wood coatings: a scientific review. 2015 , 12, 445-461	77
1091	Study on nanocellulose by high pressure homogenization in homogeneous isolation. 2015 , 16, 572-578	47
1090	Supramolecular Polymer Networks and Gels. 2015,	22
1089	Supramolecular Nanofibrillar Polymer Hydrogels. 2015 , 167-208	14
1088	Correlation between cellulose thin film supramolecular structures and interactions with water. 2015 , 11, 4273-82	28

1087	Enhanced materials from nature: nanocellulose from citrus waste. 2015 , 20, 5908-23	87
1086	Substitution of nanoclay in high gas barrier films of cellulose nanofibrils with cellulose nanocrystals and thermal treatment. 2015 , 22, 1227-1241	46
1085	Effect of pH and ionic strength on the electrical charge and particle size distribution of starch nanocrystal suspensions. 2015 , 67, 319-327	21
1084	Microfibrillated cellulose-SiO2 composite nanopapers produced by spray deposition. 2015 , 50, 4095-4103	17
1083	Life Cycle Assessment of a New Technology To Extract, Functionalize and Orient Cellulose Nanofibers from Food Waste. 2015 , 3, 1047-1055	51
1082	Life cycle assessment of cellulose nanofibrils production by mechanical treatment and two different pretreatment processes. 2015 , 49, 6881-90	120
1081	Cellulose nanomaterials in water treatment technologies. 2015 , 49, 5277-87	459
1080	Effect of crystallization conditions on the physical properties of a two-layer glassine paper/polyhydroxybutyrate structure. 2015 , 50, 3686-3696	8
1079	Bark derived submicron-sized and nano-sized cellulose fibers: From industrial waste to high performance materials. <i>Carbohydrate Polymers</i> , 2015 , 134, 258-66	36
1078	Enhanced homogeneity and interfacial compatibility in melt-extruded cellulose nano-fibers reinforced polyethylene via surface adsorption of poly(ethylene glycol)- block -poly(ethylene) amphiphiles. 2015 , 72, 270-281	43
1077	Subcritical Water: A Method for Green Production of Cellulose Nanocrystals. 2015 , 3, 2839-2846	108
1076	Experimental characterisation of nanofibrillated cellulose foams. 2015 , 22, 3739-3753	9
1075	Cell wall components in torrefied softwood and hardwood samples. 2015 , 116, 102-113	11
1074	Natural active molecule chemical grafting on the surface of microfibrillated cellulose for fabrication of contact active antimicrobial surfaces. 2015 , 78, 82-90	11
1073	Surface Chemistry of Nanocellulose Fibers Directs Monocyte/Macrophage Response. 2015, 16, 2787-95	46
1072	Transparent nanocellulose-pigment composite films. 2015 , 50, 7343-7352	35
1071	Macro, Micro and Nanoscale Bamboo Fiber as a Potential Reinforcement for Composites. 2015 , 668, 11-16	6
1070	Visualization of Nanofibrillar Cellulose in Biological Tissues Using a Biotinylated Carbohydrate Binding Module of 데,4-Glycanase. 2015 , 28, 1627-35	12

(2015-2015)

1069	Dewatering of MNFC containing microfibrils and microparticles from soybean hulls: mechanical and transport properties of hybrid films. 2015 , 22, 3919-3928	12
1068	Extraction and Characterization of Cellulosic Nanowhisker Obtained from Discarded Cotton Fibers. 2015 , 2, 1-7	28
1067	Utilization of eggshell waste as raw material for synthesis of hydroxyapatite. 2015 , 293, 2477-2483	22
1066	Cellophane and filter paper as cellulosic support for silver nanoparticles and its thermal decomposition catalysis. <i>Carbohydrate Polymers</i> , 2015 , 133, 277-83	8
1065	Photodiodes based on wood pulp fiber networks. 2015 , 22, 3425-3434	5
1064	Cellulose fatty acid esters as sustainable film materials leffect of side chain structure on barrier and mechanical properties. 2015 , 5, 80702-80708	20
1063	Nanocellulose-based Translucent Diffuser for Optoelectronic Device Applications with Dramatic Improvement of Light Coupling. 2015 , 7, 26860-4	58
1062	Nano-fibrillated cellulose-zeolites based new hybrid composites aerogels with super thermal insulating properties. 2015 , 65, 374-382	83
1061	Cellulose nanocrystal/polyolefin biocomposites prepared by solid-state shear pulverization: Superior dispersion leading to synergistic property enhancements. 2015 , 56, 464-475	75
1060	Isolation and characterization of crystalline, autofluorescent, cellulose nanocrystals from saw dust wastes. 2015 , 65, 550-555	36
1059	A review: potential usage of cellulose nanofibers (CNF) for enzyme immobilization via covalent interactions. 2015 , 175, 1817-42	82
1058	Rapid nanopaper production by spray deposition of concentrated microfibrillated cellulose slurries. 2015 , 72, 200-205	18
1057	Triticale crop residue: a cheap material for high performance nanofibrillated cellulose. 2015 , 5, 3141-3151	38
1056	Morphological Analyses of Some Micro- and Nanofibrils from Birch and Wheat Straw Sources. 2015 , 35, 102-112	7
1055	Amination and thiolation of chloroacetyl cellulose through reactive dissolution in N,N-dimethylformamide. <i>Carbohydrate Polymers</i> , 2015 , 116, 60-6	16
1054	Bionanocomposites based on gelatin matrix and nanocellulose. 2015 , 62, 1-9	79
1053	Biodegradability and Compostability of Nanofibrillar Cellulose-Based Products. 2015 , 23, 206-215	39
1052	Morphological properties of nanofibrillated cellulose produced using wet grinding as an ultimate fibrillation process. 2015 , 50, 531-541	92

1051	A critical review on cellulose: From fundamental to an approach on sensor technology. 2015 , 41, 402-412	173
1050	. 2016,	11
1049	. 2016,	1
1048	Enzyme-assisted Mechanical Fibrillation of Bleached Spruce Kraft Pulp for Producing Well-dispersed and Uniform-sized Cellulose Nanofibrils. 2016 , 11,	12
1047	Integrating a Biorefinery into an Operating Kraft Mill. 2016 , 11,	8
1046	Phosphorylated nanofibrillated cellulose: production and properties. 2016 , 31, 20-29	37
1045	Effect of Pulp Concentration during Cellulase Pretreatment on Microfibrillated Cellulose and Its Film Properties. 2016 , 11,	3
1044	. 2016,	1
1043	Mixing of cellulose nanofibrils and individual furnish components: Effects on paper properties and structure. 2016 , 31, 441-447	9
1042	The influence of fibrillation on the oxygen barrier properties of films from microfibrillated cellulose. 2016 , 31, 548-560	7
1041	Glycerine Treated Nanofibrillated Cellulose Composites. 2016 , 2016, 1-9	7
1040	Eggshell and Bacterial Cellulose Composite Membrane as Absorbent Material in Active Packaging. 2016 , 2016, 1-8	5
1039	Characterization of vegetable fibers and their application in cementitious composites. 2016 , 83-110	4
1038	The Influence of Nano-Fibrillated Cellulose as a Coating Component in Paper Coating. 2016 , 11,	10
1037	Polylactide/Montmorillonite Hybrid Latex as a Barrier Coating for Paper Applications. 2016 , 8,	12
1036	Characterization of Epoxy Composites Reinforced with Wax Encapsulated Microcrystalline Cellulose. 2016 , 8,	9
1035	An Overview of Cellulose-Degrading Enzymes and Their Applications in Textile Industry. 2016 , 165-175	1
1034	A comparative study of the properties of three nanofibrillated cellulose systems that have been produced at about the same energy consumption levels in the mechanical delamination step. 2016 , 31, 364-371	26

1033	Strong and electrically conductive nanopaper from cellulose nanofibers and polypyrrole. Carbohydrate Polymers, 2016 , 152, 361-369	44
1032	Crosslinking of fibers via azidellkyne click chemistry: Synthesis and characterization. 2016, 133,	10
1031	Preparation of cellulose nano-crystals through a sequential process of cellulase pretreatment and acid hydrolysis. 2016 , 23, 2409-2420	35
1030	Improvement of the Thermal Stability of TEMPO-Oxidized Cellulose Nanofibrils by Heat-Induced Conversion of Ionic Bonds to Amide Bonds. 2016 , 37, 1033-9	36
1029	Grinding process for the production of nanofibrillated cellulose based on unbleached and bleached bamboo organosolv pulp. 2016 , 23, 2971-2987	46
1028	Interaction between Nanofibrillated Cellulose with Guar Gum and Carboxy Methyl Cellulose in Low-Fat Mayonnaise. 2016 , 47, 403-412	25
1027	Nanocellulose induces cellulase production in Trichoderma reesei. 2016 , 51, 1452-1457	8
1026	Opportunities for Cellulose Nanomaterials in Packaging Films: A Review and Future Trends. 2016 , 4, 313-326	37
1025	Chapter 1 Bio-Based New Materials for Packaging Applications. 2016 , 1-18	
1024	Nanocellulose-Enabled Electronics, Energy Harvesting Devices, Smart Materials and Sensors: A Review. 2016 , 4, 297-312	64
1023	Rheology of cellulose nanofibers suspensions: Boundary driven flow. 2016 , 60, 1151-1159	67
1022	Drying techniques applied to cellulose nanofibers. 2016 , 35, 628-643	51
1021	A review on chitosan-cellulose blends and nanocellulose reinforced chitosan biocomposites: Properties and their applications. <i>Carbohydrate Polymers</i> , 2016 , 150, 216-26	305
1020	Solvent resistance of 2,2,6,6-tetramethylpiperidine-1-oxyl (TEMPO) treated cellulose nanofiber film for flexible electronics. 2016 , 23, 1979-1987	17
1019	Fabrication of microfibrillated cellulose gel from waste pulp sludge via mild maceration combined with mechanical shearing. 2016 , 23, 2573-2583	13
1018	Isolation and structural characterization of cellulose nanocrystals extracted from garlic straw residues. 2016 , 87, 287-296	161
1017	Nanostructured biocomposites from aliphatic polyesters and bacterial cellulose. 2016 , 93, 251-266	47
1016	Lignocellulosic nanostructures as reinforcement in extruded and solvent casted polymeric nanocomposites: an overview. 2016 , 80, 295-316	69

1015	Active bio-based food-packaging: Diffusion and release of active substances through and from cellulose nanofiber coating toward food-packaging design. <i>Carbohydrate Polymers</i> , 2016 , 149, 40-50	10.3	56
1014	Yielding and flow of cellulose microfibril dispersions in the presence of a charged polymer. 2016 , 12, 4739-44		20
1013	A facile route to prepare cellulose-based films. Carbohydrate Polymers, 2016, 149, 274-81	10.3	96
1012	Microfibrillated cellulose from agricultural residues. Part II: Strategic evaluation and market analysis for MFCE30. 2016 , 93, 175-185		13
1011	Microfibrillated cellulose from agricultural residues. Part I: Papermaking application. 2016 , 93, 161-174		57
1010	Pretreatment and conversion of lignocellulose biomass into valuable chemicals. 2016 , 6, 46834-46852		147
1009	Cellulose nanocrystals: a versatile nanoplatform for emerging biomedical applications. 2016 , 13, 1243-5	6	70
1008	Isolation of cellulose nanocrystals from grain straws and their use for the preparation of carboxymethyl cellulose-based nanocomposite films. <i>Carbohydrate Polymers</i> , 2016 , 150, 187-200	10.3	149
1007	Tuning the mechanical properties of cellulose nanofibrils reinforced polyvinyl alcohol composites via altering the cellulose polymorphs. 2016 , 6, 83356-83365		19
1006	Nanostructured Polymer Membranes: Applications, State-of-the-Art, New Challenges and Opportunities. 2016 , 1-25		1
1005	Natural Nanofibers in Polymer Membranes for Energy Applications. 2016 , 379-412		
1004	Production and Characterization of Laminates of Paper and Cellulose Nanofibrils. 2016, 8, 25520-8		24
1003	Plant Derived Polymers, Properties, Modification & Applications. 2016 , 119-184		2
1002	Remarkable increase of paper strength by combining enzymatic cellulose nanofibers in bulk and TEMPO-oxidized nanofibers as coating. 2016 , 23, 3939-3950		35
1001	Fibrous residues of palm oil as a source of green chemical building blocks. 2016 , 94, 480-489		16
1000	Reinforcement of hydroxypropylcellulose films by cellulose nanocrystals in the presence of surfactants. 2016 , 34, 1301-1310		5
999	Gel point as a measure of cellulose nanofibre quality and feedstock development with mechanical energy. 2016 , 23, 3051-3064		31
998	Surface hydrophobization of CNF films by roll-to-roll HMDSO plasma deposition. 2016 , 13, 1145-1149		8

997	Natural Polymer Drug Delivery Systems. 2016 ,	69
996	Effect of polyelectrolyte morphology and adsorption on the mechanism of nanocellulose flocculation. 2016 , 481, 158-67	35
995	Evaluation of the effects of chemical composition and refining treatments on the properties of nanofibrillated cellulose films from sugarcane bagasse. 2016 , 91, 238-248	39
994	Nanocomposites Based on Cellulose, Hemicelluloses, and Lignin. 2016 , 391-424	3
993	Bio-based Nanomaterials and Their Bionanocomposites. 2016 , 255-330	7
992	Nanofibrillated cellulose as an additive in papermaking process: A review. <i>Carbohydrate Polymers</i> , 2016, 154, 151-66	169
991	Outlook and Challenges of Nanotechnologies for Food Packaging. 2016 , 29, 615-648	65
990	Mechanical and antibacterial properties of a nanocellulose-polypyrrole multilayer composite. 2016 , 69, 977-84	43
989	Overview of Cellulose Nanomaterials, Their Capabilities and Applications. 2016 , 68, 2383-2394	125
988	Extreme Thermal Shielding Effects in Nanopaper Based on Multilayers of Aligned Clay Nanoplatelets in Cellulose Nanofiber Matrix. 2016 , 3, 1600551	20
987	Nanoclay Reinforced Polymer Composites. 2016 ,	24
986	Bioplastics and Bionanocomposites Based on Nanoclays and Other Nanofillers. 2016 , 115-139	O
985	Bamboo fiber at macro-, micro- and nanoscale for application as reinforcement. 2016 , 4, 41-52	9
984	Positive impact of cellulose nanofibrils on silver nanowire coatings for transparent conductive films. 2016 , 4, 10945-10954	34
983	Rheology and Processing of Nanocellulose, Nanochitin, and Nanostarch/Polymer Bionanocomposites. 2016 , 453-490	
982	Microcrystalline cellulose: Isolation, characterization and bio-composites application-A review. 2016 , 93, 789-804	328
981	Wood-Derived Materials for Green Electronics, Biological Devices, and Energy Applications. 2016 , 116, 9305-74	802
980	A review on nanocellulosic fibres as new material for sustainable packaging: Process and applications. 2016 , 64, 823-836	165

979	Paper reinforced with regenerated cellulose: a sustainable and fascinating material with good mechanical performance, barrier properties and shape retention in water. 2016 , 4, 17483-17490	27
978	Nanofibrillated Cellulose Templated Membranes with High Permeance. 2016 , 8, 33943-33954	10
977	Rheology of fibrillated cellulose suspensions after surface modification by organic nanoparticle deposits. 2016 , 51, 9830-9848	6
976	Nanocellulose Alignment and Electrical Properties Improvement. 2016 , 343-376	8
975	Physical and antibacterial properties of polyvinyl alcohol films reinforced with quaternized cellulose. 2016 , 133,	38
974	Nanocellulose and Nanocomposites. 2016 , 103-125	2
973	The feasibility of incorporating cellulose micro/nanofibers in papermaking processes: the relevance of enzymatic hydrolysis. 2016 , 23, 1433-1445	52
972	Nanoscale Materials in Targeted Drug Delivery, Theragnosis and Tissue Regeneration. 2016,	8
971	Fracture toughness and surface morphology of micro/nano sized fibrils-modified epoxy resin. 2016 , 58, 464-470	14
970	Carbon nanotube/cellulose papers with high performance in electric heating and electromagnetic interference shielding. 2016 , 131, 77-87	90
969	Current Progress in Rheology of Cellulose Nanofibril Suspensions. 2016 , 17, 2311-20	141
968	Industrial and crop wastes: A new source for nanocellulose biorefinery. 2016 , 93, 26-38	194
967	Use of nanocellulose in printed electronics: a review. 2016 , 8, 13131-54	299
966	Lignin-Based Thermoplastic Materials. 2016 , 9, 770-83	145
965	Materials Research for Manufacturing. 2016 ,	4
964	American Process: Production of Low Cost Nanocellulose for Renewable, Advanced Materials Applications. 2016 , 267-302	41
963	Nisin anchored cellulose nanofibers for long term antimicrobial active food packaging. 2016 , 6, 12422-12430	65
962	Enhanced thermal and mechanical properties of epoxy composites by addition of hyperbranched polyglycerol grown on cellulose fibers. 2016 , 23, 1	9

(2016-2016)

961	Atmospheric plasma assisted PLA/microfibrillated cellulose (MFC) multilayer biocomposite for sustainable barrier application. 2016 , 93, 235-243	35
960	Microcrystalline cellulose property\(\text{B}\)tructure effects in high-pressure fluidization: microfibril characteristics. 2016 , 51, 6019-6034	5
959	Transition from Bioinert to Bioactive Material by Tailoring the Biological Cell Response to Carboxylated Nanocellulose. 2016 , 17, 1224-33	33
958	Production of cellulose nanofibrils: A review of recent advances. 2016 , 93, 2-25	826
957	Microfibrillated cellulose and borax as mechanical, OEbarrier, and surface-modulating agents of pullulan biocomposite coatings on BOPP. <i>Carbohydrate Polymers</i> , 2016 , 143, 179-87	28
956	In-situ modification of cellulose nanofibrils by organosilanes during spray drying. 2016 , 93, 129-135	18
955	Bacterial Nanocellulose Aerogel Membranes: Novel High-Porosity Materials for Membrane Distillation. 2016 , 3, 85-91	61
954	Novel nanofibrillated cellulose/chitosan nanoparticles nanocomposites films and their use for paper coating. 2016 , 93, 219-226	71
953	Vegetable nanocellulose in food science: A review. 2016 , 57, 178-186	205
952	Direct Interfacial Modification of Nanocellulose Films for Thermoresponsive Membrane Templates. 2016 , 8, 2923-7	42
951	Nanocellulosefabrication, structure, properties, and application in the area of care and cure. 2016 , 243-288	5
950	Quaternized hydroxyethyl cellulose ethoxylate and membrane separation techniques for arsenic removal. 2016 , 57, 25161-25169	10
949	Influence of combined mechanical treatments on the morphology and structure of cellulose nanofibrils: Thermal and mechanical properties of the resulting films. 2016 , 85, 1-10	46
948	Towards natural-fibre-based thermoplastic films produced by conventional papermaking. 2016 , 18, 3324-333	3 29
947	The role of heteropolysaccharides in developing oxidized cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2016 , 144, 187-95	20
946	Roll-to-Roll Processed Cellulose Nanofiber Coatings. 2016 , 55, 3603-3613	72
945	Preparation and characterization of antibacterial films based on polyvinyl alcohol/quaternized cellulose. 2016 , 101, 90-98	27
944	Further characterization of cellulose nanocrystal (CNC) preparation from sulfuric acid hydrolysis of cotton fibers. 2016 , 23, 439-450	67

