Julien Bras

List of Publications by Year
in descending order

189 papers	17,902 citations	19657 61 h-index	14208 128 g-index
191 all docs	191 docs citations	191 times ranked	13286 citing authors

#	Article	IF	Citations
1	Microfibrillated cellulose â€“ Its barrier properties and applications in cellulosic materials: A review. Carbohydrate Polymers, 2012, 90, 735-764.	10.2	1,395
2	Production of cellulose nanofibrils: A review of recent advances. Industrial Crops and Products, 2016, 93, 2-25.	5.2	1,186
3	Cellulosic Bionanocomposites: A Review of Preparation, Properties and Applications. Polymers, 2010, 2, 728-765.	4.5	1,080
4	Starch Nanoparticles: A Review. Biomacromolecules, 2010, 11, 1139-1153.	5.4	860
5	Cellulose Whiskers versus Microfibrils: Influence of the Nature of the Nanoparticle and its Surface Functionalization on the Thermal and Mechanical Properties of Nanocomposites. Biomacromolecules, 2009, 10, 425-432.	5.4	720
6	Current characterization methods for cellulose nanomaterials. Chemical Society Reviews, 2018, 47, 2609-2679.	38.1	690
7	Nanofibrillated Cellulose Surface Modification: A Review. Materials, 2013, 6, 1745-1766.	2.9	528
8	Recent advances in surface-modified cellulose nanofibrils. Progress in Polymer Science, 2019, 88, 241-264.	24.7	447
9	Use of nanocellulose in printed electronics: a review. Nanoscale, 2016, 8, 13131-13154.	5.6	367
10	New Process of Chemical Grafting of Cellulose Nanoparticles with a Long Chain Isocyanate. Langmuir, 2010, 26, 402-411.	3.5	342
11	Water sorption behavior and gas barrier properties of cellulose whiskers and microfibrils films. Carbohydrate Polymers, 2011, 83, 1740-1748.	10.2	334
12	Mechanical, barrier, and biodegradability properties of bagasse cellulose whiskers reinforced natural rubber nanocomposites. Industrial Crops and Products, 2010, 32, 627-633.	5.2	314
13	Industrial and crop wastes: A new source for nanocellulose biorefinery. Industrial Crops and Products, 2016, 93, 26-38.	5.2	263
14	Isolation and structural characterization of cellulose nanocrystals extracted from garlic straw residues. Industrial Crops and Products, 2016, 87, 287-296.	5.2	239
15	RENEWABLE FIBERS AND BIO-BASED MATERIALS FOR PACKAGING APPLICATIONS â€“ A REVIEW OF RECENT DEVELOPMENTS. BioResources, 2012, 7, 2506-2552.	1.0	216
16	Flexibility and Color Monitoring of Cellulose Nanocrystal Iridescent Solid Films Using Anionic or Neutral Polymers. ACS Applied Materials & Interfaces, 2015, 7, 4010-4018.	8.0	196
17	Influence of chemical surface modification of cellulose nanowhiskers on thermal, mechanical, and barrier properties of poly(lactide) based bionanocomposites. European Polymer Journal, 2013, 49, 3144-3154.	5.4	186
18	Morphological investigation of nanoparticles obtained from combined mechanical shearing, and enzymatic and acid hydrolysis of sisal fibers. Cellulose, 2010, 17, 1147-1158.	4.9	183

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19	High reinforcing capability cellulose nanocrystals extracted from Syngonanthus nitens (Capim) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.9	181
20	Cellulose modified fibres in cement based composites. Composites Part A: Applied Science and Manufacturing, 2009, 40, 2046-2053.	7.6	166
21	Production of cellulose nanocrystals from sugarcane bagasse fibers and pith. Industrial Crops and Products, 2016, 93, 48-57.	5.2	158
22	Green Process for Chemical Functionalization of Nanocellulose with Carboxylic Acids. Biomacromolecules, 2014, 15, 4551-4560.	5.4	150
23	A new quality index for benchmarking of different cellulose nanofibrils. Carbohydrate Polymers, 2017, 174, 318-329.	10.2	145