943	Clay nanopaper as multifunctional brick and mortar fire protection coating Wood case study. 2016 , 93, 357-363		66
942	Effect of ball milling on the production of nanocellulose using mild acid hydrolysis method. 2016 , 60, 617-622		56
941	Cellulose as an efficient matrix for lipase and transaminase immobilization. 2016 , 6, 6665-6671		23
940	Non leaching biomimetic antimicrobial surfaces via surface functionalisation of cellulose nanofibers with aminosilane. 2016 , 23, 795-810		58
939	Multi-scale cellulose based new bio-aerogel composites with thermal super-insulating and tunable mechanical properties. <i>Carbohydrate Polymers</i> , 2016 , 138, 335-48	10.3	79
938	Influence of microcrystalline cellulose on the microrheological property and freeze-thaw stability of soybean protein hydrolysate stabilized curcumin emulsion. 2016 , 66, 590-597		90
937	Catalysts based on TiO2 anchored with MoO3 or SO42Ifor conversion of cellulose into chemicals. 2016 , 6, 3137-3142		9
936	Enhancement of the fermentation process and properties of bacterial cellulose: a review. 2016 , 23, 57-5	€1	136
935	Multi-perspective application selection: a method to identify sustainable applications for new materials using the example of cellulose nanofiber reinforced composites. 2016 , 112, 1199-1210		20
934	Microcrystalline cellulose-carboxymethyl cellulose sodium as an effective dispersant for drug nanocrystals: A case study. <i>Carbohydrate Polymers</i> , 2016 , 136, 499-506	10.3	22
933	Processing of wood-based microfibrillated cellulose and nanofibrillated cellulose, and applications relating to papermaking: a review. 2016 , 23, 93-123		231
932	Cellulose nanocrystal reinforced oxidized natural rubber nanocomposites. <i>Carbohydrate Polymers</i> , 2016 , 137, 174-183	10.3	95
931	Surface grafting of cellulose nanocrystals with natural antimicrobial rosin mixture using a green process. <i>Carbohydrate Polymers</i> , 2016 , 137, 1-8	10.3	73
930	Surface modification of cellulose nanofibrils by maleated styrene block copolymer and their composite reinforcement application. 2016 , 23, 519-528		19
929	Surface cationized cellulose nanofibrils for the production of contact active antimicrobial surfaces. <i>Carbohydrate Polymers</i> , 2016 , 135, 239-47	10.3	86
928	Influence of ionic interactions between nanofibrillated cellulose and latex on the ensuing composite properties. 2016 , 85, 188-195		15
927	Dynamic-mechanical and thermomechanical properties of cellulose nanofiber/polyester resin composites. <i>Carbohydrate Polymers</i> , 2016 , 136, 955-63	10.3	71
926	An environmentally friendly method for the isolation of cellulose nano fibrils from banana rachis fibers. 2017 , 87, 81-90		9

925	Recent progress in cellulose nanocrystals: sources and production. 2017 , 9, 1763-1786	545
924	Hydrophobic kenaf nanocrystalline cellulose for the binding of curcumin. <i>Carbohydrate Polymers</i> , 2017, 163, 261-269	71
923	In vitro biological responses to nanofibrillated cellulose by human dermal, lung and immune cells: surface chemistry aspect. 2017 , 14, 1	75
922	Cellulose: To depolymerizelbr not to?. 2017 , 35, 251-266	64
921	Synthesis and characterization of cellulose carbonate using greenchemistry: Surface modification of Avicel. <i>Carbohydrate Polymers</i> , 2017 , 163, 254-260	13
920	Substrate role in coating of microfibrillated cellulose suspensions. 2017 , 24, 1247-1260	22
919	Preparation and Characterization for Sorgum-Based Micro-Fibrillated Celluloses. 2017, 371, 69-74	7
918	In situ TEMPO surface functionalization of nanocellulose membranes for enhanced adsorption of metal ions from aqueous medium. 2017 , 7, 5232-5241	95
917	Magnetic bionanocomposites from cellulose nanofibers: Fast, simple and effective production method. 2017 , 99, 29-36	18
916	Superhydrophobic and Superoleophobic Nanostructured Cellulose and Cellulose Composites. 2017 , 731-760	7
916 915	Superhydrophobic and Superoleophobic Nanostructured Cellulose and Cellulose Composites. 2017 , 731-760 Photocurable resin/nanocellulose composite coatings for wood protection. 2017 , 106, 128-136	7 45
		•
915	Photocurable resin/nanocellulose composite coatings for wood protection. 2017 , 106, 128-136	45
915	Photocurable resin/nanocellulose composite coatings for wood protection. 2017, 106, 128-136 Cellulosic Biocomposites: Potential Materials for Future. 2017, 69-100 A facile one-step way for extraction of nanocellulose with high yield by ball milling with ionic liquid.	45
915 914 913	Photocurable resin/nanocellulose composite coatings for wood protection. 2017, 106, 128-136 Cellulosic Biocomposites: Potential Materials for Future. 2017, 69-100 A facile one-step way for extraction of nanocellulose with high yield by ball milling with ionic liquid. 2017, 24, 2083-2093 Polypyrrole/nanocellulose composite for food preservation: Barrier and antioxidant	45 12 64
915 914 913 912	Photocurable resin/nanocellulose composite coatings for wood protection. 2017, 106, 128-136 Cellulosic Biocomposites: Potential Materials for Future. 2017, 69-100 A facile one-step way for extraction of nanocellulose with high yield by ball milling with ionic liquid. 2017, 24, 2083-2093 Polypyrrole/nanocellulose composite for food preservation: Barrier and antioxidant characterization. 2017, 12, 1-8	45 12 64 33
915 914 913 912 911	Photocurable resin/nanocellulose composite coatings for wood protection. 2017, 106, 128-136 Cellulosic Biocomposites: Potential Materials for Future. 2017, 69-100 A facile one-step way for extraction of nanocellulose with high yield by ball milling with ionic liquid. 2017, 24, 2083-2093 Polypyrrole/nanocellulose composite for food preservation: Barrier and antioxidant characterization. 2017, 12, 1-8 Characterization of Various Kinds of Nanocellulose. 2017, 51-100	45 12 64 33 18

907	Mechanical reinforcement of gelatin hydrogel with nanofiber cellulose as a function of percolation concentration. 2017 , 103, 226-233	49
906	Nanocellulose and Nanogels as Modern Drug Delivery Systems. 2017 , 209-269	6
905	Mechanical pretreatment of cellulose pulp to produce cellulose nanofibrils using a dry grinding method. 2017 , 104, 179-187	28
904	Tunable Structural and Mechanical Properties of Cellulose Nanofiber Substrates in Aqueous Conditions for Stem Cell Culture. 2017 , 18, 2034-2044	28
903	Hydrophobization and smoothing of cellulose nanofibril films by cellulose ester coatings. Carbohydrate Polymers, 2017 , 170, 160-165	23
902	Highly redispersible sugar beet nanofibers as reinforcement in bionanocomposites. 2017 , 24, 2177-2189	32
901	Cellulose nanofiber/carboxymethyl cellulose blends as an efficient coating to improve the structure and barrier properties of paperboard. 2017 , 24, 3001-3014	42
900	Cellulose nanocrystals as new bio-based coating layer for improving fiber-based mechanical and barrier properties. 2017 , 52, 3048-3061	48
899	Effect of cellulose microfibril (CMF) addition on strength properties of middle ply of board. 2017 , 24, 1041-1055	9
898	Reflection of circularly polarized light and the effect of particle distribution on circular dichroism in evaporation induced self-assembled cellulose nanocrystal thin films. 2017 , 7, 065308	5
897	Layer-by-layer assembled hydrophobic coatings for cellulose nanofibril films and textiles, made of polylysine and natural wax particles. <i>Carbohydrate Polymers</i> , 2017 , 173, 392-402	53
896	Bacterial Nanocellulose Applications for Tissue Engineering. 2017 , 47-66	2
895	Retention of metal and sulphate ions from acidic mining water by anionic nanofibrillated cellulose. 2017 , 599-600, 1608-1613	7
894	On the use of ion-crosslinked nanocellulose hydrogels for wound healing solutions: Physicochemical properties and application-oriented biocompatibility studies. <i>Carbohydrate</i> Polymers, 2017 , 174, 299-308	85
893	Understanding the mechanisms of oxygen diffusion through surface functionalized nanocellulose films. <i>Carbohydrate Polymers</i> , 2017 , 174, 309-317	23
892	Effect of enzyme beating on grinding method for microfibrillated cellulose preparation as a paper strength enhancer. 2017 , 24, 3503-3511	5
891	Nanocellulose in Sensing and Biosensing. 2017 , 29, 5426-5446	240
890	Continuous microfiber drawing by interfacial charge complexation between anionic cellulose nanofibers and cationic chitosan. 2017 , 5, 13098-13103	48

(2017-2017)

889	A new quality index for benchmarking of different cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2017 , 174, 318-329	20.3	94
888	Controllable synthesis of mesoporous titanosilicates for styrene oxidization using a nanocellulose template strategy. 2017 , 7, 19237-19242		16
887	Nanocellulose-based foams and aerogels: processing, properties, and applications. 2017 , 5, 16105-16117		335
886	Investigation of cross-linked PVA/starch biocomposites reinforced by cellulose nanofibrils isolated from aspen wood sawdust. 2017 , 24, 3323-3339		32
885	Polyethylene cellulose nanofibrils nanocomposites. <i>Carbohydrate Polymers</i> , 2017 , 173, 50-56	20.3	34
884	Conversion Economics of Forest Biomaterials: Risk and Financial Analysis of CNC Manufacturing. 2017 , 11, 682-700		62
883	Preparation and Properties of Nanocellulose from Organosolv Straw Pulp. 2017 , 12, 241		50
882	Nanofibrillation of deep eutectic solvent-treated paper and board cellulose pulps. <i>Carbohydrate Polymers</i> , 2017 , 169, 167-175	20.3	46
881	Adsorbent for resorcinol removal based on cellulose functionalized with magnetic poly(dopamine). 2017 , 99, 578-585		25
880	Swelling and mass transport properties of nanocellulose-HPMC composite films. 2017 , 122, 414-421		9
880 8 7 9	Swelling and mass transport properties of nanocellulose-HPMC composite films. 2017 , 122, 414-421 Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017 , 29, 68-75		9 51
879	Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017 , 29, 68-75 Improving the mechanical properties of CNF films by NMMO partial dissolution with hot calender activation. 2017 , 24, 1691-1704 Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food	20.3	51
8 ₇₉ 8 ₇ 8	Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017 , 29, 68-75 Improving the mechanical properties of CNF films by NMMO partial dissolution with hot calender activation. 2017 , 24, 1691-1704 Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food	20.3	51
879 878 877	Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017, 29, 68-75 Improving the mechanical properties of CNF films by NMMO partial dissolution with hot calender activation. 2017, 24, 1691-1704 Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food packaging. Carbohydrate Polymers, 2017, 168, 212-219 Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. 2017, 27, 1606755 Characterization and application of cellulose acetate synthesized from sugarcane bagasse.	20.3	51 12 41
879 878 877 876	Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017, 29, 68-75 Improving the mechanical properties of CNF films by NMMO partial dissolution with hot calender activation. 2017, 24, 1691-1704 Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food packaging. Carbohydrate Polymers, 2017, 168, 212-219 Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. 2017, 27, 1606755 Characterization and application of cellulose acetate synthesized from sugarcane bagasse.		51 12 41 66
879 878 877 876 875	Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017, 29, 68-75 Improving the mechanical properties of CNF films by NMMO partial dissolution with hot calender activation. 2017, 24, 1691-1704 Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food packaging. Carbohydrate Polymers, 2017, 168, 212-219 Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. 2017, 27, 1606755 Characterization and application of cellulose acetate synthesized from sugarcane bagasse. Carbohydrate Polymers, 2017, 167, 280-289		51 12 41 66 82
879 878 877 876 875	Aspects on nanofibrillated cellulose (NFC) processing, rheology and NFC-film properties. 2017, 29, 68-75 Improving the mechanical properties of CNF films by NMMO partial dissolution with hot calender activation. 2017, 24, 1691-1704 Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food packaging. Carbohydrate Polymers, 2017, 168, 212-219 Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. 2017, 27, 1606755 Characterization and application of cellulose acetate synthesized from sugarcane bagasse. Carbohydrate Polymers, 2017, 167, 280-289 Nanofibrillated cellulose: properties reinvestigated. 2017, 24, 1933-1945 Cationic flocculants derived from native cellulose: Preparation, biodegradability, and removal of		51 12 41 66 82 45

871	Drying of a cellulose II gel: effect of physical modification and redispersibility in water. 2017 , 24, 1199-1209	32
870	Microfibrilated cellulose as a model for soft colloid flocculation with polyelectrolytes. 2017 , 516, 325-335	14
869	Ecyclodextrin-grafted TEMPO-oxidized cellulose nanofibers for sustained release of essential oil. 2017 , 52, 3849-3861	23
868	Nanocellulose: Common Strategies for Processing of Nanocomposites. 2017 , 203-225	7
867	High Efficiency Conversion of Regenerated Cellulose Hydrogel Directly to Functionalized Cellulose Nanoparticles. 2017 , 38, 1700409	7
866	Recent developments on nanocellulose reinforced polymer nanocomposites: A review. 2017 , 132, 368-393	346
865	Effect of growth conditions on Eglucosidase production using leaves in a solid-state fungal bioprocess. 2017 , 7, 355	2
864	Analysis of rheology and wall depletion of microfibrillated cellulose suspension using optical coherence tomography. 2017 , 24, 4715-4728	17
863	Designing cellulosic and nanocellulosic sensors for interface with a protease sequestrant wound-dressing prototype: Implications of material selection for dressing and protease sensor design. 2017 , 32, 622-637	19
862	Interfacial Mechanisms of Water Vapor Sorption into Cellulose Nanofibril Films as Revealed by Quantitative Models. 2017 , 18, 2951-2958	35
861	Nanocelluloses: Science and Technology. 2017 , 1-24	
860	Production of Cellulose Nanofibrils and Their Application to Food: A Review. 2017 , 1-33	5
859	Propolis and chitosan as antimicrobial and polyphenols retainer for the development of paper based active packaging materials. 2017 , 14, 75-82	21
858	Fluorescence Sensing with Cellulose-Based Materials. 2017 , 6, 685-696	19
857	Preparation of Nanocellulose from Organosolv Straw Pulp Using Acid Hydrolysis and Ultrasound. 2017 , 497-505	1
856	Review of recent research on flexible multifunctional nanopapers. 2017 , 9, 15181-15205	99
855	Effect of micro/nano white bamboo fibrils on physical characteristics of epoxy resin reinforced composites. 2017 , 24, 5475-5486	32
854	Hemocompatibility of Ca -Crosslinked Nanocellulose Hydrogels: Toward Efficient Management of Hemostasis. 2017 , 17, 1700236	36

(2017-2017)

853	Nanocellulose as a sustainable biomass material: structure, properties, present status and future prospects in biomedical applications. 2017 , 9, 14758-14781	150
852	Synthesis of cellulose-L-tyrosine-SiO2/ZrO2 hybrid nanocomposites by sol-gel process and its potential. 2017 , 18, 1297-1306	7
851	Development of cellulose based light weight polymer composites. 2017,	17
850	Recent developments of cellulose materials for lithium-ion battery separators. 2017 , 24, 4103-4122	98
849	Nanocellulose based biosorbents for wastewater treatment: Study of isotherm, kinetic, thermodynamic and reusability. 2017 , 8, 134-149	54
848	Preparation and properties of microcrystalline cellulose/hydroxypropyl starch composite films. 2017 , 24, 4449-4459	18
847	Room-Temperature Fabrication of High-Performance Amorphous In-Ga-Zn-O/AlO Thin-Film Transistors on Ultrasmooth and Clear Nanopaper. 2017 , 9, 27792-27800	32
846	Mechanical fabrication of high-strength and redispersible wood nanofibers from unbleached groundwood pulp. 2017 , 24, 4173-4187	42
845	Natural Polymer-Based Nanocomposites: A Greener Approach for the Future. 2017 , 433-459	2
844	Influence of Natural Fillers Size and Shape into Mechanical and Barrier Properties of Biocomposites. 2017 , 459-487	O
843	Surface Functionalization Through Vapor-Phase-Assisted Surface Polymerization (VASP) on Natural Materials from Agricultural By-Products. 2017 , 355-377	
842	High-performance N-doped MWCNT/GO/cellulose hybrid composites for supercapacitor electrodes. 2017 , 7, 49799-49809	8
841	Cellulose Nanofibrils Films: Molecular Diffusion through Elongated Sub-Nano Cavities. 2017 , 121, 15437-15	447 18
840	Water sorption in microfibrillated cellulose (MFC): The effect of temperature and pretreatment. Carbohydrate Polymers, 2017, 174, 1201-1212	3 21
839	High aspect ratio nanocellulose from an extremophile spinifex grass by controlled acid hydrolysis. 2017 , 24, 3753-3766	24
838	Pilot-Scale Twin Screw Extrusion and Chemical Pretreatment as an Energy-Efficient Method for the Production of Nanofibrillated Cellulose at High Solid Content. 2017 , 5, 6524-6531	73
837	Relationship between processing history and functionality recovery after rehydration of dried cellulose-based suspensions: A critical review. 2017 , 246, 1-12	14
836	Enzyme-assisted mechanical production of microfibrillated cellulose from Northern Bleached Softwood Kraft pulp. 2017 , 24, 3929-3942	19

835	Biomass. 2017 , 3-42		17
834	Exploring crystalline structural variations of cellulose during pulp beating of tobacco stems. <i>Carbohydrate Polymers</i> , 2017 , 174, 146-153	10.3	24
833	Novel Functional Materials Based on Cellulose. 2017,		13
832	Comparison of performances of corn fiber plastic composites made from different parts of corn stalk. 2017 , 95, 521-527		57
831	Chemically extracted nanocellulose from sisal fibres by a simple and industrially relevant process. 2017 , 24, 107-118		30
830	Effects of Cellulose Nanofibers Filling and Palmitic Acid Emulsions Coating on the Physical Properties of Fish Gelatin Films. 2017 , 12, 23-32		26
829	Nanocellulose-Based Functional Materials. 2017 , 69-87		1
828	Copper(I) iodide supported on modified cellulose-based nano-magnetite composite as a biodegradable catalyst for the synthesis of 1,2,3-triazoles. 2017 , 31, e3660		30
827	Effect of reactive functionalization on properties and degradability of poly(lactic acid)/poly(vinyl acetate) nanocomposites with cellulose nanocrystals. 2017 , 110, 1-9		32
826	One-Pot Assembly of Microfibrillated Cellulose Reinforced PVABorax Hydrogels with Self-Healing and pH-Responsive Properties. 2017 , 5, 948-956		126
825	Nanocellulose-Polymer Composites for Applications in Food Packaging: Current Status, Future Prospects and Challenges. 2017 , 56, 805-823		68
824	Genotoxic and inflammatory effects of nanofibrillated cellulose in murine lungs. 2017 , 32, 23-31		48
823	Large-scale Production of Paper-based Li-ion Cells. 2017,		2
822	Agro-Industrial Residues and Microbial Enzymes. 2017 , 475-511		18
821	Application of fractionated bleached pulp fibres on sodium alginate films. 2017 , 95, 33-38		1
820	Controlled delivery systems of cellulose matrix for oxytetracycline: In vitro dissolution. 2017 , 3, 66		2
819	Aerogel preparation from short cellulose nanofiber of the Eucalyptus species. 2017 , 53, 503-512		9
818	Nanocellulose-based membranes for CO2 capture. 2017 , 522, 216-225		65