24	Correlation between stiffness of sheets prepared from cellulose whiskers and nanoparticles dimensions. Carbohydrate Polymers, 2011, 84, 211-215.	10.2	140
25	Influence of native starch's properties on starch nanocrystals thermal properties. Carbohydrate Polymers, 2012, 87, 658-666.	10.2	140
26	Thermal and mechanical properties of bio-nanocomposites reinforced by Luffa cylindrica cellulose nanocrystals. Carbohydrate Polymers, 2013, 91, 711-717.	10.2	137
27	HPMC reinforced with different cellulose nano-particles. Carbohydrate Polymers, 2011, 86, 1549-1557.	10.2	135
28	Subcritical Water: A Method for Green Production of Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2015, 3, 2839-2846.	6.7	134
29	Influence of botanic origin and amylose content on the morphology of starch nanocrystals. Journal of Nanoparticle Research, 2011, 13, 7193-7208.	1.9	126
30	Isolation and characterization of cellulose nanocrystals from industrial by-products of Agave tequilana and barley. Industrial Crops and Products, 2014, 62, 552-559.	5.2	125
31	Water transport properties of bio-nanocomposites reinforced by Luffa cylindrica cellulose nanocrystals. Journal of Membrane Science, 2013, 427, 218-229.	8.2	123
32	Enzymatic Pretreatment for Preparing Starch Nanocrystals. Biomacromolecules, 2012, 13, 132-137.	5.4	119
33	Impact of different coating processes of microfibrillated cellulose on the mechanical and barrier properties of paper. Journal of Materials Science, 2014, 49, 2879-2893.	3.7	113
34	Microfibrillated cellulose coatings as new release systems for active packaging. Carbohydrate Polymers, 2014, 103, 528-537.	10.2	113
35	Mechanical properties of natural rubber nanocomposites reinforced with cellulosic nanoparticles obtained from combined mechanical shearing, and enzymatic and acid hydrolysis of sisal fibers. Cellulose, 2011, 18, 57-65.	4.9	110
36	Surface cationized cellulose nanofibrils for the production of contact active antimicrobial surfaces. Carbohydrate Polymers, 2016, 135, 239-247.	10.2	105

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37	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites Part I. Processing and morphology. Carbohydrate Polymers, 2013, 96, 611-620.	10.2	104
38	Insight into thermal stability of cellulose nanocrystals from new hydrolysis methods with acid blends. Cellulose, 2019, 26, 507-528.	4.9	103
39	Pilot-Scale Twin Screw Extrusion and Chemical Pretreatment as an Energy-Efficient Method for the Production of Nanofibrillated Cellulose at High Solid Content. ACS Sustainable Chemistry and Engineering, 2017, 5, 6524-6531.	6.7	102
40	Water Redispersible Dried Nanofibrillated Cellulose by Adding Sodium Chloride. Biomacromolecules, 2012, 13, 4118-4125.	5.4	100
41	Hybrid poly(lactic acid)/nanocellulose/nanoclay composites with synergistically enhanced barrier properties and improved thermomechanical resistance. Polymer International, 2016, 65, 988-995.	3.1	100
42	Preparation and characterization of new cellulose nanocrystals from marine biomass Posidonia oceanica. Industrial Crops and Products, 2015, 72, 175-182.	5.2	97
43	Cellulose surface grafting with polycaprolactone by heterogeneous click-chemistry. European Polymer Journal, 2008, 44, 4074-4081.	5.4	96
44	Comparison of nanocrystals and nanofibers produced from shrimp shell Î±-chitin: From energy production to material cytotoxicity and Pickering emulsion properties. Carbohydrate Polymers, 2018, 196, 385-397.	10.2	95
45	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: Properties evaluation. Carbohydrate Polymers, 2013, 96, 621-627.	10.2	94
46	Evidence of Micro- and Nanoscaled Particles during Starch Nanocrystals Preparation and Their Isolation. Biomacromolecules, 2011, 12, 3039-3046.	5.4	93
47	Surface grafting of cellulose nanocrystals with natural antimicrobial rosin mixture using a green process. Carbohydrate Polymers, 2016, 137, 1-8.	10.2	91
48	Impact of the nature and shape of cellulosic nanoparticles on the isothermal crystallization kinetics of poly(Îµ-caprolactone). European Polymer Journal, 2011, 47, 2216-2227.	5.4	89
49	Processing and dimensional changes of cement based composites reinforced with surface-treated cellulose fibres. Cement and Concrete Composites, 2013, 37, 68-75.	10.7	83
50	Impact of ink formulation on carbon nanotube network organization within inkjet printed conductive films. Carbon, 2011, 49, 2603-2614.	10.3	81
51	Effect of chemically modified nanofibrillated cellulose addition on the properties of fiber-based materials. Industrial Crops and Products, 2013, 48, 98-105.	5.2	81
52	A comparison of partially acetylated nanocellulose, nanocrystalline cellulose, and nanoclay as fillers for highâ€performance polylactide nanocomposites. Journal of Applied Polymer Science, 2016, 133, .	2.6	76
53	Inkjet printing of nanocelluloseâ€“silver ink onto nanocellulose coated cardboard. RSC Advances, 2017, 7, 15372-15381.	3.6	76
54	Nisin anchored cellulose nanofibers for long term antimicrobial active food packaging. RSC Advances, 2016, 6, 12422-12430.	3.6	75

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55	Supramolecular aromatic interactions to enhance biodegradable film properties through incorporation of functionalized cellulose nanocrystals. Composites Part A: Applied Science and Manufacturing, 2016, 83, 80-88.	7.6	73
56	Nanofibrillated cellulose surface grafting in ionic liquid. Soft Matter, 2012, 8, 8338.	2.7	72
57	Surface modification of cellulose by PCL grafts. Acta Materialia, 2010, 58, 792-801.	7.9	71
58	Elaboration of a new antibacterial bio-nano-material for food-packaging by synergistic action of cyclodextrin and microfibrillated cellulose. Innovative Food Science and Emerging Technologies, 2014, 26, 330-340.	5.6	68
59	Extraction and process analysis of high aspect ratio cellulose nanocrystals from corn (Zea mays) agricultural residue. Industrial Crops and Products, 2017, 108, 257-266.	5.2	68
60	Non leaching biomimetic antimicrobial surfaces via surface functionalisation of cellulose nanofibers with aminosilane. Cellulose, 2016, 23, 795-810.	4.9	66
61	Effect of variable aminoalkyl chains on chemical grafting of cellulose nanofiber and their antimicrobial activity. Materials Science and Engineering C, 2017, 75, 760-768.	7.3	65
62	Rheology of cellulose nanofibrils/silver nanowires suspension for the production of transparent and conductive electrodes by screen printing. Applied Surface Science, 2017, 394, 160-168.	6.1	64
63	Organization of aliphatic chains grafted on nanofibrillated cellulose and influence on final properties. Cellulose, 2012, 19, 1957-1973.	4.9	63
64	Production of lignocellulose nanofibers from wheat straw by different fibrillation methods. Comparison of its viability in cardboard recycling process. Journal of Cleaner Production, 2019, 239, 118083.	9.3	63
65	Active bio-based food-packaging: Diffusion and release of active substances through and from cellulose nanofiber coating toward food-packaging design. Carbohydrate Polymers, 2016, 149, 40-50.	10.2	62
66	Renewable fibers and bio-based materials for packaging applications â€" A review of recent developments. BioResources, 2012, 7, 2506-2552.	1.0	62