(2017-2017)

817	Properties of cellulose nanocrystals from oil palm trunk isolated by total chlorine free method. <i>Carbohydrate Polymers</i> , 2017 , 156, 409-416	10.3	34
816	Bionanomaterial from agricultural waste and its application. 2017 , 45-88		4
815	Biomass-based composites from different sources: Properties, characterization, and transforming biomass with ionic liquids. 2017 , 45-76		4
814	Nanocellulose. 2017 , 261-276		27
813	Magnetic ZIF-8/cellulose/Fe3O4 nanocomposite: preparation, characterization, and enzyme immobilization. 2017 , 4,		27
812	1 Development and applications of cellulose nanofibres based polymer nanocomposites. 2017 , 1-65		2
811	6. Rheological behavior of nanocellulose suspensions and self-assembly. 2017 , 287-350		1
810	Rubber nanocomposites with nanocellulose. 2017 , 463-494		9
809	Preparation and Properties of Nanocellulose Films. 2017, 69-81		
808	Nanostructurated materials for prolonged and safe food preservation. 2017 , 305-335		6
807	Cellulose Nanofibers Prepared via Pretreatment Based on Oxone Oxidation. 2017, 22,		3
806	Micro/Nano-fibrillated Cellulose from Cotton Linters as Strength Additive in Unbleached Kraft Paper: Experimental, Semi-empirical, and Mechanistic Studies. 2017 , 12,		10
805	Mechanical properties of hybrid polymer composite. 2017 , 83-113		12
804	An overview of nanoparticles role in the improvement of barrier properties of bioplastics for food packaging applications. 2017 , 391-424		20
803	Recent advances in nanocellulose-based polymer nanocomposites. 2017, 89-112		9
802	Valorization of Agricultural Residues for Cellulose Nanofibrils Production and Their Use in Nanocomposite Manufacturing. 2017 , 2017, 1-10		14
801	Applications. 2017 , 105-212		
800	Preparation and Barrier Properties of Nanocellulose / Layered Double Hydroxide Composite Film. 2017 , 13,		1

799	Nanofibrillated cellulose as an additive in papermaking process. 2017 , 153-173	3
798	Obten® de espumas flex®veis de poliuretano com celulose de Pinus elliottii. 2017 , 27, 27-34	6
797	Preparation of micro-fibrillated cellulose from sorghum fibre through alkalization and acetylation treatments. 2017 , 223, 012057	3
796	Barrier properties improvement using additives. 2017 , 465-495	4
795	Structure-Thermal Conductivity Tentative Correlation for Hybrid Aerogels Based on Nanofibrillated Cellulose-Mesoporous Silica Nanocomposite. 2017 ,	1
794	Synthesis and Characterization of Nanocrystalline Cellulose Derived from Pineapple Peel Residues. 2017 , 5, 271-279	16
793	Update on Bio-Refining and Nanocellulose Composite Materials Manufacturing. 2017, 10354,	1
792	Study of the structure/property relationship of nanomaterials for development of novel food packaging. 2017 , 265-294	1
791	Characterization of micro-fibrillated cellulose fiber suspension flow using multi scale velocity profile measurements. 2017 , 32, 473-482	9
790	Viability and properties of roll-to-roll coating of cellulose nanofibrils on recycled paperboard. 2017 , 32, 179-188	16
789	Microbial Paper: Cellulose Fiber-based Photo-Absorber Producing Hydrogen Gas from Acetate using Dry-Stabilized Rhodopseudomonas palustris. 2017 , 12,	8
788	The effects of different types of wet-end added microfibrillated celluloses on the properties of paper made from bleached kraft pulp. 2017 , 32, 336-345	1
787	Nanocellulose-tannin films: From trees to sustainable active packaging. 2018 , 184, 143-151	66
786	Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. 2018, 34, 3386-3394	13
7 ⁸ 5	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. 2018, 28, 1707491	96
7 ⁸ 4	Cellulose nanofiber board. <i>Carbohydrate Polymers</i> , 2018 , 187, 133-139	21
783	In-situ synthesis and structural characterization of cellulose-silica aerogels by one-step impregnation. 2018 , 488, 36-43	14
782	PMMA/TEMPO-oxidized cellulose nanofiber nanocomposite with improved mechanical properties, high transparency and tunable birefringence. 2018 , 25, 2393-2403	21

781	Colloidal Starch and Cellulose Nanocrystals Unite To Improve the Mechanical Properties of Paper: From Enhanced Coatings to Reinforced Nanocomposites. 2018 , 1, 1841-1852		20
7 ⁸ 0	Investigation of the tensile behavior of treated flax fibre bio-composites at ambient humidity. 2018 , 159, 119-126		13
779	The effect of surface modification of microfibrillated cellulose (MFC) by acid chlorides on the structural and thermomechanical properties of biopolyamide 4.10 nanocomposites. 2018 , 116, 97-108		18
778	Current characterization methods for cellulose nanomaterials. 2018 , 47, 2609-2679		436
777	Cellulose-based molecularly imprinted red-blood-cell-like microparticles for the selective capture of cortisol. <i>Carbohydrate Polymers</i> , 2018 , 193, 173-178	10.3	9
776	Poly(dimethyldiallylammonium chloride) (polyDADMAC) assisted cellulase pretreatment for microfibrillated cellulose (MFC) preparation and MFC analysis. 2018 , 72, 531-538		4
775	Cellulose nanofibers produced from various agricultural residues and their reinforcement effects in polymer nanocomposites. 2018 , 135, 46304		20
774	Continuous roll-to-roll fabrication of transparent cellulose nanocrystal (CNC) coatings with controlled anisotropy. 2018 , 25, 1769-1781		27
773	Direct mechanical production of wood nanofibers from raw wood microparticles with no chemical treatment. 2018 , 115, 26-31		29
772	Isolation and characterization of cellulose nanofibrils from Colombian Fique decortication by-products. <i>Carbohydrate Polymers</i> , 2018 , 189, 169-177	10.3	27
771	Copper-Coated Cellulose-Based Water Filters for Virus Retention. 2018, 3, 446-454		20
770	Microfibrillated cellulose addition improved the physicochemical and bioactive properties of biodegradable films based on soy protein and clove essential oil. 2018 , 79, 416-427		61
769	Improving the water resistance of nanocellulose-based films with polyhydroxyalkanoates processed by the electrospinning coating technique. 2018 , 25, 1291-1307		55
768	Cellulose nanocrystal (CNC)-inorganic hybrid systems: synthesis, properties and applications. 2018 , 6, 864-883		94
767	Lignocellulosic Composite Materials. 2018,		5
766	Lignocellulosic Fibres-Based Biocomposites Materials for Food Packaging. 2018 , 389-413		
765	One-step superhydrophobic coating using hydrophobized cellulose nanofibrils. 2018 , 544, 152-158		24

763	Water vapor mass transport across nanofibrillated cellulose films: effect of surface hydrophobization. 2018 , 25, 347-356	11
762	Current progress in production of biopolymeric materials based on cellulose, cellulose nanofibers, and cellulose derivatives 2018 , 8, 825-842	157
761	Smart functional polymer coatings for paper with anti-fouling properties. 2018 , 6, 830-843	16
760	Aqueous morpholine pre-treatment in cellulose nanofibril (CNF) production: comparison with carboxymethylation and TEMPO oxidisation pre-treatment methods. 2018 , 25, 1047-1064	37
759	Improved redispersibility of cellulose nanofibrils in water using maltodextrin as a green, easily removable and non-toxic additive. 2018 , 79, 30-39	28
758	Producing nanofibres from carrots with a chemical-free process. <i>Carbohydrate Polymers</i> , 2018 , 184, 307- 3 命务	29
757	Superhydrophobicity of nanofibrillated cellulose materials through polysiloxane nanofilaments. 2018 , 25, 1127-1146	13
756	Interactions between microfibrillar cellulose and carboxymethyl cellulose in an aqueous suspension. <i>Carbohydrate Polymers</i> , 2018 , 185, 112-119	19
755	Production of cellulose nanoparticles from blue agave waste treated with environmentally friendly processes. <i>Carbohydrate Polymers</i> , 2018 , 183, 294-302	51
754	Low-temperature atomic layer deposition of SiO/AlO multilayer structures constructed on self-standing films of cellulose nanofibrils. 2018 , 376,	8
753	Study on the electrical properties of nanopaper made from nanofibrillated cellulose for application in power equipment. 2018 , 25, 3449-3458	7
75 ²	Separation and characterization of cellulose I material from corn straw by low-cost polyhydric protic ionic liquids. 2018 , 25, 3241-3254	18
751	Nanoribbon network formation of enzymatically synthesized cellulose oligomers through dispersion stabilization of precursor particles. 2018 , 50, 799-804	12
75°	Regenerated cellulose from N-methylmorpholine N-oxide solutions as a coating agent for paper materials. 2018 , 25, 3595-3607	12
749	Utility of Blended Polymeric Formulations Containing Cellulose Nanofibrils for Encapsulation and Controlled Release of Sweet Orange Essential Oil. 2018 , 11, 1188-1198	27
748	Effect of chemical treatments on the mechanical properties of technical flax fibres with emphasis on stiffness improvement. 2018 , 160, 216-223	11
747	Cellulose nanofibres for photonics and plasmonics. 2018 , 12, 1-7	6
746	Developing fire-retardant and water-repellent bio-structural panels using nanocellulose. 2018 , 8, 257-265	1

745	Nanocellulose: a promising nanomaterial for advanced electrochemical energy storage. 2018 , 47, 2837-2	872	401
744	Isolation and characterization of nanocrystalline cellulose from roselle-derived microcrystalline cellulose. 2018 , 114, 54-63		104
743	Impact of delignification on mechanical, morphological, and thermal properties of wood sawdust reinforced unsaturated polyester composites. 2018 , 24, 185-191		6
742	A Review of Cellulose and Cellulose Blends for Preparation of Bio-derived and Conventional Membranes, Nanostructured Thin Films, and Composites. 2018 , 58, 102-163		50
741	Activated Carbon-Entrapped Microfibrilated Cellulose Films As An Effective Adsorbent For Removing Organic Dye From Aqueous Effluent. 2018 , 38, 15-27		8
740	Predicting the environmental impact of a future nanocellulose production at industrial scale: Application of the life cycle assessment scale-up framework. 2018 , 174, 283-295		93
739	Surface properties, thermal, and mechanical characteristics of poly(vinyl alcohol)Btarch-bacterial cellulose composite films. 2018 , 135, 45800		10
738	lonizing radiation processing and its potential in advancing biorefining and nanocellulose composite materials manufacturing. 2018 , 143, 47-52		11
737	Simultaneous extraction of lignin and cellulose nanofibrils from waste jute bags using one pot pre-treatment. 2018 , 107, 1294-1301		46
736	A new method to produce cellulose nanofibrils from microalgae and the measurement of their mechanical strength. <i>Carbohydrate Polymers</i> , 2018 , 180, 276-285	10.3	27
735	Assessing cellulose nanofiber production from olive tree pruning residue. <i>Carbohydrate Polymers</i> , 2018 , 179, 252-261	10.3	57
734	Transparent and Flexible Nacre-Like Hybrid Films of Aminoclays and Carboxylated Cellulose Nanofibrils. 2018 , 28, 1703277		41
733	Cellulose nanofibers produced from banana peel by chemical and mechanical treatments: Characterization and cytotoxicity assessment. 2018 , 75, 192-201		79
733 732	· · · · · · · · · · · · · · · · · · ·		79
	Characterization and cytotoxicity assessment. 2018 , 75, 192-201 Effect of nanoparticles size and polyelectrolyte on nanoparticles aggregation in a cellulose fibrous		
732	Characterization and cytotoxicity assessment. 2018, 75, 192-201 Effect of nanoparticles size and polyelectrolyte on nanoparticles aggregation in a cellulose fibrous matrix. 2018, 510, 190-198 Rod-Like Structure of Cotton Cellulose/Polyvinyl Alcohol/Tellurium Dioxide (TeO2) Hybrid		12
73 ²	Characterization and cytotoxicity assessment. 2018, 75, 192-201 Effect of nanoparticles size and polyelectrolyte on nanoparticles aggregation in a cellulose fibrous matrix. 2018, 510, 190-198 Rod-Like Structure of Cotton Cellulose/Polyvinyl Alcohol/Tellurium Dioxide (TeO2) Hybrid Nanocomposite and Antimicrobial Properties. 2018, 57, 1131-1138 Functionalized cellulose nanocrystals as reinforcement in biodegradable polymer nanocomposites. 2018, 39, E9-E29 Lignocellulose nanofibers prepared by ionic liquid pretreatment and subsequent mechanical	10.3	3

727	Adsorption behavior of optical brightening agent on microfibrillated cellulose studied through inverse liquid chromatography: The need to correct for axial dispersion effect. 2018 , 1533, 17-29	5
726	Physical and mechanical properties of a vegetable oil based nanocomposite. 2018 , 98, 116-124	14
725	Cellulose micro- and nanofibrils (CMNF) manufacturing - financial and risk assessment. 2018 , 12, 251-264	53
724	Using carboxylated cellulose nanofibers to enhance mechanical and barrier properties of collagen fiber film by electrostatic interaction. 2018 , 98, 3089-3097	16
723	Progress in the research and applications of natural fiber-reinforced polymer matrix composites. 2018 , 25, 835-846	24
722	Combined effect of sodium carboxymethyl cellulose, cellulose nanofibers and drainage aids in recycled paper production process. <i>Carbohydrate Polymers</i> , 2018 , 183, 201-206	12
721	Biopolymers from Wastes to High-Value Products in Biomedicine. 2018 , 1-44	13
720	Effect of humidity and nanocellulose content on Polyvinylamine-nanocellulose hybrid membranes for CO2 capture. 2018 , 548, 263-274	37
719	Towards a new generation of functional fiber-based packaging: cellulose nanofibers for improved barrier, mechanical and surface properties. 2018 , 25, 683-695	14
718	Ion-crosslinked wood-derived nanocellulose hydrogels with tunable antibacterial properties: Candidate materials for advanced wound care applications. <i>Carbohydrate Polymers</i> , 2018 , 181, 345-350 10.3	61
717	Multiple Factor Analysis on Preparation of Cellulose Nanofiber by Ball Milling from Softwood Pulp. 2018 , 13,	5
716	Isolation and Characterization of Microfibrillated Cellulose from Agro-industrial Soybean Residue (Okara). 2018 , 13,	9
715	Organic-Inorganic Hybrid Planarization and Water Vapor Barrier Coatings on Cellulose Nanofibrils Substrates. 2018 , 6, 571	5
714	. 2018,	8
713	Surface functionalisation of microfibrillated cellulose (MFC) of cocoa pod husk with EMethacryloxypropyltrimethoxysilane (MPS). 2018 , 5, 22000-22009	3
712	Production of nanocellulose from lime residues using chemical-free technology. 2018 , 5, 11095-11100	11
711	. 2018,	5
710	In Vitro and in Vivo Evaluation of the Wound Healing Properties of Nanofibrillated Cellulose Hydrogels 2018 , 1, 1853-1863	21

(2018-2018)

709	Effect of Drying Method and Number of Coating Layers on Mechanical and Barrier Properties. 2018 , 10,	10
708	Cellulose Nanofibers: Electrospinning and Nanocellulose Self-Assemblies. 2018 , 67-95	11
707	Therapeutic effects of a liquid bandage prepared with cellulose powders from Styela´clava tunics and Broussonetia´kazinoki bark: Healing of surgical wounds on the skin of Sprague Dawley rats. 2019 , 19, 452-460	1
706	A novel FC17/CESA4 mutation causes increased biomass saccharification and lodging resistance by remodeling cell wall in rice. 2018 , 11, 298	10
7°5	Cellulose Nanofibrils: From Hydrogels to Aerogels. 2018 , 277-339	7
704	Review of the Mechanistic Roles of Nanocellulose, Cellulosic Fibers, and Hydrophilic Cellulose Derivatives in Cellulose-Based Absorbents. 2018 , 1-31	
703	Highly transparent and impact-resistant PMMA nanocomposites reinforced by cellulose nanofibers of pineapple leaves modified by eco-friendly methods. 2018 , 12, 844-854	17
702	High-shear rate rheometry of micro-nanofibrillated cellulose (CMF/CNF) suspensions using rotational rheometer. 2018 , 25, 5535-5552	16
701	Examining the efficiency of mechanic/enzymatic pretreatments in micro/nanofibrillated cellulose production. 2018 , 0-0	4
700	Cellulose Nanomaterials-Binding Properties and Applications: A Review. 2018 , 23,	179
700 699	Cellulose Nanomaterials-Binding Properties and Applications: A Review. 2018, 23, Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. 2018, 25, 7127-7142	179 9
	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling	
699	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. 2018 , 25, 7127-7142	9
699 698	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. 2018 , 25, 7127-7142 Dimensionally stable cellulosic aerogels functionalized by titania. 2018 , 90, 1755-1771	9
699 698 697	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. 2018, 25, 7127-7142 Dimensionally stable cellulosic aerogels functionalized by titania. 2018, 90, 1755-1771 Cellulose defibrillation and functionalization by plasma in liquid treatment. 2018, 8, 15473 Bacterial cellulose nanofiber-based films incorporating gelatin hydrolysate from tilapia skin:	9 2 27
699698697696	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. 2018, 25, 7127-7142 Dimensionally stable cellulosic aerogels functionalized by titania. 2018, 90, 1755-1771 Cellulose defibrillation and functionalization by plasma in liquid treatment. 2018, 8, 15473 Bacterial cellulose nanofiber-based films incorporating gelatin hydrolysate from tilapia skin: production, characterization and cytotoxicity assessment. 2018, 25, 6011-6029 Layer-by-layer-assembled chitosan/phosphorylated cellulose nanofibrils as a bio-based and flame	9 2 27 11
699698697696695	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. 2018, 25, 7127-7142 Dimensionally stable cellulosic aerogels functionalized by titania. 2018, 90, 1755-1771 Cellulose defibrillation and functionalization by plasma in liquid treatment. 2018, 8, 15473 Bacterial cellulose nanofiber-based films incorporating gelatin hydrolysate from tilapia skin: production, characterization and cytotoxicity assessment. 2018, 25, 6011-6029 Layer-by-layer-assembled chitosan/phosphorylated cellulose nanofibrils as a bio-based and flame protecting nano-exoskeleton on PU foams. Carbohydrate Polymers, 2018, 202, 479-487 10.3	9 2 27 11 40