67	Cellulose phosphorylation comparison and analysis of phosphorate position on cellulose fibers. Carbohydrate Polymers, 2020, 229, 115294.	10.2	61
68	Cellulose nanocrystals as new bio-based coating layer for improving fiber-based mechanical and barrier properties. Journal of Materials Science, 2017, 52, 3048-3061.	3.7	60
69	Enzyme-assisted isolation of microfibrillated cellulose from date palm fruit stalks. Industrial Crops and Products, 2014, 55, 102-108.	5.2	59
70	Effect of Tannic Acid and Cellulose Nanocrystals on Antioxidant and Antimicrobial Properties of Gelatin Films. ACS Sustainable Chemistry and Engineering, 2021, 9, 8539-8549.	6.7	57
71	Surface functionalization of cellulose by grafting oligoether chains. Materials Chemistry and Physics, 2010, 120, 438-445.	4.0	56
72	Substitution of nanoclay in high gas barrier films of cellulose nanofibrils with cellulose nanocrystals and thermal treatment. Cellulose, 2015, 22, 1227-1241.	4.9	56

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73	Highly absorbent cellulose nanofibrils aerogels prepared by supercritical drying. Carbohydrate Polymers, 2020, 229, 115560.	10.2	56
74	The influence of carbon nanotubes in inkjet printing of conductive polymer suspensions. Nanotechnology, 2009, 20, 385701.	2.6	54
75	Mechanical and barrier properties of cardboard and 3D packaging coated with microfibrillated cellulose. Journal of Applied Polymer Science, 2014, 131, .	2.6	54
76	Charge density modification of carboxylated cellulose nanocrystals for stable silver nanoparticles suspension preparation. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	54
77	Oxygen and water vapor permeability of fully substituted long chain cellulose esters (LCCE). Cellulose, 2007, 14, 367-374.	4.9	53
78	Infra-red assisted sintering of inkjet printed silver tracks on paper substrates. Journal of Nanoparticle Research, 2011, 13, 3815-3823.	1.9	53
79	Melt extruded nanocomposites of polybutylene adipateâ€<i>co</i>â€terephthalate (PBAT) with phenylbutyl isocyanate modified cellulose nanocrystals. Journal of Applied Polymer Science, 2016, 133, .	2.6	53
80	Natural copaiba oil as antibacterial agent for bio-based active packaging. Industrial Crops and Products, 2015, 70, 134-141.	5.2	51
81	Evaluation of the effects of chemical composition and refining treatments on the properties of nanofibrillated cellulose films from sugarcane bagasse. Industrial Crops and Products, 2016, 91, 238-248.	5.2	51
82	Mechanical and antibacterial properties of a nanocellulose-polypyrrole multilayer composite. Materials Science and Engineering C, 2016, 69, 977-984.	7.3	51
83	A study of the production of cellulose nanocrystals through subcritical water hydrolysis. Industrial Crops and Products, 2016, 93, 88-95.	5.2	49
84	Controlled release of carvacrol and curcumin: bio-based food packaging by synergism action of TEMPO-oxidized cellulose nanocrystals and cyclodextrin. Cellulose, 2018, 25, 1249-1263.	4.9	49
85	Impact of sonication on the rheological and colloidal properties of highly concentrated cellulose nanocrystal suspensions. Cellulose, 2019, 26, 7619-7634.	4.9	49
86	Controlled release and long-term antibacterial activity of chlorhexidine digluconate through the nanoporous network of microfibrillated cellulose. Cellulose, 2014, 21, 4429-4442.	4.9	48
87	Improvement of the Thermal Stability of TEMPOâ€Oxidized Cellulose Nanofibrils by Heatâ€Induced Conversion of Ionic Bonds to Amide Bonds. Macromolecular Rapid Communications, 2016, 37, 1033-1039.	3.9	48
88	Eco-friendly gelatin films with rosin-grafted cellulose nanocrystals for antimicrobial packaging. International Journal of Biological Macromolecules, 2020, 165, 2974-2983.	7.5	48