691	Enhanced properties of poly(vinyl alcohol) composite films filled with microfibrillated cellulose isolated from continuous steam explosion. 2018 , 22, 122-136	6
690	Cellulose Mineralization as a Route for Novel Functional Materials. 2018 , 28, 1705042	32
689	Effects of nanofiber cellulose on functional properties of heat-induced chicken salt-soluble meat protein gel enhanced with microbial transglutaminase. 2018 , 84, 1-8	27
688	Nanofibrillated cellulose causes acute pulmonary inflammation that subsides within a month. 2018 , 12, 729-746	26
687	Nanocellulose: Extraction and application. 2018 , 1, 32-43	350
686	Nanofibrillated Cellulose as Functional Ingredient in Emulsion-Type Meat Products. 2018 , 11, 1393-1401	12
685	Characterization of Nanofibrillated Cellulose Produced by Different Methods from Cabbage Outer Leaves. 2018 , 83, 1660-1667	7
684	Preserving Cellulose Structure: Delignified Wood Fibers for Paper Structures of High Strength and Transparency. 2018 , 19, 3020-3029	33
683	Synthesis and characterization of amine-modified spherical nanocellulose aerogels. 2018 , 53, 13304-13315	21
682	High strength cellulose/ATT composite films with good oxygen barrier property for sustainable packaging applications. 2018 , 25, 4145-4154	12
681	Polylactic Acid Biocomposites Reinforced with Nanocellulose Fibrils with High Lignin Content for Improved Mechanical, Thermal, and Barrier Properties. 2018 , 6, 10058-10068	81
680	Polymer Gels. 2018,	2
679	Incorporation of Filler/Additives in Polymer Gel for Advanced Application. 2018, 445-492	1
678	Polyelectrolyte complexes for assisting the application of lignocellulosic micro/nanofibers in papermaking. 2018 , 25, 6083-6092	7
677	Prospects for Replacement of Some Plastics in Packaging with Lignocellulose Materials: A Brief Review. 2018 , 13,	28
676	Deconstruction of cellulosic fibers to fibrils based on enzymatic pretreatment. 2018 , 267, 426-430	28
675	Nanocellulose for Industrial Use: Cellulose Nanofibers (CNF), Cellulose Nanocrystals (CNC), and Bacterial Cellulose (BC). 2018 , 74-126	65
674	Combining Cellulose and Cyclodextrins: Fascinating Designs for Materials and Pharmaceutics. 2018 , 6, 271	38

(2018-2018)

673	An approach for reinforcement of paper with high strength and barrier properties via coating regenerated cellulose. <i>Carbohydrate Polymers</i> , 2018 , 200, 100-105	3	20
672	Novel In-situ Precipitation Process to Engineer Low Permeability Porous Composite. 2018 , 8, 10747		7
671	Towards Tunable Protein-Carrier Wound Dressings Based on Nanocellulose Hydrogels Crosslinked with Calcium Ions. 2018 , 8,		15
670	An Understanding of Bacterial Cellulose and Its Potential Impact on Industrial Applications. 2018 , 437-458		2
669	Flexible Electronics Based on Micro/Nanostructured Paper. 2018, 30, e1801588		185
668	A General Aqueous Silanization Protocol to Introduce Vinyl, Mercapto or Azido Functionalities onto Cellulose Fibers and Nanocelluloses. 2018 , 23,		21
667	Nanocellulose-polypyrrole-coated paperboard for food packaging application. 2018 , 123, 128-133		24
666	Comparative properties of nanofibers produced using unbleached and bleached wheat straw pulps. 2018 , 33, 439-447		1
665	Continuous roll-to-roll coating of cellulose nanocrystals onto paperboard. 2018, 25, 6055-6069		26
664	Encapsulation of vitamin D3 in pickering emulsions stabilized by nanofibrillated mangosteen cellulose: Impact on in vitro digestion and bioaccessibility. 2018 , 83, 153-164		117
663	Oils sorption on hydrophobic nanocellulose aerogel obtained from the wood furniture industry waste. 2018 , 25, 3105-3119		29
662	Current Challenges in Melt Extrusion of Cellulose-Based Nanocomposites. 2018 , 137-152		1
661	Periodate Oxidation Followed by NaBH Reduction Converts Microfibrillated Cellulose into Sterically Stabilized Neutral Cellulose Nanocrystal Suspensions. 2018 , 34, 11066-11075		22
660	High-Pressure Microfluidization as a Green Tool for Optimizing the Mechanical Performance of All-Cellulose Composites. 2018 , 6, 12727-12735		10
659	Spinning of Cellulose Nanofibrils. 2018 , 153-169		1
658	Effect of Microfibrillated Cellulose on Microstructure and Properties of Poly(vinyl alcohol) Foams. 2018 , 10,		10
657	Cellulose-Based Nanosupports for Enzyme Immobilization. 2018 , 1-19		1
656	MORPHOLOGICAL, PHYSICAL AND THERMAL CHARACTERIZATION OF MICROFIBRILLATED CELLULOSE. 2018 , 42,		5

655	Cellulose and nanocellulose-based flexible-hybrid printed electronics and conductive composites - A review. <i>Carbohydrate Polymers</i> , 2018 , 198, 249-260	101
654	Use of lignocellulosic materials and 3D printing for the development of structured monolithic carbon materials. 2018 , 149, 206-215	15
653	Application of cellulose nanofibril (CNF) as coating on paperboard at moderate solids content and high coating speed using blade coater. 2018 , 122, 207-218	32
652	Lignocellulosic-Based Nanostructures and Their Use in Food Packaging. 2018 , 47-69	3
651	Lignocellulosic Materials and Their Use in Bio-based Packaging. 2018,	8
650	Lignocellulosic Materials: Sources and Processing Technologies. 2018, 13-33	3
649	Functional Properties of Lignocellulosic Materials. 2018 , 35-47	1
648	Use of Lignocellulosic Materials in Bio-based Packaging. 2018 , 65-85	4
647	Emerging role of nanobiocatalysts in hydrolysis of lignocellulosic biomass leading to sustainable bioethanol production. 2019 , 61, 1-26	52
646	Fabrication and characterization of Chinese giant salamander skin composite collagen sponge as a high-strength rapid hemostatic material. 2018 , 29, 1933-1948	7
645	Nanobiopolymers Fabrication and Their Life Cycle Assessments. 2019 , 14, e1700754	18
644	Current State and New Trends in the Use of Cellulose Nanomaterials for Wastewater Treatment. 2019 , 20, 573-597	146
643	Nanocellulose-Polymer Composites: Novel Materials for Food Packaging Applications. 2019 , 553-599	7
642	Cellulose nanofibrils prepared by gentle drying methods reveal the limits of helium ion microscopy imaging 2019 , 9, 15668-15677	10
641	Smart microfibrillated cellulose as swab sponge-like aerogel for real-time colorimetric naked-eye sweat monitoring. 2019 , 205, 120166	45
640	Natural polymers: biomaterials for skin scaffolds. 2019 , 151-192	7
639	Cellulose nanofibrils extracted from fique fibers as bio-based cement additive. 2019 , 235, 1540-1548	26
638	Composites of nanofibrillated cellulose with clay minerals: A review. 2019 , 272, 101994	39

637	Curaua cellulose sheets dip coated with micro and nano carnauba wax emulsions. 2019 , 26, 7983-7993	12
636	Lytic polysaccharide monooxygenases (LPMOs) facilitate cellulose nanofibrils production. 2019 , 12, 156	37
635	Assessing the enzymatic effects of cellulases and LPMO in improving mechanical fibrillation of cotton linters. 2019 , 12, 161	17
634	Application of Biodegradable and Biocompatible Nanocomposites in Electronics: Current Status and Future Directions. 2019 , 9,	52
633	L. Miller (Palma Forrageira) as an Alternative Source of Cellulose for Production of Pharmaceutical Dosage Forms and Biomaterials: Extraction and Characterization. 2019 , 11,	9
632	Properties of biobased packaging material. 2019 , 25-111	1
631	Cellulose Nanofibril (CNF) Films and Xylan from Hot Water Extracted Birch Kraft Pulps. 2019 , 9, 3436	9
630	Natural Polysaccharide Nanomaterials: An Overview of Their Immunological Properties. 2019 , 20,	96
629	Comparison of mixed enzymatic pretreatment and post-treatment for enhancing the cellulose nanofibrillation efficiency. 2019 , 293, 122171	30
628	Chemically purified cellulose and its nanocrystals from sugarcane baggase: isolation and characterization. 2019 , 5, e02635	15
628 627		15
	characterization. 2019 , 5, e02635	
627	characterization. 2019 , 5, e02635 . 2019 ,	
627 626	characterization. 2019, 5, e02635 . 2019, Advanced Functional Materials from Nanopolysaccharides. 2019, Data on a computationally efficient approximation of part-powder conduction as surface free	17 7
627 626 625	characterization. 2019, 5, e02635 . 2019, Advanced Functional Materials from Nanopolysaccharides. 2019, Data on a computationally efficient approximation of part-powder conduction as surface free convection in powder bed fusion process modelling. 2019, 27, 104559 Influence of Different Pretreatments on the Antibacterial Properties of Chitosan Functionalized	17 7 4
627626625624	characterization. 2019, 5, e02635 . 2019, Advanced Functional Materials from Nanopolysaccharides. 2019, Data on a computationally efficient approximation of part-powder conduction as surface free convection in powder bed fusion process modelling. 2019, 27, 104559 Influence of Different Pretreatments on the Antibacterial Properties of Chitosan Functionalized Viscose Fabric: TEMPO Oxidation and Coating with TEMPO Oxidized Cellulose Nanofibrils. 2019, 12, Nanocellulose isolation characterization and applications: a journey from non-remedial to	17 7 4
627 626 625 624	characterization. 2019, 5, e02635 . 2019, Advanced Functional Materials from Nanopolysaccharides. 2019, Data on a computationally efficient approximation of part-powder conduction as surface free convection in powder bed fusion process modelling. 2019, 27, 104559 Influence of Different Pretreatments on the Antibacterial Properties of Chitosan Functionalized Viscose Fabric: TEMPO Oxidation and Coating with TEMPO Oxidized Cellulose Nanofibrils. 2019, 12, Nanocellulose isolation characterization and applications: a journey from non-remedial to biomedical claims. 2019, 2, 187-212 Polylactic acid-lauryl functionalized nanocellulose nanocomposites: Microstructural, thermo-mechanical and gas transport properties. 2019, 13, 858-876	17 7 4 11 21

619	Proton Conductivity Improvement Effect of Cellulose on SPEEKK Based PEM. 2019 , 35, 916-923		1
618	Cellulose nanofibrils for biomaterial applications. 2019 , 16, 1959-1968		13
617	Barrier properties of cellulose nanofiber film as an external layer of particleboard. 2019 , 21, 2073-2079		5
616	Influence of chitosan addition on the mechanical and antibacterial properties of carrot cellulose nanofibre film. 2019 , 26, 9613-9629		27
615	Effect of foaming on mechanical properties of microfibrillated cellulose-based porous solids. 2019 , 26, 2487-2497		2
614	Lignocellulosic biomass for bioethanol: an overview on pretreatment, hydrolysis and fermentation processes. 2019 , 34, 57-68		57
613	Extraction of Cellulose Nanofibers and Their Eco/Friendly Polymer Composites. 2019, 37-64		8
612	Repeated Utilization of Ionic Liquid to Extract Lipid from Algal Biomass. 2019 , 2019, 1-7		12
611	Nanocellulose in the Paper Making. 2019 , 1027-1066		6
610	Lignocellulosic materials as novel carriers, also at nanoscale, of organic active principles for agri-food applications. 2019 , 161-178		1
609	Cationic cellulose nanofibers as sustainable flocculant and retention aid for reconstituted tobacco sheet with high performance. <i>Carbohydrate Polymers</i> , 2019 , 210, 372-378	10.3	10
608	Processing, Characterization and Application of Micro and Nanocellulose Based Environmentally Friendly Polymer Composites. 2019 , 1-35		4
607	Effect of moisture content on thermal and water absorption properties of microfibrillar cellulose with polymeric additives. <i>Carbohydrate Polymers</i> , 2019 , 211, 91-99	10.3	3
606	Improving cellulose nanofibrillation of non-wood fiber using alkaline and bleaching pre-treatments. 2019 , 131, 203-212		36
605	Polymer Composites Reinforced with Natural Fibers and Nanocellulose in the Automotive Industry: A Short Review. 2019 , 3, 51		73
604	Influence of hemicellulose content of Eucalyptus and Pinus fibers on the grinding process for obtaining cellulose micro/nanofibrils. 2019 , 73, 1035-1046		18
603	Fabrication and characterization of novel bilayer scaffold from nanocellulose based aerogel for skin tissue engineering applications. 2019 , 136, 796-803		45
602	Bacterial nanocellulose in papermaking. 2019 , 26, 6477-6488		35

601	Benzoxazine enhanced amino cellulose-based composite films: Preparation, proposed mechanism, and improved performance. <i>Carbohydrate Polymers</i> , 2019 , 222, 115008	0.3	17
600	Evaluation of properties and specific energy consumption of spinifex-derived lignocellulose fibers produced using different mechanical processes. 2019 , 26, 6555-6569		10
599	Comparative study of cellulose and lignocellulose nanopapers prepared from hard wood pulps: Morphological, structural and barrier properties. 2019 , 135, 512-520		6
598	Mechanical properties of cellulose nanofibril films: effects of crystallinity and its modification by treatment with liquid anhydrous ammonia. 2019 , 26, 6615-6627		10
597	Arginine/Nanocellulose Membranes for Carbon Capture Applications. 2019 , 9,		12
596	Status and future scope of plant-based green hydrogels in biomedical engineering. 2019 , 16, 213-246		100
595	Modifications of microcrystalline cellulose (MCC), nanofibrillated cellulose (NFC), and nanocrystalline cellulose (NCC) for antimicrobial and wound healing applications. 2019 , 19, 103-119		53
594	Inhalation of Bacterial Cellulose Nanofibrils Triggers an Inflammatory Response and Changes Lung Tissue Morphology of Mice. 2019 , 35, 45-63		14
593	Production of fire-retardant phosphorylated cellulose fibrils by twin-screw extrusion with low energy consumption. 2019 , 26, 5635-5651		21
592	Twisting of Fibers Balancing the Gel?Sol Transition in Cellulose Aqueous Suspensions. 2019 , 11,		5
591	Production of cationic nanofibrils of cellulose by twin-screw extrusion. 2019 , 137, 81-88		18
590	Fabrication of stable copper nanoparticles embedded in nanocellulose film as a bionanocomposite plasmonic sensor and thereof for optical sensing of cyanide ion in water samples. 2019 , 26, 4945-4956		9
589	Nanocellulose obtained from residues of peach palm extraction (Bactris gasipaes). <i>Carbohydrate Polymers</i> , 2019 , 218, 8-19	.0.3	30
588	Fluorescent Dye Adsorption in Aqueous Suspension to Produce Tagged Cellulose Nanofibers for Visualization on Paper. 2019 , 26, 5117-5131		17
587	Superabsorbent polymers: A review on the characteristics and applications of synthetic, polysaccharide-based, semi-synthetic and amartiderivatives. 2019 , 117, 165-178		81
586	Nanocomposites from Clay, Cellulose Nanofibrils, and Epoxy with Improved Moisture Stability for Coatings and Semistructural Applications. 2019 , 2, 3117-3126		17
585	Lignocellulose Structure and the Effect on Nanocellulose Production. 2019 , 17-30		2
584	Hybrid films of cellulose nanofibrils, chitosan and nanosilica-Structural, thermal, optical, and mechanical properties. <i>Carbohydrate Polymers</i> , 2019 , 218, 87-94	.0.3	15

Effect of fixation conditions on yellowing behavior of cellulose powderBoated fabrics. 2019, 14, 155892501982904 583 Continuous Processing of Nanocellulose and Polylactic Acid into Multilayer Barrier Coatings. 2019, 582 52 11, 11920-11927 Nanocelluloses: Natural-Based Materials for Fiber-Reinforced Cement Composites. A Critical 581 49 Review. 2019, 11, Deconstruction of microfibrillated cellulose into nanocrystalline cellulose rods and mesogenic 580 phase formation in concentrated low-modulus sodium silicate solutions. 2019, 26, 4325-4344 Morphological and rheological behaviors of micro-nanofibrillated NaOH-pretreated Aspen wood. 579 2 2019. 26. 4601-4614 Stiff all-bacterial cellulose nanopaper with enhanced mechanical and barrier properties. 2019, 246, 67-70 578 17 Reinforcing Linear Low-Density Polyethylene with Surfactant-Treated Microfibrillated Cellulose. 11 577 **2019**, 11, Nanocellulose Processing Properties and Potential Applications. 2019, 5, 76-89 576 83 Highly Toughened and Transparent Biobased Epoxy Composites Reinforced with Cellulose 575 25 Nanofibrils. 2019, 11, Plant-Derived Biomaterials: A Review of 3D Bioprinting and Biomedical Applications. 2019, 5, 574 47 Role of Cellulose Nanofibrils in Polymer Nanocomposites. 2019, 251-276 573 3 Efficiency of Cellulose Carbonates to Produce Cellulose Nanofibers. 2019, 7, 8155-8167 572 Exploration of Other High-Value Applications of Nanocellulose. 2019, 423-473 571 Effect of refining and homogenization on nanocellulose fiber development, sheet strength and 570 energy consumption. 2019, 26, 4767-4786 Production of Materials from Sustainable Biomass Resources. 2019, 569 2 568 Nanocellulose Applications in Papermaking. 2019, 61-96 6 Efficacy of a novel sequential enzymatic hydrolysis of lignocellulosic biomass and inhibition 567 12 characteristics of monosugars. 2019, 129, 634-644 Effective removing of methylene blue from aqueous solution by tannins immobilized on cellulose 566 28 microfibers. 2019, 129, 198-206

565	Strategy towards one-step preparation of carboxylic cellulose nanocrystals and nanofibrils with high yield, carboxylation and highly stable dispersibility using innocuous citric acid. 2019 , 21, 1956-1964		76
564	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structure?Property Relationship. 2019 , 12,		67
563	Composites of waterborne polyurethane and cellulose nanofibers for 3D printing and bioapplications. <i>Carbohydrate Polymers</i> , 2019 , 212, 75-88	10.3	66
562	A review of the concepts, recent advances and niche applications of the (photo) Fenton process, beyond water/wastewater treatment: Surface functionalization, biomass treatment, combatting cancer and other medical uses. 2019 , 248, 309-319		61
561	Commercial application of cellulose nano-composites - A review. 2019 , 21, e00316		238
560	Influence of Size Classifications on the Structural and Solid-State Characterization of Cellulose Materials. 2019 ,		1
559	Influence of filler content on free volumes structure and gas transport properties of biopolymer nanocomposites. 2019 ,		1
558	Morphological and Optical Properties of Polylactic Acid Bionanocomposite Film Reinforced with Oil Palm Empty Fruit Bunch Nanocrystalline Cellulose. 2019 , 1295, 012053		1
557	Lignin Redistribution for Enhancing Barrier Properties of Cellulose-Based Materials. 2019, 11,		7
556	Natural Fiber Reinforced Synthetic Polymer Composites. 2019 , 23, 6-30		1
555	Microfibrillated Cellulose Suspension and Its Electrorheology. 2019 , 11,		9
554	Nitroxide-mediated graft copolymerization of styrene from cellulose and its polymer/montmorillonite nanocomposite. 2019 , 51, 473-489		6
553	Recent advances in surface-modified cellulose nanofibrils. 2019 , 88, 241-264		273
552	A review on processing techniques of bast fibers nanocellulose and its polylactic acid (PLA) nanocomposites. 2019 , 121, 1314-1328		79
551	Banana starch nanocomposite with cellulose nanofibers isolated from banana peel by enzymatic treatment: In vitro cytotoxicity assessment. <i>Carbohydrate Polymers</i> , 2019 , 207, 169-179	10.3	50
550	Preparation and properties of microfibrillated cellulose with different carboxyethyl content. <i>Carbohydrate Polymers</i> , 2019 , 206, 616-624	10.3	8
549	A review on versatile applications of blends and composites of CNC with natural and synthetic polymers with mathematical modeling. 2019 , 124, 591-626		33
548	Sustainable Approach for the Direct Functionalization of Cellulose Nanocrystals Dispersed in Water by Transesterification of Vinyl Acetate. 2019 , 7, 187-196		14

547	Cellulose-Based Nanosupports for Enzyme Immobilization. 2019 , 1235-1253		3
546	Review of the Mechanistic Roles of Nanocellulose, Cellulosic Fibers, and Hydrophilic Cellulose Derivatives in Cellulose-Based Absorbents. 2019 , 123-153		2
545	Towards optimised size distribution in commercial microfibrillated cellulose: a fractionation approach. 2019 , 26, 1565-1575		16
544	Composite up-conversion luminescent films containing a nanocellulose and SrF2:Ho particles. 2019 , 26, 2403-2423		8
543	The use of cellulose nanofibres to reduce the wet strength polymer quantity for development of cleaner filters. 2019 , 215, 226-231		12
542	Emerging Cellulose-Based Nanomaterials and Nanocomposites. 2019 , 307-351		12
541	Nanocellulose-based multilayer barrier coatings for gas, oil, and grease resistance. <i>Carbohydrate Polymers</i> , 2019 , 206, 281-288	10.3	50
540	Microfibrillated cellulose enhancement to mechanical and conductive properties of biocompatible hydrogels. <i>Carbohydrate Polymers</i> , 2019 , 205, 244-254	10.3	31
539	Morphological and property characteristics of surface-quaternized nanofibrillated cellulose derived from bamboo pulp. 2019 , 26, 1683-1701		11
538	Flexible, biodegradable and recyclable solar cells: a review. 2019 , 30, 951-974		27
537	Accelerated testing methodology for long-term life prediction of cellulose-based polymeric composite materials. 2019 , 149-171		2
536	Flexible cellulose nanofibrils as novel pickering stabilizers: The emulsifying property and packing behavior. 2019 , 88, 180-189		72
535	Production of Microfibrillated Cellulose by Novel Continuous Steam Explosion Assisted Chemo-Mechanical Methods and Its Characterizations. 2019 , 10, 275-286		8
534	Extraction of Cellulose Nanocrystals with Structure I and II and Their Applications for Reduction of Graphene Oxide and Nanocomposite Elaboration. 2019 , 10, 1913-1927		18
533	Comparison of mechanical reinforcement effects of cellulose nanocrystal, cellulose nanofiber, and microfibrillated cellulose in starch composites. 2019 , 40, E365		24
532	Main Characteristics of Underexploited Amazonian Palm Fibers for Using as Potential Reinforcing Materials. 2019 , 10, 3125-3142		2
531	Arsenic removal by magnetite-loaded amino modified nano/microcellulose adsorbents: Effect of functionalization and media size. 2019 , 12, 4675-4693		47
530	Cellulose Nanowhiskers Extracted from Tempo-Oxidized Curaua Fibers. 2020 , 17, 1355-1365		17

Polysaccharide Based Rubber Nanocomposites. **2020**, 187-199

528	Bio-Waste Based Nanofiber Materials. 2020 , 715-726		1
527	In vitro toxicity assessment of hydrogel patches obtained by cation-induced cross-linking of rod-like cellulose nanocrystals. 2020 , 108, 687-697		9
526	Preparation, Properties, and Applications of Natural Cellulosic Aerogels: A Review. 2020 , 1, 60-76		55
525	Ice-templated freeze-dried cryogels from tunicate cellulose nanocrystals with high specific surface area and anisotropic morphological and mechanical properties. 2020 , 27, 233-247		27
524	Thermo-compression of cellulose nanofibrils. 2020 , 27, 25-40		5
523	Methods and applications of nanocellulose loaded with inorganic nanomaterials: A review. <i>Carbohydrate Polymers</i> , 2020 , 229, 115454	10.3	60
522	Cellulose phosphorylation comparison and analysis of phosphorate position on cellulose fibers. <i>Carbohydrate Polymers</i> , 2020 , 229, 115294	10.3	24
521	Green tire technology: Effect of rice husk derived nanocellulose (RHNC) in replacing carbon black (CB) in natural rubber (NR) compounding. <i>Carbohydrate Polymers</i> , 2020 , 230, 115620	10.3	53
520	Trends in the production of cellulose nanofibers from non-wood sources. 2020 , 27, 575-593		59
519	Relationship between rheological and morphological characteristics of cellulose nanofibrils in dilute dispersions. <i>Carbohydrate Polymers</i> , 2020 , 230, 115588	10.3	13
518	Waste paper: An underutilized but promising source for nanocellulose mining. 2020 , 102, 281-303		56
517	Paper-Based Microfluidics for Electrochemical Applications. 2020 , 7, 10-30		24
516	Reducing formation time while improving transparency and strength of cellulose nanostructured paper with polyvinylpyrrolidone and Laponite. <i>Carbohydrate Polymers</i> , 2020 , 230, 115580	10.3	4
515	Pretreatment of Microfibrillated Cellulose on Polylactide Composites. 2020 , 28, 110-117		1
514	Insight into biodegradation of cellulose by psychrotrophic bacterium Pseudomonas sp. LKR-1 from the cold region of China: optimization of cold-active cellulase production and the associated degradation pathways. 2020 , 27, 315-333		11
513	Bismuth phosphinate incorporated nanocellulose sheets with antimicrobial and barrier properties for packaging applications. 2020 , 246, 119016		26
512	Innovating Generation of Nanocellulose from Industrial Hemp by Dual Asymmetric Centrifugation. 2020 , 8, 1850-1858		17

511	Hygroscopic, structural, and thermal properties of essential oil microparticles of sweet orange added with cellulose nanofibrils. 2020 , 44, e14365		6
510	Combination of acid treatment and dual network fabrication to stretchable cellulose based hydrogels with tunable properties. 2020 , 147, 1-9		8
509	Polymeric nanocomposites reinforced with nanowhiskers: Design, development, and emerging applications. 2020 , 36, 312-333		6
508	Eco-Friendly Cellulose Nanofibrils Designed by Nature: Effects from Preserving Native State. 2020 , 14, 724-735	,	58
507	Preparing Bombyx mori Silk Nanofibers Using a Sustainable and Scalable Approach. 2020 , 8, 1155-1162		12
506	Nanocellulose Production by Twin-Screw Extrusion: Simulation of the Screw Profile To Increase the Productivity. 2020 , 8, 50-59		21
505	Cellulose Nanofibers and Other Biopolymers for Biomedical Applications. A Review. 2020 , 10, 65	,	57
504	TEMPO-oxidized cellulose nanofibers/TiO2 nanocomposite as new adsorbent for Brilliant Blue dye removal. 2020 , 77, 6213-6226	,	6
503	On the potential of lignin-containing cellulose nanofibrils (LCNFs): a review on properties and applications. 2020 , 27, 1853-1877	,	52
502	Natural polysaccharides for controlled delivery of oral therapeutics: a recent update. <i>Carbohydrate Polymers</i> , 2020 , 230, 115617	3	54
501	Thermally stable, enhanced water barrier, high strength starch bio-composite reinforced with lignin containing cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2020 , 230, 115626	3 .	55
500	Evaluation of the fibrillation method on lignocellulosic nanofibers production from eucalyptus sawdust: A comparative study between high-pressure homogenization and grinding. 2020 , 145, 1199-1207		17
499	Chloroform desorption from poly(lactic acid) nanocomposites: a thermal desorption spectroscopy study. 2020 , 92, 391-398	,	6
498	The influence of versatile thiol-norbornene modifications to cellulose nanofibers on rheology and film properties. <i>Carbohydrate Polymers</i> , 2020 , 230, 115672	3	13
497	Fabrication of biocomposite membrane with microcrystalline cellulose (MCC) extracted from sugarcane bagasse by phase inversion method. 2020 , 27, 1367-1384		12
496	A review of cellulose nanomaterials incorporated fruit coatings with improved barrier property and stability: Principles and applications. 2020 , 43, e13344		7
495	Changes in the Dimensions of Lignocellulose Nanofibrils with Different Lignin Contents by Enzymatic Hydrolysis. 2020 , 12,		3
494	Moderate Electric Field Treatment Enhances Enzymatic Hydrolysis of Cellulose at Below-Optimal Temperatures. 2020 , 142, 109678		4

(2020-2020)

493	An energy efficient production of high moisture barrier nanocellulose/carboxymethyl cellulose films via spray-deposition technique. <i>Carbohydrate Polymers</i> , 2020 , 250, 116911	10.3	12	
492	Conductive Regenerated Cellulose Film and Its Electronic Devices - A Review. <i>Carbohydrate Polymers</i> , 2020 , 250, 116969	10.3	15	
491	Novel bacterial cellulose nanocrystals/polyether block amide microporous membranes as separators for lithium-ion batteries. 2020 , 164, 3580-3588		5	
490	Coaxial Spinning of Oriented Nanocellulose Filaments and CoreBhell Structures for Interactive Materials and Fiber-Reinforced Composites. 2020 , 3, 10246-10251		7	
489	Multifunctionalization of cellulose microfibrils through a cascade pathway entailing the sustainable Passerini multi-component reaction. 2020 , 22, 7059-7069		5	
488	Impact of heat drying on the physical and environmental characteristics of the nanocellulose-based films produced via spray deposition technique. 2020 , 27, 10225-10239		4	
487	Ethyl cellulose based self-healing adhesives synthesized via RAFT and aromatic schiff-base chemistry. <i>Carbohydrate Polymers</i> , 2020 , 250, 116846	10.3	12	
486	Cellulose Microfibres Obtained from Agro-Industrial Tara Waste for Dye Adsorption in Water. 2020 , 231, 1		2	
485	The effect of micro-fibrillated cellulose upon the dielectric relaxations and DC conductivity in thermoplastic starch bio-composites. 2020 , 137, 49573		3	
484	Functionalization of cellulose nanocrystal films using Non-Thermal atmospheric P ressure plasmas. 2020 , 511, 145566		13	
483	The current status of the enzyme-mediated isolation and functionalization of nanocelluloses: production, properties, techno-economics, and opportunities. 2020 , 27, 10571-10630		15	
482	Rheological behavior of cellulose nanofibers from cassava peel obtained by combination of chemical and physical processes. <i>Carbohydrate Polymers</i> , 2020 , 248, 116744	10.3	18	
481	From Cellulose to Cellulose Nanofibrils-A Comprehensive Review of the Preparation and Modification of Cellulose Nanofibrils. 2020 , 13,		32	
480	Biorefinery Approach for Aerogels. 2020 , 12,		11	
479	Lignocellulosic Biomass for the Synthesis of Nanocellulose and Its Eco-Friendly Advanced Applications. 2020 , 8, 601256		21	
478	Inkjet printing of homogeneous and green cellulose nanofibril dielectrics for high performance IGZO TFTs. 2020 , 8, 12578-12586		4	
477	Nanocellulose/Starch Biopolymer Nanocomposites: Processing, Manufacturing, and Applications. 2020 , 65-88		16	
476	Nanofibrillation and characterization of sugarcane bagasse agro-waste using water-based steam explosion and high-pressure homogenization. 2020 , 277, 123471		13	

475	Poly(3-hydroxybutyrate) Modified by Plasma and TEMPO-Oxidized Celluloses. 2020 , 12,	6
474	Isolation and characterization of cellulose nanofibres from three common Nigerian grasses. 2020 , 805, 012040	1
473	Cellulose-Multiwall Carbon Nanotube Fiber Actuator Behavior in Aqueous and Organic Electrolyte. 2020 , 13,	3
472	Asymmetric Cellulosic Membranes: Current and Future Aspects. 2020 , 12, 1160	3
471	Nanocellulose Production: Exploring the Enzymatic Route and Residues of Pulp and Paper Industry. 2020 , 25,	60
470	Drying and redispersion of plant cellulose nanofibers for industrial applications: a review. 2020 , 27, 10649-10	67 <u>0</u>
469	Chemical characterization and ultrastructure study of pulp fibers. 2020 , 17, 100324	3
468	Adhesion and Stability of Nanocellulose Coatings on Flat Polymer Films and Textiles. 2020 , 25,	8
467	High-Throughput Tailoring of Nanocellulose Films: From Complex Bio-Based Materials to Defined Multifunctional Architectures. 2020 , 3, 7428-7438	9
466	The state of the art of food ingredients haturalness evaluation: A review of proposed approaches and their relation with consumer trends. 2020 , 106, 434-444	13
465	Micro-Fibrillated Cellulose in Adhesive Systems for the Production of Wood-Based Panels. 2020 , 25,	5
464	Nanocellulose reinforcement in paper produced from fiber blending. 2020 , 54, 1587-1603	2
463	Thiol-norbornene reactions to improve natural rubber dispersion in cellulose nanofiber coatings. <i>Carbohydrate Polymers</i> , 2020 , 250, 117001	9
462	Superior dispersion led excellent performance of wood-plastic composites via solid-state shear milling process. 2020 , 200, 108347	11
461	Biorefinery of Biomass of Agro-Industrial Banana Waste to Obtain High-Value Biopolymers. 2020 , 25,	15
460	The Application of Polysaccharides and Their Derivatives in Pigment, Barrier, and Functional Paper Coatings. 2020 , 12,	11
459	Understanding important aspects of spray drying microfibrillated cellulose through statistical analysis. 2020 , 27, 10707-10717	1
458	Chitin- and cellulose-based sustainable barrier materials: a review. 2020 , 3, 919-936	18

457	Cellulose Nanofibers from a Dutch Elm Disease-Resistant Clone. 2020 , 12,	8
456	Facile Method to Obtain Low DS Eketoesters and Esters of Microfibrillated Cellulose. 2020 , 21, 2166-2172	
455	On the toxicity of cellulose nanocrystals and nanofibrils in animal and cellular models. 2020 , 27, 5509-5544	33
454	Cellulose nanofibrils prepared by twin-screw extrusion: Effect of the fiber pretreatment on the fibrillation efficiency. <i>Carbohydrate Polymers</i> , 2020 , 240, 116342	8
453	Review of nanocellulose and nanohydrogel matrices for the development of sustainable future materials. 2020 , 155-176	0
452	Olive oil stability in Pickering emulsion preparation from eucalyptus pulp and its rheology behaviour. 2020 , 27, 6189-6203	8
451	Soluble soybean polysaccharide/nano zinc oxide antimicrobial nanocomposite films reinforced with microfibrillated cellulose. 2020 , 159, 793-803	12
450	Cellulose Nanomaterials in Interfacial Evaporators for Desalination: A "Natural" Choice. 2021 , 33, e2000922	48
449	Review on Polysaccharides Used in Coatings for Food Packaging Papers. 2020 , 10, 566	49
448	Lignin-based smart materials: a roadmap to processing and synthesis for current and future applications. 2020 , 7, 2237-2257	70
447	Starch-based nanocomposites with cellulose nanofibers obtained from chemical and mechanical treatments. 2020 , 161, 132-146	16
446	Hevea brasiliensis mediated synthesis of nanocellulose: Effect of preparation methods on morphology and properties. 2020 , 160, 1021-1028	9
445	In Vitro Biological Impact of Nanocellulose Fibers on Human Gut Bacteria and Gastrointestinal Cells. 2020 , 10,	15
444	Characterization of nanocellulose extracted from short, medium and long grain rice husks. 2020 , 154, 112627	33
443	Green Nanomaterials. 2020,	3
442	Cellulose from sources to nanocellulose and an overview of synthesis and properties of nanocellulose/zinc oxide nanocomposite materials. 2020 , 154, 1050-1073	64
441	Barrier coatings with various types of cellulose nanofibrils and their barrier properties. 2020 , 27, 4509-4523	16
440	Some cetyltrimethylammonium bromide modified polysaccharide supports as sustained release systems for curcumin. 2020 , 154, 361-370	8

439	Facile preparation of spherical cellulose nanoparticles: chemical hydrolysis of fibres with tension. 2020 , 2, 1	3
438	Cellular, Mineralized, and Programmable Cellulose Composites Fabricated by 3D Printing of Aqueous Pastes Derived from Paper Wastes and Microfibrillated Cellulose. 2020 , 305, 1900740	7
437	Plant and bacterial nanocellulose: production, properties and applications in medicine, food, cosmetics, electronics and engineering. A review. 2020 , 18, 851-869	75
436	Acetylated cellulose nanostructures as reinforcement materials for PBAT nanocomposites. 2020 , 41, 2841-2854	8
435	Nanocelluloses from phormium (Phormium tenax) fibers. 2020 , 27, 4975-4990	4
434	Effect of microcrystalline and microfibrillated cellulose on the evolution of hydration of cement pastes by thermogravimetry. 2020 , 142, 1413-1428	3
433	Effects of hydrothermal pretreatment on nano-mechanical property of switchgrass cell wall and on energy consumption of isolated lignin-coated cellulose nanofibrils by mechanical grinding. 2020 , 149, 112317	16
432	Effect of lignin and hemicellulose on the properties of lignocellulose nanofibril suspensions. 2020 , 27, 10631-10647	15
431	Development of eco-friendly modified cellulose nanofiber reinforced polystyrene nanocomposites: thermal, mechanical, and optical properties. 2020 , 27, 1	3
430	Reinforced nanocomposites for food packaging. 2020 , 533-574	1
429	Interface nanocavities in poly (lactic acid) membranes with dispersed cellulose nanofibrils: Their role in the gas barrier performances. 2020 , 202, 122729	4
428	Enhancing packaging board properties using micro- and nanofibers prepared from recycled board. 2020 , 27, 7215-7225	3
427	Dual Antioxidant Properties and Organic Radical Stabilization in Cellulose Nanocomposite Films Functionalized by In Situ Polymerization of Coniferyl Alcohol. 2020 , 21, 3163-3175	5
426	Characterization of vegetable fibers and their application in cementitious composites. 2020 , 141-167	3
425	The effect of consistency on the shear rheology of aqueous suspensions of cellulose micro- and nanofibrils: a review. 2020 , 27, 1879-1897	16
424	High-Resolution Patterned Biobased Thin Films via Self-Assembled Carbohydrate Block Copolymers and Nanocellulose. 2020 , 7, 1901737	4
423	Cellulose fibrillation and interaction with psyllium seed husk heteroxylan. 2020, 104, 105725	9
422	Production of 100% Cellulose Nanofibril Objects Using the Molded Cellulose Process: A Feasibility Study. 2020 , 59, 7670-7679	3