89	Impact of bleaching pine fibre on the fibre/cement interface. Journal of Materials Science, 2012, 47, 4167-4177.	3.7	47
90	Chemically extracted nanocellulose from sisal fibres by a simple and industrially relevant process. Cellulose, 2017, 24, 107-118.	4.9	47

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91	Designed cellulose nanocrystal surface properties for improving barrier properties in polylactide nanocomposites. Carbohydrate Polymers, 2018, 183, 267-277.	10.2	46
92	Polypyrrole/nanocellulose composite for food preservation: Barrier and antioxidant characterization. Food Packaging and Shelf Life, 2017, 12, 1-8.	7.5	45
93	Contact Antimicrobial Surface Obtained by Chemical Grafting of Microfibrillated Cellulose in Aqueous Solution Limiting Antibiotic Release. ACS Applied Materials & Interfaces, 2015, 7, 18076-18085.	8.0	44
94	Engineered pigments based on iridescent cellulose nanocrystal films. Carbohydrate Polymers, 2015, 122, 367-375.	10.2	44
95	Ceramic membrane filtration for isolating starch nanocrystals. Carbohydrate Polymers, 2011, 86, 1565-1572.	10.2	43
96	Positive impact of cellulose nanofibrils on silver nanowire coatings for transparent conductive films. Journal of Materials Chemistry C, 2016, 4, 10945-10954.	5.5	43
97	Antibacterial activity and biodegradability assessment of chemically grafted nanofibrillated cellulose. Materials Science and Engineering C, 2014, 45, 477-483.	7.3	41
98	Nanocomposites with functionalised polysaccharide nanocrystals through aqueous free radical polymerisation promoted by ozonolysis. Carbohydrate Polymers, 2016, 135, 256-266.	10.2	41
99	Polymerization of glycidyl methacrylate from the surface of cellulose nanocrystals for the elaboration of PLA-based nanocomposites. Carbohydrate Polymers, 2020, 234, 115899.	10.2	41
100	Effect of different carboxylic acids in cyclodextrin functionalization of cellulose nanocrystals for prolonged release of carvacrol. Materials Science and Engineering C, 2016, 69, 1018-1025.	7.3	40
101	Grafting of cellulose by fluorine-bearing silane coupling agents. Materials Science and Engineering C, 2010, 30, 343-347.	7.3	39
102	Production of fire-retardant phosphorylated cellulose fibrils by twin-screw extrusion with low energy consumption. Cellulose, 2019, 26, 5635-5651.	4.9	39
103	Ice-templated freeze-dried cryogels from tunicate cellulose nanocrystals with high specific surface area and anisotropic morphological and mechanical properties. Cellulose, 2020, 27, 233-247.	4.9	38
104	Controlled release of chlorhexidine digluconate using Î²-cyclodextrin and microfibrillated cellulose. Colloids and Surfaces B: Biointerfaces, 2014, 121, 196-205.	5.0	37
105	Nanocomposites of PBAT and cellulose nanocrystals modified by <i>in situ</i> polymerization and melt extrusion. Polymer Engineering and Science, 2016, 56, 1339-1348.	3.1	37
106	Î²-Cyclodextrin-grafted TEMPO-oxidized cellulose nanofibers for sustained release of essential oil. Journal of Materials Science, 2017, 52, 3849-3861.	3.7	37
107	One-step superhydrophobic coating using hydrophobized cellulose nanofibrils. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 544, 152-158.	4.7	37
108	Alkaline treatment combined with enzymatic hydrolysis for efficient cellulose nanofibrils production. Carbohydrate Polymers, 2021, 255, 117383.	10.2	37

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109	Recent Advances in Surface Chemical Modification of Cellulose Fibres. Journal of Adhesion Science and Technology, 2011, 25, 661-684.	2.6	36