421	Nanocellulose-based composites for the removal of contaminants from wastewater. 2020 , 152, 616-632	64
420	Obtaining cellulosic nanofibrils from oat straw for biocomposite reinforcement: Mechanical and barrier properties. 2020 , 148, 112264	21
419	Screening of Nanocellulose from Different Biomass Resources and Its Integration for Hydrophobic Transparent Nanopaper. 2020 , 25,	23
418	Cellulose nanofibers from recycled and virgin wood pulp: A comparative study of fiber development. <i>Carbohydrate Polymers</i> , 2020 , 234, 115900	17
417	Characterization studies of biopolymeric matrix and cellulose fibres based composites related to functionalized fibre-matrix interface. 2020 , 29-93	22
416	Production of nanocellulose with different length from ginkgo seed shells and applications for oil in water Pickering emulsions. 2020 , 149, 617-626	32
415	High-strength cellulose films obtained by the combined action of shear force and surface selective dissolution. <i>Carbohydrate Polymers</i> , 2020 , 233, 115883	6
414	Cationic modification of nanocrystalline cellulose from sago fronds. 2020 , 27, 3121-3141	13
413	New biocomposite obtained using poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBH) and microfibrillated cellulose. 2020 , 137, 48953	12
412	Process optimization for the production of cellulose nanocrystals from rice straw derived Etellulose. 2020 , 3, 328-334	23
411	Disruptive enzyme-based strategies to isolate nanocelluloses: a review. 2020 , 27, 5457-5475	9
411	Disruptive enzyme-based strategies to isolate nanocelluloses: a review. 2020 , 27, 5457-5475 Nano-biocomposite films fabricated from cellulose fibers and halloysite nanotubes. 2020 , 190, 105565	9
410	Nano-biocomposite films fabricated from cellulose fibers and halloysite nanotubes. 2020 , 190, 105565 A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species. 2020 ,	14
410	Nano-biocomposite films fabricated from cellulose fibers and halloysite nanotubes. 2020 , 190, 105565 A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species. 2020 , 27, 3727-3740 Low cost membrane of wood nanocellulose obtained by mechanical defibrillation for potential	14
410 409 408	Nano-biocomposite films fabricated from cellulose fibers and halloysite nanotubes. 2020, 190, 105565 A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species. 2020, 27, 3727-3740 Low cost membrane of wood nanocellulose obtained by mechanical defibrillation for potential applications as wound dressing. 2020, 27, 10765-10779	14 9 11
410 409 408 407	Nano-biocomposite films fabricated from cellulose fibers and halloysite nanotubes. 2020, 190, 105565 A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species. 2020, 27, 3727-3740 Low cost membrane of wood nanocellulose obtained by mechanical defibrillation for potential applications as wound dressing. 2020, 27, 10765-10779 Natural Fibers: Applications. 2020,	14 9 11 7

403	Analysis of celluloses, plant holocelluloses, and wood pulps by size-exclusion chromatography/multi-angle laser-light scattering. <i>Carbohydrate Polymers</i> , 2021 , 251, 117045	10.3	10
402	Lignocellulosic biomass as sustainable feedstock and materials for power generation and energy storage. 2021 , 57, 247-280		87
401	Enzymatic Modification of Cellulose To Unlock Its Exploitation in Advanced Materials. 2021 , 22, 974-981		1
400	Tensile and morphological properties of nanocrystalline cellulose and nanofibrillated cellulose reinforced PLA bionanocomposites: A review. 2021 , 61, 22-38		7
399	Wood-cellulose-fiber-based functional materials for triboelectric nanogenerators. 2021 , 81, 105637		48
398	Recent studies on modified cellulose/nanocellulose epoxy composites: A systematic review. <i>Carbohydrate Polymers</i> , 2021 , 255, 117366	10.3	20
397	Cetyltrimethylammonium bromide-nanocrystalline cellulose (CTAB-NCC) based microemulsions for enhancement of topical delivery of curcumin. <i>Carbohydrate Polymers</i> , 2021 , 254, 117401	10.3	14
396	Nanocellulose-based materials/composites for sensors. 2021 , 185-214		2
395	Plant-based nanocellulose: A review of routine and recent preparation methods with current progress in its applications as rheology modifier and 3D bioprinting. 2021 , 166, 1586-1616		24
394	Design strategies, properties and applications of cellulose nanomaterials-enhanced products with residual, technical or nanoscale lignin-A review. <i>Carbohydrate Polymers</i> , 2021 , 254, 117480	10.3	4
393	Design of nano and micro fibrillated cellulose production processes from forest industrial wastes in a multiproduct biorefinery. 2021 , 167, 1-14		4
392	Skin and bubble formation in films made of methyl nanocellulose, hydrophobically modified ethyl(hydroxyethyl)cellulose and microfibrillated cellulose. 2021 , 28, 787-797		3
391	Microstructural, Thermal, Crystallization, and Water Absorption Properties of Films Prepared from Never-Dried and Freeze-Dried Cellulose Nanocrystals. 2021 , 306, 2000462		2
390	Di-carboxylic acid cellulose nanofibril (DCA-CNF) as an additive in water-based drilling fluids (WBMs) applied to shale formations. 2021 , 28, 417-436		2
389	Substitution of petroleum-based polymeric materials used in the electrospinning process with nanocellulose: A review and future outlook. 2021 , 269, 128710		6
388	Microfibrillated cellulose from Argania spinosa shells as sustainable solid particles for O/W Pickering emulsions. <i>Carbohydrate Polymers</i> , 2021 , 251, 116990	10.3	11
387	Micro-nanofibrillated cellulose preparation from bleached softwood pulp using chemo-refining approach and its evaluation as strength enhancer for paper properties. 2021 , 11, 101-115		2
386	Cellulose nanofibers/polylactic acid based biocomposites for packaging applications. 2021 , 101-112		О

385	Green Composites from Sustainable Cellulose Nanofibrils. 2021 , 135-150	O
384	In Vitro Investigation of Thiol-Functionalized Cellulose Nanofibrils as a Chronic Wound Environment Modulator. 2021 , 13,	3
383	Cellulose Nanofibers for Development of Green Composites. 2021 , 195-212	
382	Hierarchical Vegetal Fiber Reinforced Composites. 2021, 379-412	1
381	Natural aerogels for pollutant removal. 2021 , 19-32	0
380	Overview of nanocellulose as additives in paper processing and paper products. 2021 , 10, 264-281	11
379	Nanocellulose: A sustainable and renewable material for water and wastewater treatment. 2021 , 93-109	О
378	Cellulose-based nanomaterials in drug delivery applications. 2021 , 57-86	1
377	Extraction of Drug Residuals from an Aqueous Solution Using Nanocellulose Adsorbent. 2021 , 867-872	
376	Cellulose Photocatalysis for Renewable Energy Production. 2021 , 1-34	O
375	Nanocellulose for Sustainable Future Applications. 2021 , 421-432	
374	Comparison between cellulose nanocrystal and microfibrillated cellulose as reinforcement of poly(vinyl acetate) composites obtained by either in situ emulsion polymerization or a simple mixing technique. 2021 , 28, 2273-2286	4
373	Nanocellulose and its composite films: Applications, properties, fabrication methods, and their limitations. 2021 , 247-297	2
372	Effect of TDI-Assisted Hydrophobic Surface Modification of Microcrystalline Cellulose on the Tensile Fracture of MCC/PLA Composite, and Estimation of the Degree of Substitution by Linear Regression. 2021 , 37, 793-801	4
371	A Review on Natural Fiber Bio-Composites, Surface Modifications and Applications. 2021, 26,	36
370	Electrospun-Based Nonwoven 3D Fibrous Composite Polymer Electrolytes for High-Performance Lithium-Ion Batteries. 2021 , 153-178	
369	Sustainable, self-cleaning, transparent, and moisture/oxygen-barrier coating films for food packaging. 2021 , 23, 2658-2667	17
368	Polymer Nanocomposite Matrix-Based Nanoproducts. 2021 , 1-14	

367 Nanocellulose-Based Materials for Heavy Metal Removal from Wastewater. **2021**, 1-34

366	Cd(II) and Pb(II) Adsorption Using a Composite Obtained from Moringa oleifera Lam. Cellulose Nanofibrils Impregnated with Iron Nanoparticles. 2021 , 13, 89	12
365	Jatropha Oil as a Substituent for Palm Oil in Biobased Polyurethane. 2021, 2021, 1-12	3
364	The role of MFC and hydrophobically modified ethyl(hydroxyethyl)cellulose in film formation and the barrier properties of methyl nanocellulose film. 2021 , 36, 312-322	
363	Ionic liquid-assisted nanocellulose preparation from microcrystalline cellulose. 2021 , 1793, 012046	O
362	Online measurement of floc size, viscosity, and consistency of cellulose microfibril suspensions with optical coherence tomography. 2021 , 28, 3373-3387	O
361	Alkaline Fractionation and Subsequent Production of Nano-Structured Silica and Cellulose Nano-Fibrils for the Comprehensive Utilization of Rice Husk. 2021 , 13, 1951	3
360	Role of Surface Chemistry in the In Vitro Lung Response to Nanofibrillated Cellulose. 2021 , 11,	6
359	Rheology and structure of suspensions of spherocylinders via Brownian dynamics simulations. 2021 , 65, 273-288	1
358	Multilayer surface construction for enhancing barrier properties of cellulose-based packaging. Carbohydrate Polymers, 2021 , 255, 117431	13
357	Preparation and characterization of microcrystalline cellulose from olive stones. 1	2
356	Atk Sularda Boya Giderimi In Fonsiyonellenmi[Nanosel[bz Esasl-Adsorbanlar.	1
355	Phosphorylated cellulose nanofibrils: structure-morphology-rheology relationships. 2021 , 28, 4105-4117	4
354	Applications of Biocompatible Scaffold Materials in Stem Cell-Based Cartilage Tissue Engineering. 2021 , 9, 603444	15
353	A novel design for nanocellulose reinforced ureafformaldehyde resin: a breakthrough in amino resin synthesis and biocomposite manufacturing. 2021 , 28, 3435-3450	4
352	Effect of the chemical and structural characteristics of pulps of Eucalyptus and Pinus on the deconstruction of the cell wall during the production of cellulose nanofibrils. 2021 , 28, 5387	3
351	Moulding of micropatterned nanocellulose films and their application in fluid handling. 2021 , 587, 162-172	6
350	Systematic comparison for effects of different scale mechanical-NaOH coupling treatments on lignocellulosic components, micromorphology and cellulose crystal structure of wheat straw. 2021 , 326, 124786	5

349	Printability of variative nanocellulose derived papers. 2021 , 28, 5019-5031	3
348	Fluorescently Labeled Cellulose Nanofibers for Environmental Health and Safety Studies. 2021 , 11,	5
347	Extraction, characterization and chemical functionalization of phosphorylated cellulose derivatives from Giant Reed Plant. 2021 , 28, 4625-4642	17
346	Grafting from cellulose nanofibres with naturally-derived oil to reduce water absorption. 2021 , 222, 123659	
345	Characteristics of cellulose fibers from Opuntia ficus indica cladodes and its use as reinforcement for PET based composites. 1-17	5
344	Polysaccharides: An Efficient Tool for Fabrication of Carbon Nanomaterials. 2021, 337-366	2
343	A tunable alkaline/oxidative process for cellulose nanofibrils exhibiting different morphological, crystalline properties. <i>Carbohydrate Polymers</i> , 2021 , 259, 117755	2
342	Preparation of Reinforced Anisometric Patchy Supraparticles for Self-Propulsion. 2021, 38, 2000328	2
341	Thermoresponsive Nanocellulose Films as an Optical Modulation Device: Proof-of-Concept. 2021 , 13, 25346-25356	4
340	Progress in nanocellulose and its polymer based composites: A review on processing, characterization, and applications. 2021 , 42, 3660-3686	7
339	Cellulose and its Derivatives: Properties and Applications. 2021 , 221-252	1
338	Preparation and Characterization of Cellulose Nanocrystals from Typha sp. as a Reinforcing Agent. 1-14	4
337	A Review on Agro-industrial Waste as Cellulose and Nanocellulose Source and Their Potentials in Food Applications. 1-26	3
336	Cellulose-based phase change fibres for thermal energy storage and management applications. 2021 , 412, 128596	7
335	The influence of barrier pigments in waterborne barrier coatings on cellulose nanofiber layers. 1	1
334	Control of the aqueous solubility of cellulose by hydroxyl group substitution and its effect on processing. 2021 , 223, 123681	4
333	Micro/nano-fibrillated cellulose (MFC/NFC) fibers as an additive to maximize eucalyptus fibers on tissue paper production. 2021 , 28, 6587	8
332	Merging Biology and Photovoltaics: How Nature Helps Sun-Catching. 2100520	2

331	High-Oxygen-Barrier Multilayer Films Based on Polyhydroxyalkanoates and Cellulose Nanocrystals. 2021 , 11,	4
330	Potential of polypropylene nanocomposite reinforced with cellulose nanofiber from oil palm empty fruit bunch as sustainable packaging: A review. 2021 , 749, 012044	1
329	Laccase-modified cornstalk pith for cleanup of spilled diesel oil. 2021 , 28, 7123-7142	2
328	Nanomaterials for 3D Printing of Polymers via Stereolithography: Concept, Technologies, and Applications. 2021 , 306, 2100345	1
327	Usage of nanocrystalline cellulose phosphate as novel sustained release system for anti-inflammatory drugs. 2021 , 1233, 130108	5
326	Extraction of cellulose to progress in cellulosic nanocomposites for their potential applications in supercapacitors and energy storage devices. 2021 , 56, 14448-14486	5
325	A review of nanocellulose as a new material towards environmental sustainability. 2021, 775, 145871	61
324	Comparative characterization of phosphorylated wood holocelluloses and celluloses for nanocellulose production. 1	2
323	Nanofibrillated cellulose and its applications in cement-based composites: A review. 2021 , 288, 123122	9
322	Interfacial interactions between urea formaldehyde and cellulose nanofibrils (CNFs) of varying chemical composition and their impact on particle board (PB) manufacture. 2021 , 28, 7969-7979	3
321	Modeling the penetration of polymer into paper during extrusion coating. 1	0
320	Nanocelluloses: Sources, Pretreatment, Isolations, Modification, and Its Application as the Drug Carriers. 2021 , 13,	9
319	Characterization of sweet bamboo (Dendrocalamus asper Backer) kraft pulp filled in poly(lactic acid)/polybutylene succinate blend composite. 2021 , 42, 5090	5
318	Evaluation of linear and nonlinear rheology of microfibrillated cellulose. 2021 , 18, 1401-1411	1
317	Durable flame retardant and mechanism of bamboo fabric through grafting based on arginine. 2021 , 28, 8187-8204	1
316	Cellulose nanocrystals: Pretreatments, preparation strategies, and surface functionalization. 2021 , 182, 1554-1581	61
315	All-biobased transparent-wood: A new approach and its environmental-friendly packaging application. <i>Carbohydrate Polymers</i> , 2021 , 264, 118012	11
314	A Short Review of Nano-Cellulose Preparation from Textile Spinning Waste Cotton. 2021,	

313	Testing of Chemically Activated Cellulose Fibers as Adsorbents for Treatment of Arsenic Contaminated Water. 2021 , 14,	1
312	A review on natural fibers for development of eco-friendly bio-composite: characteristics, and utilizations. 2021 , 13, 2442-2458	52
311	Production of Microfibrillated Cellulose from Fast-Growing Poplar and Olive Tree Pruning by Physical Pretreatment. 2021 , 11, 6445	2
310	Preparation and characterization of air nanofilters based on cellulose nanofibers. 2021 , 182, 1392-1398	7
309	Nano-Cellulosic Fibers from Agricultural Wastes.	
308	Influence of Size and Chemical Additives on the Fabrication of Micropattern Nanocellulose Films. 2021 , 9, 11714-11723	O
307	Thermal Conductivity of Cellulose Fibers in Different Size Scales and Densities. 2021, 22, 3800-3809	1
306	Recycling cellulose nanofibers from wood pulps provides drainage improvements for high strength sheets in papermaking. 2021 , 312, 127731	4
305	Comprehensive Review of Polysaccharide-Based Materials in Edible Packaging: A Sustainable Approach. 2021 , 10,	11
304	Synthesis and wettability of cellulose based composites by aqueous solutions of nonionic surfactant. 2021 , 623, 126709	
303	Cellulose Nanofibrils as Reinforcement in the Process Manufacture of Paper Handsheets. 1-16	2
302	Recent Developments in the Formulation and Use of Polymers and Particles of Plant-based Origin for Emulsion Stabilizations. 2021 , 14, 4850-4877	2
301	Wood Adhesives Based on Natural Resources: A Critical Review: Part IV. Special Topics. 2021 , 761-840	O
300	Deconstruction and Reassembly of Renewable Polymers and Biocolloids into Next Generation Structured Materials. 2021 , 121, 14088-14188	23
299	Characterization of non-thermal dielectric barrier discharges at atmospheric pressure in presence of microfibrillated cellulosic foams. 2021 , 30, 095019	O
298	Influence of Lactic Acid Surface Modification of Cellulose Nanofibrils on the Properties of Cellulose Nanofibril Films and Cellulose Nanofibril-Poly(lactic acid) Composites. 2021 , 11,	3
297	Impact of the Enzyme Charge on the Production and Morphological Features of Cellulose Nanofibrils. 2021 , 13,	2
296	Carboxymethyl Cellulose Enhanced Production of Cellulose Nanofibrils. 2021 , 9, 57	2

295 Production of High-Solid-Content Fire-Retardant Phosphorylated Cellulose Microfibrils. **2021**, 9, 12365-12375 2

294	Research progress of the biosynthetic strains and pathways of bacterial cellulose. 2021,		О
293	Nanocellulose from Agricultural Wastes: Products and Applications Review. 2021, 9, 1594		14
292	How to make the use of recycled paperboard fit for food contact? A contribution to the discussion. 2021 , 1-16		1
291	Nanocrystalline Cellulose from Microcrystalline Cellulose of Date Palm Fibers as a Promising Candidate for Bio-Nanocomposites: Isolation and Characterization. 2021 , 14,		7
290	Bio-based films/nanopapers from lignocellulosic wastes for production of added-value micro-/nanomaterials. 2021 , 1		5
289	Flotation as a separation technology for recovering pulp fines and sustainable nanocellulose production. 2021 , 270, 118810		1
288	Highly fibrillated and intrinsically flame-retardant nanofibrillated cellulose for transparent mineral filler-free fire-protective coatings. 2021 , 419, 129440		6
287	Effect of mixing ratio on mechanical properties of mixture of chitin nanofibers and microfibrillated cellulose reinforced PVA hybrid nanocomposites. 2021 , 11, 1523-1533		
286	Incarnation of bioplastics: recuperation of plastic pollution. 1-24		1
285	Markedly improved hydrophobicity of cellulose film via a simple one-step aminosilane-assisted ball milling. <i>Carbohydrate Polymers</i> , 2022 , 275, 118701	10.3	2
284	Extraction and preservation of lycopene: A review of the advancements offered by the value chain of nanotechnology. 2021 , 116, 1120-1140		4
283	Application and challenge of nanocellulose in the food industry. 2021 , 43, 101285		3
282	Reinforcement ability of lignocellulosic components in biocomposites and their 3D printed applications 🖪 review. 2021 , 6, 100171		2
281	Understanding the evolution of cellulose fibers during enzyme treatment. 2021 , 171, 113983		1
280	Microfibrillated cellulose reinforced starch/polyvinyl alcohol antimicrobial active films with controlled release behavior of cinnamaldehyde. <i>Carbohydrate Polymers</i> , 2021 , 272, 118448	10.3	8
279	Advances in nanocellulose-based materials as adsorbents of heavy metals and dyes. <i>Carbohydrate Polymers</i> , 2021 , 272, 118471	10.3	20
278	Promising eco-friendly biomaterials for future biomedicine: Cleaner production and applications of Nanocellulose. 2021 , 24, 101855		1

277	Pomelo pectin and fiber: Some perspectives and applications in food industry. 2021 , 120, 106981	3
276	Design of nanoemulgel using Argania spinosa microfibrillated cellulose and natural emulsifiers foreseeing melanogenesis enhancement. <i>Carbohydrate Polymers</i> , 2021 , 274, 118632	O
275	Comparing rheological, tribological and sensory properties of microfibrillated cellulose dispersions and xanthan gum solutions. 2021 , 121, 107052	4
274	Nanopore confinement and fluid behavior in nanocelluloseBased hydro- and organogels. 2021 , 2, 100111	
273	Nanocellulose: A mini-review on types and use in drug delivery systems. 2021 , 2, 100031	19
272	Utilization of bio-polymeric additives for a sustainable production strategy in pulp and paper manufacturing: A comprehensive review. 2021 , 2, 100050	5
271	Plasma-assisted fibrillation and surface-modification of microfibrillar cellulose. 2021 , 304, 130615	2
270	Occurrence, distribution, and structure of natural polysaccharides. 2022 , 1-27	Ο
269	Fiberboard Manufacturing from Laccase Activated Lignin Based Bioadhesive. 2021 , 51-83	О
268	Polyhydroxyalkanoate Nanocomposites with Cellulose Nanocrystals as Biodegradable Coating and Packaging Materials. 2021 , 4, 260-270	4
267	Polysaccharide biopolymer chemistry. 2021 , 45-105	3
266	Recent advances in 3D printing of nanocellulose: structure, preparation, and application prospects. 2021 , 3, 1167-1208	15
265	Biosensors. 2021 , 381-400	
264	Recent advances in nanocellulose processing, functionalization and applications: a review. 2021 , 2, 1872-1895	5 28
263	Polyethylene Composites with Lignocellulosic Material. 117-161	3
262	Extraction of Cellulose Nanofibers and Their Eco-friendly Polymer Composites. 2019 , 653-691	14
261	Nanocellulose for Sustainable Future Applications. 2020 , 1-12	2
260	Extraction of Multiple Value-Added Compounds from Agricultural Biomass Waste: A Review. 2020 , 163-192	3

259	Cellulose from Lignocellulosic Waste. 2015 , 475-511	15
258	Rheo-NMR: Applications to Food. 2017 , 1-21	1
257	Nanotechnology Applications on Lignocellulosic Biomass Pretreatment. 2017 , 19-37	9
256	Cementitious Composites Reinforced with Natural Fibres. 2017 , 197-331	3
255	Preparation and Properties of Nanopolysaccharides. 2019 , 1-54	1
254	Nanopolysaccharides in Surface Coating. 2019 , 283-319	4
253	Cellulose from the green macroalgae Ulva lactuca: isolation, characterization, optotracing, and production of cellulose nanofibrils. 2020 , 27, 3707-3725	35
252	General introduction on sustainable nanocellulose and nanohydrogel matrices. 2020, 1-31	3
251	Quantitative and qualitative characterization of dual scale mechanical enhancement on cellulosic and crystalline-structural variation of NaOH treated wheat straw. 2020 , 312, 123535	5
250	Chapter 17:Bio-mimetic Structural Colour using Biopolymers. 2016 , 555-585	3
249	Humidity-responsive molecular gate-opening mechanism for gas separation in ultraselective nanocellulose/IL hybrid membranes. 2020 , 22, 3546-3557	17
248	Circular economy versus planetary limits: a Slovak forestry sector case study. 2020 , ahead-of-print,	6
247	Cellulose-Based Graft Copolymers: An Overview. 2015 , 1-12	2
246	Optimization of Conditions for the Production of Recombinant Cellulase by using E.COLI BL21 Codon Plus in Fermenter. 2020 , 17, 173-190	1
245	Pulping Processes and Their Effects on Cellulose Fibers and Nanofibrillated Cellulose Properties: A Review. 2020 , 70, 10-21	14
244	Study of LCNF and CNF from pine and eucalyptus pulps. 2020 , 35, 670-684	2
243	Evolution of biobased and nanotechnology packaging 🗈 review. 2020 , 35, 491-515	10
242	Comparison of Regenerated Cellulose Fibers Spun from Ionic Liquid Solutions with Lyocell Fiber. 2020 , 76, 257-266	5

241	Cam Elyaf Takviyeli Polyester (CTP) Kompozit Malzemelerde Kullan la n Doʻll Elyaflar ve Dolgu Maddeleri.	Ο
240	Effect of a Novel Chemical Treatment on the Physico-Thermal Properties of Sugarcane Nanocellulose Fiber Reinforced Epoxy Nanocomposites. 2020 , 35, 211-220	10
239	Rheological characterization of microfibrillated cellulose suspension using optical coherence tomography. 2015 , 14, 291-302	16
238	Rheological investigation of complex micro and nanofibrillated cellulose (MNFC) suspensions: Discussion of flow curves and gel stability. 2016 , 15, 405-416	16
237	Slot die coating of nanocellulose on paperboard. 2018 , 17, 11-19	1
236	Wet-end addition of nanofibrillated cellulose pretreated with cationic starch to achieve paper strength with less refining and higher bulk. 2018 , 17, 395-403	6
235	Crosslinked Facilitated Transport Membranes Based on Carboxymethylated NFC and Amine-Based Fixed Carriers for Carbon Capture, Utilization, and Storage Applications. 2020 , 10, 414	6
234	Wood cellulose fibers reinforced polylactic acid composite: mechanical, thermomechanical characteristics and orientation of fiber. 2020 , 7, 9-23	3
233	Nanocellulose Applications in Wood Adhesives R eview. 2019 , 09, 63-75	19
232	Energy Efficient Manufacturing of Nanocellulose by Chemo- and Bio-Mechanical Processes: A Review. 2015 , 05, 204-212	45
231	Development of Cellulosic Fiber Filter Using Replacement Liquid in Water-Swollen Fiber with Non-Polar Solvent. 2013 , 35, 743-748	1
230	Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. 2015 , 40, 373-393	25
229	Width and Length Measurement of Cellulose Nanofibril by Nanoparticle Analyzer - Comparison with TEM Image Analysis 2019 , 51, 121-127	1
228	Effect of the Number of Passes through Grinder on the Pore Characteristics of Nanofibrillated Cellulose Mat. 2013 , 45, 35-41	3
227	Enzyme Activity and Beating Properties for Preparation of MicroFibrillated Cellulose(MFC). 2015 , 47, 59-65	2
226	Large Scale Applications of Nanocellulosic Materials - A Comprehensive Review 2015 , 47, 5-21	9
225	Cellulose nanostructured films from pretreated all mesocarp fibers: physical, barrier, and tensile performance. 27,	O
224	Micro- and nanocelluloses from non-wood waste sources; processes and use in industrial applications. 2021 , 17, 9842-9858	1

223	Trends in Sustainable Biobased Packaging Materials: A Mini Review. 2021, 100084	5
222	Cellulose-Based Hybrid Aerogels: Strategies toward Design and Functionality. 2021 , e2102892	9
221	Old Corrugated Container (OCC) Cardboard Material: An Alternative Source for Obtaining Microfibrillated Cellulose. 1-13	
220	Quality of Microfibrillated Cellulose Produced from Unbleached Pine Sawdust Pulp as an Environmentally Friendly Source. 1	3
219	THE BOLSHEVIST PARTY ORGANIZATION AS PART OF THE SOVIET COMMNITY IN THE NORTHERN MANCHURIA (1924 - 1931]. 2012 , 2, 21-26	
218	The Effect of Water Activation on Chemical Modification of Cellulose and Characterization. 2013 , 14, 977-982	
217	Delignification Effect on Properties of Lignocellulose Nanofibers from Korean White Pine and Their Nanopapers. 2015 , 43, 9-16	1
216	Beating Properties with Swelling agent and Concentration for Preparation of MicroFibrillated Cellulose (MFC). 2015 , 47, 3-10	2
215	Mechanical and Thermal Properties of Hydroxypropyl Cellulose/TEMPO-oxidized Cellulose Nanofibril Composite Films. 2015 , 43, 740-745	2
214	Effect of The Addition of Various Cellulose Nanofibers on The Properties of Sheet of Paper Mulberry Bast Fiber. 2015 , 43, 730-739	
213	Finite Element Analysis of Vane Geometry for Shear Thinning Materials.	1
212	Effects of electron beam treatment on cotton linter for the preparation of nanofibrillated cellulose. 2016 , 48, 68-74	1
211	A comparative study of enzymatic and Fenton pretreatment applied to a birch kraft pulp used for MFC production in a pilot scale high-pressure homogenizer. 2016 , 15, 375-381	
210	Methods and Materials. 2017 , 55-66	
209	Investigation of Porous Structure of Aerogel Prepared from Nanofibrillated Cellulose. 2016 , 48, 17	
208	Evaluation of Grinding Efficiency for the Preparation of Cellulose Nanofibril Treated by Electron Beam Irradiation. 2017 , 49, 118-124	1
207	Rheo-NMR: Applications to Food. 2018 , 1589-1608	1
206	Dondurarak-Kurutma Yfitemi ile fletilmi[Nanosel[lɔz Kompozit Panellerin Yallm Dfigs[]]. Delirlendirmesi (YDD). 56-63	O

(2020-2018)

205	Characteristics of Cellulose Nanofibrils from Holocellulose, Soda-AQ Pulp, Carboxymethylated Soda-AQ Pulp from Moso Bamboo. 2018 , 50, 62-71	О
204	Addition of Preservatives for Cellulose Nanofibril Suspension Against Cellulase Containing Bacteria. 2018 , 50, 102-109	О
203	Characteristics of Cellulose Nanofibril Produced after Quaternary Amine Pretreatment. 2018, 50, 107-113	О
202	Nanocellulose as Polymer Composite Reinforcement Material. 2019 , 409-427	1
201	Casted Wood - Tactile and Visual Aspects When Target Areas Are in Indoor Applications.	
200	Fibrillation Characteristics of Cellulose Nanofibrils with Water Retention Value Method. 2019 , 51, 128-133	О
199	From biorefineries to bioproducts: conversion of pretreated pulp from biorefining streams to lignocellulose nanofibers. 2019 , 18, 233-241	
198	Effect of Surface-Modified Cellulose Nanofibril with Cationic Polyelectrolyte on Drainage and Strength of Paper. 2019 , 51, 29-35	О
197	THE NEW METHOD OF OBTAINING MICROFIBRILLATED CELLULOSE FROM SPRUCE WOOD. 2020 , 303-314	
196	Cellulose Fibers. 2020 , 95-124	1
196 195	Cellulose Fibers. 2020 , 95-124 Fundamental Study on Barrier Coating of Paper Using Cationic Cellulose Nanofibrils. 2020 , 52, 90-98	1
195	Fundamental Study on Barrier Coating of Paper Using Cationic Cellulose Nanofibrils. 2020 , 52, 90-98	1
195 194	Fundamental Study on Barrier Coating of Paper Using Cationic Cellulose Nanofibrils. 2020 , 52, 90-98 Composite of polylactic acid and microcellulose from kombucha membranes. 2020 , 21, 015-026 Evaluation of Anionic Eco-Friendly Flocculants Prepared from Eucalyptus Pulps with Diverse Lignin	1 5 0
195 194 193	Fundamental Study on Barrier Coating of Paper Using Cationic Cellulose Nanofibrils. 2020, 52, 90-98 Composite of polylactic acid and microcellulose from kombucha membranes. 2020, 21, 015-026 Evaluation of Anionic Eco-Friendly Flocculants Prepared from Eucalyptus Pulps with Diverse Lignin Contents for Application in Effluent Treatment. 2020, 13, Research progress of smart response composite hydrogels based on nanocellulose. <i>Carbohydrate</i>	1 5 0
195 194 193	Fundamental Study on Barrier Coating of Paper Using Cationic Cellulose Nanofibrils. 2020, 52, 90-98 Composite of polylactic acid and microcellulose from kombucha membranes. 2020, 21, 015-026 Evaluation of Anionic Eco-Friendly Flocculants Prepared from Eucalyptus Pulps with Diverse Lignin Contents for Application in Effluent Treatment. 2020, 13, Research progress of smart response composite hydrogels based on nanocellulose. Carbohydrate Polymers, 2022, 275, 118741 10.3 The latest achievements in plant cellulose-based biomaterials for tissue engineering focusing on	1 5 0
195 194 193 192	Fundamental Study on Barrier Coating of Paper Using Cationic Cellulose Nanofibrils. 2020, 52, 90-98 Composite of polylactic acid and microcellulose from kombucha membranes. 2020, 21, 015-026 Evaluation of Anionic Eco-Friendly Flocculants Prepared from Eucalyptus Pulps with Diverse Lignin Contents for Application in Effluent Treatment. 2020, 13, Research progress of smart response composite hydrogels based on nanocellulose. Carbohydrate Polymers, 2022, 275, 118741 The latest achievements in plant cellulose-based biomaterials for tissue engineering focusing on skin repair. 2021, 288, 132529	1 5 0 6 6

187 Cellulose Nanofibers for Development of Green Composites. **2020**, 1-18

186	On the development of a continuous methodology to fractionate microfibriallated cellulose. 2020 , 35, 205-214	O
185	Blackberry extend shelf life by nanocellulose and vegetable oil coating. 2020, 4, 54-60	O
184	Flexible and wearable supercapacitors: A short review. 2021 , 44, 103475	7
183	The gorgeous transformation of paper: from cellulose paper to inorganic paper to 2D paper materials with multifunctional properties.	2
182	A green approach to the valorization of kraft lignin for the production of nanocomposite gels to control the release of fertilizer.	O
181	Fruit waste-derived cellulose and graphene-based aerogels: Plausible adsorption pathways for fast and efficient removal of organic dyes. 2021 , 608, 2870-2870	5
180	Active and Robust Composite Films Based on Gelatin and Gallic Acid Integrated with Microfibrillated Cellulose. 2021 , 10,	O
179	Cellulose-Based Nanofibril Composite Materials as a New Approach to Fight Bacterial Infections. 2021 , 9, 732461	O
178	Cellulose-based electrospun nanofibers: a review. 2022 , 29, 25	3
177	Nonleachable Antibacterial Nanocellulose with Excellent Cytocompatible and UV-Shielding Properties Achieved by Counterion Exchange with Nature-Based Phenolic Acids. 2021 , 9, 15755-15767	2
176	Development of novel cellulose-based functional materials. 2021 , 10, 73-83	1
175	Nanocellulose: Recent trends and applications in the food industry. 2022 , 127, 107484	8
174	Barrier packaging solutions from residual biomass: Synergetic properties of CNF and LCNF in films. 2022 , 177, 114493	4
173	Comprehensive study of cellulose nanocrystals acetylation effects on poly (butylene adipate-co-terephthalate) nanocomposite films obtained by solvent casting and heat pressing. 2022 , 177, 114459	1
172	Valorization of mixed office waste as macro-, micro-, and nano-sized particles in recycled paper containerboards for enhanced performance and improved environmental perception. 2022 , 180, 106125	1
171	The effect of repeated alkali pretreatments on the morphological characteristics of cellulose from oil palm empty fruit bunch fiber-reinforced epoxy adhesive composite. 2022 , 114, 103095	O
170	Changes of Micro- and Nanoscopic Morphology of Various Bioresources by Different Milling Systems. 2017 , 45, 737-745	1

Extraction and properties of cellulose for polymer composites. **2022**, 59-86

168	Production of microfibrillated cellulose fibers and their application in polymeric composites. 2022 , 197-229	
167	Fabrication of transparent paper devices from nanocellulose fiber. 2022 , 125707	3
166	Technological and economic barriers of industrial-scale production of nanocellulose. 2022 , 21-39	O
165	Nanocellulose: fascinating and sustainable nanomaterial for papermaking. 2022, 389-407	O
164	Characteristic features and functions of nanocellulose for its feasible application in textile industry. 2022 , 105-122	О
163	Comparative study between mechanical and chemical treatments for the preparation of nanocellulose. 002199832110441	
162	Nanocellulose in paper and wood industry. 2022 , 247-264	1
161	Cellulose through the Lens of Microfluidics: A Review. 2022 , 1, 1-37	3
160	Nanocellulosic Materials for Papermaking and Paper Coating Industry. 2022 , 1-34	
159	Highly acetylated lignocellulose prepared by alkaline extrusion pretreatment assisted acetylation reaction. 2022 , 29, 1487	О
158	Beneficiation of cactus fruit waste seeds for the production of cellulose nanostructures: Extraction and properties 2022 , 203, 302-311	4
157	Nanomaterials for transforming barrier properties of lignocellulosic biomass towards potential applications 🖪 review. 2022 , 316, 123444	2
156	Cellulose-based nanobiosorbents: An insight. 2022 , 251-273	О
155	Mechanochemical Transformations of Biomass into Functional Materials 2022,	1
154	Cellulose Amphiphilic Materials: Chemistry, Process and Applications 2022 , 14,	2
153	Cellulose and Its Nano-Derivatives as a Water-Repellent and Fire-Resistant Surface: A Review 2021 , 15,	О
152	Nanocellulose Membranes for Water/Oil Separation. 2021 , 1-37	