110	Electrostatic interactions regulate the physical properties of gelatin-cellulose nanocrystals nanocomposite films intended for biodegradable packaging. Food Hydrocolloids, 2021, 113, 106424.	10.7	36
111	Polycaprolactone/modified bagasse whisker nanocomposites with improved moistureâ€barrier and biodegradability properties. Journal of Applied Polymer Science, 2012, 125, E10.	2.6	35
112	Nanocellulose Production by Twin-Screw Extrusion: Simulation of the Screw Profile To Increase the Productivity. ACS Sustainable Chemistry and Engineering, 2020, 8, 50-59.	6.7	34
113	Cellulose nanocrystal surface functionalization for the controlled sorption of water and organic vapours. Cellulose, 2016, 23, 2955-2970.	4.9	33
114	Tunable Structural and Mechanical Properties of Cellulose Nanofiber Substrates in Aqueous Conditions for Stem Cell Culture. Biomacromolecules, 2017, 18, 2034-2044.	5.4	33
115	Use of multi-factorial analysis to determine the quality of cellulose nanofibers: effect of nanofibrillation treatment and residual lignin content. Cellulose, 2020, 27, 10689-10705.	4.9	33
116	Influence of the Botanic Origin of Starch Nanocrystals on the Morphological and Mechanical Properties of Natural Rubber Nanocomposites. Macromolecular Materials and Engineering, 2012, 297, 969-978.	3.6	32
117	Production of cationic nanofibrils of cellulose by twin-screw extrusion. Industrial Crops and Products, 2019, 137, 81-88.	5.2	32
118	Antimicrobial Cellulose Nanofibril Porous Materials Obtained by Supercritical Impregnation of Thymol. ACS Applied Bio Materials, 2020, 3, 2965-2975.	4.6	32
119	The surface chemistry of a nanocellulose drug carrier unravelled by MAS-DNP. Chemical Science, 2020, 11, 3868-3877.	7.4	32
120	Natural acidic deep eutectic solvent to obtain cellulose nanocrystals using the design of experience approach. Carbohydrate Polymers, 2021, 252, 117136.	10.2	32
121	Optimization of the batch preparation of starch nanocrystals to reach daily timeâ€scale. Starch/Staerke, 2012, 64, 489-496.	2.1	31
122	Palm rachis microfibrillated cellulose and oxidized-microfibrillated cellulose for improving paper sheets properties of unbeaten softwood and bagasse pulps. Industrial Crops and Products, 2015, 64, 9-15.	5.2	31
123	The nanocellulose biorefinery: woody versus herbaceous agricultural wastes for NCC production. Cellulose, 2017, 24, 693-704.	4.9	31
124	Combination of twin-screw extruder and homogenizer to produce high-quality nanofibrillated cellulose with low energy consumption. Journal of Materials Science, 2018, 53, 12604-12615.	3.7	31
125	Amidation of TEMPO-oxidized cellulose nanocrystals using aromatic aminated molecules. Colloid and Polymer Science, 2020, 298, 603-617.	2.1	31
126	Breakdown and buildup mechanisms of cellulose nanocrystal suspensions under shear and upon relaxation probed by SAXS and SALS. Carbohydrate Polymers, 2021, 260, 117751.	10.2	31

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127	Different strategies for obtaining high opacity films of MFC with TiO2 pigments. Cellulose, 2013, 20, 3025-3037.	4.9	30
128	Antibacterial paperboard packaging using microfibrillated cellulose. Journal of Food Science and Technology, 2015, 52, 5590-5600.	2.8	30
129	Extrusion of Nanocelluloseâ€Reinforced Nanocomposites Using the Dispersed Nanoâ€Objects Protective Encapsulation (DOPE) Process. Macromolecular Materials and Engineering, 2011, 296, 984-991.	3.6	29
130	Isocyanate-treated cellulose pulp and its effect on the alkali resistance and performance of fiber cement composites. Holzforschung, 2013, 67, 853-861.	1.9	29
131	Cyclodextrin functionalization of several cellulosic substrates for prolonged release of antibacterial agents. Journal of Applied Polymer Science, 2013, 129, 604-613.	2.6	28
132	Comparative Sustainability Assessment of Starch Nanocrystals. Journal of Polymers and the Environment, 2013, 21, 71-80.	5.0	27
133	Tailoring Rheological Properties of Thermoresponsive Hydrogels through Block Copolymer Adsorption to Cellulose Nanocrystals. Biomacromolecules, 2019, 20, 2545-2556.	5.4	27
134	Substrate pre-treatment of flexible material for printed electronics with carbon nanotube based ink. Applied Surface Science, 2011, 257, 3645-3651.	6.1	26
135	Industrial Point of View of Nanocellulose Materials and Their Possible Applications. Materials and Energy, 2014, , 233-252.	0.1	26
136	Adsorption versus grafting of poly(N-Isopropylacrylamide) in aqueous conditions on the surface of cellulose nanocrystals. Carbohydrate Polymers, 2019, 210, 100-109.	10.2	26
137	Cellulose nanofibrils and silver nanowires active coatings for the development of antibacterial packaging surfaces. Carbohydrate Polymers, 2020, 240, 116305.	10.2	26
138	PEDOT:PSS coating on specialty papers: Process optimization and effects of surface properties on electrical performances. Progress in Organic Coatings, 2008, 63, 87-91.	3.9	25
139	Synthesis of cellulose triacetate-I from microfibrillated date seeds cellulose (Phoenix dactylifera L.). Iranian Polymer Journal (English Edition), 2017, 26, 137-147.	2.4	25
140	The effect of hydration on the material and mechanical properties of cellulose nanocrystal-alginate composites. Carbohydrate Polymers, 2018, 179, 186-195.	10.2	23
141	Tunable gas barrier properties of filled-PCL film by forming percolating cellulose network. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 545, 26-30.	4.7	22
142	Efficiency of Cellulose Carbonates to Produce Cellulose Nanofibers. ACS Sustainable Chemistry and Engineering, 2019, 7, 8155-8167.	6.7	22
143	Cellulose Nanofibers and Their Use in Paper Industry. Materials and Energy, 2014, , 207-232.	0.1	21
144	High-Barrier and Antioxidant Poly(lactic acid)/Nanocellulose Multilayered Materials for Packaging. ACS Omega, 2020, 5, 22816-22826.	3.5	20

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145	Lignin Nanoparticle Nucleation and Growth on Cellulose and Chitin Nanofibers. Biomacromolecules, 2021, 22, 880-889.	5.4	19
146	Role of solvent exchange in dispersion of cellulose nanocrystals and their esterification using fatty acids as solvents. Cellulose, 2020, 27, 4319-4336.	4.9	18
147	Cellulose fibers deconstruction by twin-screw extrusion with in situ enzymatic hydrolysis via bioextrusion. Bioresource Technology, 2021, 327, 124819.	9.6	18
148	Feasibility of chitosan crosslinked with genipin as biocoating for cellulose-based materials. Carbohydrate Polymers, 2020, 242, 116429.	10.2	18
149	Elaboration of cellulose based nanobiocomposite: Effect of cellulose nanocrystals surface treatment and interface â€œmeltingâ€. Industrial Crops and Products, 2015, 72, 7-15.	5.2	17
150	Cellulose nanofiber (CNF)â€“sakacinâ€A active material: production, characterization and application in storage trials of smoked salmon. Journal of the Science of Food and Agriculture, 2019, 99, 4731-4738.	3.5	17
151	Multilayers of Renewable Nanostructured Materials with High Oxygen and Water Vapor Barriers for Food Packaging. ACS Applied Materials & Interfaces, 2022, 14, 30236-30245.	8.0	17
152	Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. Cellulose, 2018, 25, 7127-7142.	4.9	16