Nanocellulose Membranes for Air Filtration. **2022**, 1-32

150	Plastic-Free Bioactive Paper Coatings, Way to Next-Generation Sustainable Paper Packaging Application: A Review. 2022 , 12, 9-27	1
149	Barrier Properties of Bionanocomposite Films. 2022 , 103-123	О
148	Nanocellulose: Chemistry, preparation, and applications in the food industry. 2022 , 155-177	
147	The sustainability of phytomass-derived materials: thermodynamical aspects, life cycle analysis and research perspectives. 2022 , 24, 2653-2679	О
146	Introduction to nanocellulose production from biological waste. 2022, 1-37	0
145	Nanocellulose biocomposites in specialty papermaking. 2022 , 353-374	
144	Fabrication and Characterization of Hydrophobic Cellulose Nanofibrils/Silica Nanocomposites with Hexadecyltrimethoxysilane 2022 , 14,	2
143	A Green Catechol-Containing Cellulose Nanofibrils-Cross-Linked Adhesive 2022,	1
142	Antimicrobial Activity of Cellulose Based Materials 2022 , 14,	2
141	Symmetry between StructureAntibacterial Effect of Polymers Functionalized with Phosphonium Salts. 2022 , 14, 572	
140	Recent progress in cellulose-based composites towards flame retardancy applications. 2022 , 244, 124677	1
139	Surface functionalization and size modulate the formation of reactive oxygen species and genotoxic effects of cellulose nanofibrils 2022 , 19, 19	1
138	Life cycle assessment of cellulose nanofibril films via spray deposition and vacuum filtration pathways for small scale production. 2022 , 342, 130890	1
137	Viability of cellulose nanofibres powder and silica fume in self-compacting concrete rheology, hardened properties, and microstructure. 2022 ,	
136	Nanocrystalline cellulose extracted from bast fibers: Preparation, characterization, and application <i>Carbohydrate Polymers</i> , 2022 , 290, 119462	4
135	Modification of Cellulose Micro- and Nanomaterials to Improve Properties of Aliphatic Polyesters/Cellulose Composites: A Review 2022 , 14,	4
134	Antimicrobial food packaging integrating polysaccharide-based substrates with green antimicrobial agents: A sustainable path 2022 , 155, 111096	4

133	Thermal barrier coatings for cellulosic substrates: A statistically designed molecular dynamics study of the coating formulation effects on thermal conductivity. 2022 , 587, 152879	2
132	Surface modifications of cellulose nanocrystals: Processes, properties, and applications. 2022 , 130, 107689	6
131	POWDERED CELLULOSIC MATERIALS: OVERVIEW, CLASSIFICATION, CHARACTERISTICS AND FIELDS OF APPLICATION. 2021 , 31-45	
130	Minimizing Oxygen Permeability in Chitin/Cellulose Nanomaterial Coatings by Tuning Chitin Deacetylation. 2022 , 10, 124-133	2
129	Nanofiber Aerogels. 2022 , 345-371	
128	Rheological Properties of Nanocellulose Dispersions in the Dilute Region: Current Understanding and Future Perspectives. 2022 , 50, 73-82	
127	Preparation and benchmarking of novel cellulose nanopaper 2022 , 29, 1-19	1
126	Strategies to mitigate the synergistic effects of moist-heat aging on TEMPO-oxidized nanocellulose. 2022 , 109943	1
125	Recent Advances in Chemically Modified Cellulose and Its Derivatives for Food Packaging Applications: A Review 2022 , 14,	4
124	Sustainable synthesis and characterization of Enset cellulose nanocrystals (E-CNp) from Enset ventricosum biomass and its application in the fabrication of Enset cellulose nanocomposite (E-CNc). 1	
123	Exploring cellulose nanocrystals obtained from olive tree wastes as sustainable crop protection tool against bacterial diseases 2022 , 12, 6149	3
122	Data_Sheet_1.docx. 2018,	
121	Polymer Nanocomposite Matrix-Based Nanoproducts. 2022 , 243-256	
120	Physicochemical characterization of natural nanomaterial as a sustainable replacement of cement. 2022 ,	
119	Genotoxicity of Three Micro/Nanocelluloses with Different Physicochemical Characteristics in MG-63 and V79 Cells. 2022 , 12, 91-108	1
118	Hydrophobicity improvement of cellulose nanofibrils films by stearic acid and modified precipitated calcium carbonate coating. 1	O
117	Recent advancements, trends, fundamental challenges and opportunities in spray deposited cellulose nanofibril films for packaging applications 2022 , 155654	1
116	Utilization of TEM with Automated Tile Scan Technique for Length Determination of CNF. 2022 , 54, 9-17	

115	Tailoring the properties of nanocellulose-sepiolite hybrid nanopapers by varying the nanocellulose type and clay content.	1
114	Solar-Boosted Paper-Based Microfluidic Fuel Cells for Miniaturized Power Sources. 2200154	О
113	Recyclable grease-proof cellulose nanocomposites with enhanced water resistance for food serving applications.	1
112	Nanocelluloses: Production, Characterization and Market 2022 , 1357, 129-151	
111	Nanocellulose in tissue engineering and bioremediation: mechanism of action. 2022 , 13, 12823-12833	
110	Closing the Carbon Loop in the Circular Plastics Economy. 2200247	1
109	A low-cost environmentally friendly approach to isolate lignin containing micro and nanofibrillated cellulose from Eucalyptus globulus bark by steam explosion.	О
108	Dissolution and regeneration of cellulose from N-methylmorpholine N-oxide and fabrication of nanofibrillated cellulose.	
107	Effect of Surface Modification on the Pulmonary and Systemic Toxicity of Cellulose Nanofibrils.	1
106	Prospecting cellulose fibre-reinforced composite membranes for sustainable remediation and mitigation of emerging contaminants. 2022 , 135291	2
105	Multilayers of Renewable Nanostructured Materials with High Oxygen and Water Vapor Barriers for Food Packaging.	О
104	Nanocellulose Membranes for Water/Oil Separation. 2022 , 933-970	
103	Nanocellulose Membranes for Air Filtration. 2022 , 777-808	
102	Nanocellulosic Materials for Papermaking and Paper Coating Industry. 2022 , 1001-1033	
101	Nanocellulose-Based Composite Materials Used in Drug Delivery Systems. 2022 , 14, 2648	4
100	Improving water vapor barrier of cellulose based food packaging using double layer coatings and cellulose nanofibers. 2022 , 33, 100895	O
99	Effect of beating degree of fiber on the development of porosity in polyacrylonitrile-based activated carbon fiber paper. 2022 , 128, 109228	
98	Rheology of concentrated and highly concentrated enzymatic cellulose nanofibril hydrogels during lubricated compression. <i>Carbohydrate Polymers</i> , 2022 , 119911	10.3 0

97	Nanocellulose as a promising substrate for advanced sensors and their applications. 2022, 218, 473-487	1
96	Cellulose/polyaniline hybrid nanocomposites: Design, fabrication, and emerging multidimensional applications. 2022 , 187, 115356	2
95	Isolation Cellulose Nanofibers from Date-Palm Tree Leaflets (Phoenix dactylifera L.) by Ball-Milling Technique. 2022 , 22, 241-247	
94	SORBENTS BASED ON NON-CARBONIZED VEGE©TABLE RAW MATERIALS. 2022 , 88, 37-68	O
93	Electrochromic Displays Screen Printed on Transparent Nanocellulose-Based Substrates. 2200012	O
92	Cellulose nanocrystals (CNCs) derived from dyed and bleached cotton-based textile waste. 2022 , 05,	
91	Effects of enzyme-assisted ultrasonic treatment to the properties of nanofibrils isolated from wheat straw. 2022 ,	
90	A kinetic and isotherm study on removing methylene blue from aqueous solutions by oxidized cellulose nanostructure.	O
89	Cellulose nanofibers and composites: An insight into basics and biomedical applications. 2022 , 75, 103601	1
88	Oxidation treatments to convert paper-grade Eucalyptus kraft pulp into microfibrillated cellulose. 2022 , 296, 119946	1
87	Modification of nanocellulose films in deep eutectic solvents using vinyl esters.	0
86	Nanocellulose from Lignocellulosic Biomass: Synthesis. 2022 , 1-8	O
85	Protein Recovery Using Biodegradable Polymer. 2022 , 735-771	0
84	Extraction and Characterization of Cellulose Nanocrystals from Anchote (Coccinia Abyssinica) Bagasse.	O
83	Environmental Properties and Applications of Cellulose and Chitin-Based Bionanocomposites. 2023 , 99-140	O
82	Evaluating 3D-printability of polyvinyl alcohol (PVA) and microfibrillated cellulose (MFC) composite inks. 2022 ,	O
81	Upcycling of waste artificial turf for high-performance wood-plastic composites.	0
80	Functionalized Cellulose Sheets with Fertilizers Applied as Multimodal Agricultural Supports for Seedling Cultivation.	O

79	Relationships between Size Distribution, Morphological Characteristics, and Viscosity of Cellulose Nanofibril Dispersions. 2022 , 14, 3843	O
78	Enhancing the Matrix B iber Interface with a Surfactant Leads to Improved Performance Properties of 3D Printed Composite Materials Containing Cellulose Nanofibrils. 2022 , 14, 44841-44848	O
77	Benchmarking the Production of Cellulose Nanofibres: Biomass Feedstock, Mechanical Processing, and Nanopaper Performance.	O
76	Recent progress in nanocomposites of carbon dioxide fixation derived reproducible biomedical polymers. 10,	O
75	Phenol formaldehyde resin modified by cellulose and lignin nanomaterials: Review and recent progress. 2022 ,	1
74	Study of Progress on Nanocrystalline Cellulose and Natural Fiber Reinforcement Biocomposites. 2022 , 2022, 1-16	1
73	Polyamide-6/cellulose nanocomposites: Influence of fiber treatment and screw rotation on nanofibrillation of jute during extrusion process.	0
7 2	Improving mechanical performance and functionality of birch veneer with mechano-enzymatic nanocellulose coating.	O
71	Different Preparation Method of Nanocellulose from Macaranga gigantea and Its Preliminary Study on Packaging Film Potential. 2022 , 14, 4591	0
70	Adsorption of Oil by 3-(Triethoxysilyl) Propyl Isocyanate-Modified Cellulose Nanocrystals. 2022 , 10, 2154	О
69	Sources, Chemical Functionalization, and Commercial Applications of Nanocellulose and Nanocellulose-Based Composites: A Review. 2022 , 14, 4468	O
68	Nanocellulosellationic starchleolloidal silica systems for papermaking: Effects on process and paper properties. 2022 , 21, 563-570	О
67	Production of cellulose nanocrystals extracted from Pennisetum purpureum fibers and its application as a lubricating additive in engine oil. 2022 , e11315	0
66	A Critical Review on Modification Methods of Cement Composites with Nanocellulose and Reaction Conditions during Nanocellulose Production. 2022 , 15, 7706	О
65	Fully bio-based supramolecular gel based on cellulose nanowhisker gallate by cyclodextrin host-guest chemistry. 2023 , 299, 120222	0
64	Enzymatic treatment processes for the production of cellulose nanomaterials: A review. 2023 , 299, 120199	2
63	Influence of halloysite nanotubes/microfibrillated cellulose on pine leaves waste based ethylene scavenging composite paper for food packaging applications. 2023 , 231, 106726	1
62	Influence of thickeners (microfibrillated cellulose, starch, xanthan gum) on rheological, tribological and sensory properties of low-fat mayonnaises. 2023 , 136, 108242	O

61	One-pot preparation of micro-fibrillated cellulose fiber (MCF) through the synergistic action of g-C3N4 and diluted acid.	O
60	Alkaline hydrolysis of biomass as an alternative green method for bioplastics preparation: in situ cellulose nanofibrillation. 2022 , 140171	1
59	High-performance nano-biocomposite ionic soft actuators based on microfibrillated cellulose/ionic liquid electrolyte membrane.	О
58	Material properties and water resistance of inorganic@rganic polymer coated cellulose paper and nanopaper.	Ο
57	Microwave-assisted esterification of bleached and unbleached cellulose nanofibers. 2023, 191, 115970	О
56	Enzymatic synthesis of cellulose nanocrystals from lemongrass and its application in improving anti-cancer drug release, uptake and efficacy. 2023 , 192, 115933	1
55	Nanomaterials as a cutting edge in the removal of toxic contaminants from water. 2023 , 295, 127092	O
54	Green Cellulose Nanofibers. 2022, 1-9	Ο
53	Mechanical properties of cellulose-based multiscale composites: A review.	1
52	Nanocellulose: A Fundamental Material for Science and Technology Applications. 2022 , 27, 8032	1
51	Improving Barrier Properties of Xylan-Coated Food Packaging Papers with Alkyl Ketene Dimer. 2022 , 14, 16255	0
50	A green, efficient and economical polypeptide - modified bamboo fiber and its application in glycopeptide antibiotics adsorption.	Ο
49	Birch wood biorefinery into microcrystalline, microfibrillated, and nanocrystalline celluloses, xylose, and adsorbents.	1
48	Enhancing Stability of High-Concentration Erricalcium Phosphate Suspension for Biomedical Application. 2023 , 16, 228	0
47	Organosolv Lignin as a Green Sizing Agent for Thermoformed Pulp Products. 2022 , 7, 46583-46593	O
46	Preparation and Applications of Cellulose Nanomaterials.	O
45	Spray-dried microfibrillated cellulose particles as texture modifier in liquid foods and their effect on rheological, tribological and sensory properties. 2022 , 108398	О
44	Benchmarking the Production of Cellulose Nanofibres: Biomass Feedstock, Mechanical Processing, and Nanopaper Performance.	O

43	Effect of deep eutectic solvent pretreatment on defibrillation efficiency and characteristics of lignocellulose nanofibril.	0
42	A review on lignocellulose chemistry, nanostructure, and their impact on interfacial interactions for sustainable products development.	O
41	Wood Plastic Composites (WPCs): Applications of Nanomaterials. 2023, 97-133	О
40	Fabrication and novel applications of polymeric biomaterials for tissue scaffolds. 2022,	Ο
39	Synthesis and Applications of Cellulose Nanomaterials Derived from Agricultural Waste and Byproducts. 2023 , 471-500	0
38	Alkyl carbamate ionic liquids for permeabilization of microalgae biomass to enhance lipid recovery for biodiesel production. 2023 , 9, e12754	O
37	A low-voltage electro-ionic soft actuator based on graphene nanoplatelets-sulfonated cellulose nanowhisker combined with microfibrillated cellulose. 2023 , 58, 466-477	0
36	Oxidized cellulose nanofibers from sugarcane bagasse obtained by microfluidization: Morphology and rheological behavior. 2023 , 304, 120505	Ο
35	The barrier properties of sustainable multiphase and multicomponent packaging materials: A review. 2023 , 133, 101071	0
34	A biobased binder of emulsion type that provides unique and durable wet strength and hydrophobicity to paper and nonwoven. 2023 , 193, 116126	Ο
33	Fabrication of Cellulose Nanocrystal (CNCs) Based Biosorbent From Oil Palm Trunks Through Acid Hydrolysis With Sonication Assisted and Adsorption Kinetic Study. 2022 , 25, 307-315	0
32	Engineering the paper production by combined fiber fractionation and reinforcement with microfibrillated cellulose.	Ο
31	Nanocellulose from agro-waste: a comprehensive review of extraction methods and applications.	1
30	Robust, Flexible, and High-Barrier Films from Bacterial Cellulose Modified by Long-Chain Alkenyl Succinic Anhydrides.	O
29	Recent advances of nanocellulose as biobased adsorbent for heavy metal ions removal: A sustainable approach integrating with waste management. 2023 , 20, 100791	0
28	Pulping and papermaking of reed bagasse. 2023, 197-212	O
27	Sustainability of cellulose micro-/nanofibers: A comparative life cycle assessment of pathway technologies. 2023 , 874, 162482	0
26	Structural properties of coated papers with cellulosic nanofibres using different metering systems and drying technologies. 2023 , 179, 107543	Ο

25	Oxygen permeability of regenerated cellulose films with different water regains. 2023, 313, 120849	О
24	Resilient high oxygen barrier multilayer films of nanocellulose and polylactide. 2023 , 312, 120761	Ο
23	Facile Microembossing Process for Microchannel Fabrication for Nanocellulose-Paper-Based Microfluidics. 2023 , 15, 6420-6430	0
22	A self-powered wearable piezoelectric nanogenerator for physiological monitoring based on lead zirconate titanate/microfibrillated cellulose@polyvinyl alcohol (PZT/MFC@PVA) composition. 2023 , 460, 141598	O
21	Improving mechanical performance and functionality of birch veneer with mechano-enzymatic microfibrillated cellulose coating. 2023 , 30, 3237-3254	Ο
20	Understanding NanocelluloseWater Interactions: Turning a Detriment into an Asset. 2023 , 123, 1925-2015	1
19	Micro-Fibrillated Cellulose Prepared from Sorghum Bicolor (L.) Moench by TEMPO-Mediated Oxidation Treatment. 2023 , 9-16	0
18	Biomass-Derived Materials for Interface Engineering in Organic/Perovskite Photovoltaic and Light-Emitting Devices. 2023 , 8,	O
17	Cationic cellulose nanocrystals as sustainable green material for multi biological applications via potential. 1-25	1
16	Review on Hybrid Reinforced Polymer Matrix Composites with Nanocellulose, Nanomaterials, and Other Fibers. 2023 , 15, 984	Ο
15	Recent developments in GO/Cellulose based composites: Properties, synthesis, and its applications. 2023 , 270, 125786	0
14	Recent Developments in Chemical Derivatization of Microcrystalline Cellulose (MCC): Pre-Treatments, Functionalization, and Applications. 2023 , 28, 2009	O
13	Critical impact of nanocellulose on the synthesis of porous cellulose monolith with oriented microchannels: Structure control, mechanics, and mass transport.	0
12	Mechanistic aspects of nanocellulosedationic starchdolloidal silica systems for papermaking. 2023 , 22, 107-115	O
11	Criteria for Assessing Sustainability of Lignocellulosic Wastes: Applied to the Cellulose Nanofibril Packaging Production in the UK. 2023 , 15, 1336	0
10	A critical review on cellulose nano structures based polymer nanocomposites for packaging applications. 2022 , 61, 1933-1958	O
9	Preventing the Collapse Behavior of Polyurethane Foams with the Addition of Cellulose Nanofiber. 2023 , 15, 1499	O
8	Development of nanocellulose fiber reinforced starch biopolymer composites: a review. 2023 ,	О

7	Extraktion von Zellstoff aus Nicht-Holzpflanzen und Vergleich mit Holzpflanzen.	O
6	Characterization of Cellulose/Polyvinyl Alcohol/Expanded Graphite 3D Porous Foam and Adsorption of Methylene Blue. 2023 , 20,	O
5	Pre-treatment with calcium hydroxide and accelerated carbonation for cellulosic pulp fibrillation. 2023 ,	O
4	Wood Biorefineries. 2023 , 1713-1751	O
3	Advanced separator engineering strategies for reversible electrochemical zinc storage.	O
2	Nanocellulose-Based Thermoplastic Polyurethane Biocomposites with Shape Memory Effect. 2023 , 7, 168	O
1	Carboxymethyl Cellulose from Banana Rachis: A Potential Edible Coating to Extend the Shelf Life of Strawberry Fruit. 2023 , 13, 1058	O