153	Chemical versus solvent extraction treatment: Comparison and influence on polyester based bio-composite mechanical properties. Composites Part A: Applied Science and Manufacturing, 2010, 41, 703-708.	7.6	15
154	All starch nanocomposite coating for barrier material. Journal of Applied Polymer Science, 2014, 131, .	2.6	15
155	Short communication on the role of cellulosic fiber-based packaging in reduction of climate change impacts. Carbohydrate Polymers, 2021, 254, 117248.	10.2	15
156	Development of Bio-Inspired Hierarchical Fibres to Tailor the Fibre/Matrix Interphase in (Bio)composites. Polymers, 2021, 13, 804.	4.5	15
157	Thick Polyvinyl Alcohol Films Reinforced with Cellulose Nanocrystals for Coating Applications. ACS Applied Nano Materials, 2021, 4, 8015-8025.	5.0	14
158	Optimization of preparation of thermally stable cellulose nanofibrils via heatâ€induced conversion of ionic bonds to amide bonds. Journal of Polymer Science Part A, 2017, 55, 1750-1756.	2.3	13
159	Antibacterial Cellulose Nanopapers via Aminosilane Grafting in Supercritical Carbon Dioxide. ACS Applied Bio Materials, 2020, 3, 8402-8413.	4.6	13
160	Upcycling Byproducts from Insect (Fly Larvae and Mealworm) Farming into Chitin Nanofibers and Films. ACS Sustainable Chemistry and Engineering, 2021, 9, 13618-13629.	6.7	13
161	Natural active molecule chemical grafting on the surface of microfibrillated cellulose for fabrication of contact active antimicrobial surfaces. Industrial Crops and Products, 2015, 78, 82-90.	5.2	12
162	Nanocellulose in functional packaging. , 2017, , 175-213.		12

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163	Characterization and mechanical properties of ultraviolet stimuliâ€responsive functionalized cellulose nanocrystal alginate composites. Journal of Applied Polymer Science, 2018, 135, 45857.	2.6	11
164	Thermo-compression of cellulose nanofibrils. Cellulose, 2020, 27, 25-40.	4.9	11
165	Hierarchical thermoplastic biocomposites reinforced with flax fibres modified by xyloglucan and cellulose nanocrystals. Carbohydrate Polymers, 2021, 254, 117403.	10.2	11
166	Impregnation of paper with cellulose nanocrystal reinforced polyvinyl alcohol: synergistic effect of infrared drying and CNC content on crystallinity. Soft Matter, 2018, 14, 9425-9435.	2.7	10
167	Rheology of cellulose nanofibrils and silver nanowires for the development of screen-printed antibacterial surfaces. Journal of Materials Science, 2021, 56, 12524-12538.	3.7	9
168	Two-step immobilization of metronidazole prodrug on TEMPO cellulose nanofibrils through thiol-yne click chemistry for in situ controlled release. Carbohydrate Polymers, 2021, 262, 117952.	10.2	9
169	Valorization of Byproducts of Hemp Multipurpose Crop: Short Non-Aligned Bast Fibers as a Source of Nanocellulose. Molecules, 2021, 26, 4723.	3.8	9
170	Hydrothermal treatments of aqueous cellulose nanocrystal suspensions: effects on structure and surface charge content. Cellulose, 2021, 28, 10239-10257.	4.9	9
171	Photocured Nanocellulose Composites: Recent Advances. ACS Sustainable Chemistry and Engineering, 2022, 10, 3131-3149.	6.7	9
172	Pure cellulose nanofibrils membranes loaded with ciprofloxacin for drug release and antibacterial activity. Cellulose, 2020, 27, 7037-7052.	4.9	8
173	Film thickness limits of a buckling-based method to determine mechanical properties of polymer coatings. Journal of Colloid and Interface Science, 2021, 582, 227-235.	9.4	8
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175	Production and Mechanical Characterisation of TEMPO-Oxidised Cellulose Nanofibrils/Î²-Cyclodextrin Films and Cryogels. Molecules, 2020, 25, 2381.	3.8	8
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