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**Production of nanocrystalline cellulose from
lignocellulosic biomass: technology and applications**

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832	Properties of novel polyvinyl alcohol/cellulose nanocrystals/silver nanoparticles blend membranes. <i>Carbohydrate Polymers</i> , 2013 , 98, 1573-7	10.3	52
831	Fabrication of nano-crystalline cellulose with phosphoric acid and its full application in a modified polyurethane foam. 2013 , 98, 1940-1944		38
830	Preparation, characterization and optimization of nanocellulose whiskers by simultaneously ultrasonic wave and microwave assisted. 2013 , 146, 82-88		82
829	Feasibility of nanocrystalline cellulose production by endoglucanase treatment of natural bast fibers. 2013 , 51, 381-384		30
828	Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: part I. <i>Carbohydrate Polymers</i> , 2013 , 97, 825-36	10.3	143
827	Study on the Acrylic Resin Coating Agent Modified by Nanocrystalline Cellulose. 2013 , 821-822, 1287-1290		
826	Conversion of lignocellulosic biomass to nanocellulose: structure and chemical process. 2014 , 2014, 631013		235
825	Isolation and Characteristics of Cellulose and Nanocellulose from Lotus Leaf Stalk Agro-wastes. 2014 , 10,		12
824	Exploration of a Chemo-Mechanical Technique for the Isolation of Nanofibrillated Cellulosic Fiber from Oil Palm Empty Fruit Bunch as a Reinforcing Agent in Composites Materials. 2014 , 6, 2611-2624		102
823	Cellulose nanocrystals and carboxymethyl cellulose from olive stones and their use to improve paper sheets properties. 2014 , 7, 261		19
822	Cellulose Nanocrystals: Nanostrength for Industrial and Biomedical Applications. 2014 , 393-435		1
821	PVA bio-nanocomposites: a new take-off using cellulose nanocrystals and PLGA nanoparticles. <i>Carbohydrate Polymers</i> , 2014 , 99, 47-58	10.3	105
820	Production and modification of nanofibrillated cellulose using various mechanical processes: a review. <i>Carbohydrate Polymers</i> , 2014 , 99, 649-65	10.3	821
819	Multifunctional PLA-PHB/cellulose nanocrystal films: processing, structural and thermal properties. <i>Carbohydrate Polymers</i> , 2014 , 107, 16-24	10.3	200
818	Investigation of thermo-mechanical, chemical and degradative properties of PLA-limonene films reinforced with cellulose nanocrystals extracted from Phormium tenax leaves. 2014 , 56, 77-91		135
817	Production of Bioethanol in a Second Generation Prototype from Pine Wood Chips. 2014 , 45, 42-51		54
816	Nanofibrillated cellulose: surface modification and potential applications. 2014 , 292, 5-31		294

815	Efficient extraction of carboxylated spherical cellulose nanocrystals with narrow distribution through hydrolysis of lyocell fibers by using ammonium persulfate as an oxidant. 2014 , 2, 251-258		115
814	Preparation and characterization of nanocrystalline cellulose via low-intensity ultrasonic-assisted sulfuric acid hydrolysis. 2014 , 21, 335-346		186
813	Production of biocompatible and antimicrobial bacterial cellulose polymers functionalized by RGDC grafting groups and gentamicin. 2014 , 6, 1439-46		92
812	Nano-biocomposite films with modified cellulose nanocrystals and synthesized silver nanoparticles. <i>Carbohydrate Polymers</i> , 2014 , 101, 1122-33	10.3	136
811	Agriculture crop residues as a source for the production of nanofibrillated cellulose with low energy demand. 2014 , 21, 4247-4259		57
810	Layer-by-layer assembled thin films and microcapsules of nanocrystalline cellulose for hydrophobic drug delivery. 2014 , 6, 20093-101		103
809	Production of highly electro-conductive cellulosic paper via surface coating of carbon nanotube/graphene oxide nanocomposites using nanocrystalline cellulose as a binder. 2014 , 21, 4569-4581		71
808	Surface modification of natural cellulose substances: toward functional materials and applications. 2014 , 57, 1672-1682		11
807	Review of hemicellulose hydrolysis in softwoods and bamboo. 2014 , 8, 857-870		58
806	Okra Fibres as Potential Reinforcement in Biocomposites. 2014 , 175-190		4
805	Biomass and Bioenergy. 2014 ,		10
804	Surface Treatment of Cellulosic Paper with Starch-Based Composites Reinforced with Nanocrystalline Cellulose. 2014 , 53, 13980-13988		65
803	Preparation and characterization of cellulose nanocrystals via ultrasonication-assisted FeCl ₃ -catalyzed hydrolysis. 2014 , 21, 3497-3506		83
802	Fast preparation of nanocrystalline cellulose by microwave-assisted hydrolysis. 2014 , 21, 2579-2585		34
801	Dispersion study of nanofibrillated cellulose based poly(butylene adipate-co-terephthalate) composites. <i>Carbohydrate Polymers</i> , 2014 , 102, 537-42	10.3	51
800	Surface chemistry, morphological analysis and properties of cellulose nanocrystals with graded sulfation degrees. 2014 , 6, 5384-93		332
799	Using carboxylated nanocrystalline cellulose as an additive in cellulosic paper and poly (vinyl alcohol) fiber paper. <i>Carbohydrate Polymers</i> , 2014 , 110, 298-301	10.3	26
798	Lignin as Co-product of Second Generation Bioethanol Production from Ligno-cellulosic Biomass. 2014 , 45, 52-60		88

797	The potential of cellulose nanocrystals in tissue engineering strategies. 2014 , 15, 2327-46	344
796	Development of cellulose nanowhisker-polyacrylamide copolymer as a highly functional precursor in the synthesis of nanometal particles for conductive textiles. 2014 , 21, 3055-3071	34
795	Preparation of nanocrystalline cellulose from corncob used as reinforcement in separator for lithium ion battery. 2015 ,	1
794	Nanocellulose: Biomedical Nanomaterial Applications. 2015 , 5077-5100	1
793	Pulping of flax raw materials using plasma-chemical treatment. 2015 , 49, 459-464	5
792	ISOLATION OF NANOCELLULOSE FROM JATROPHA WASTE: AN OVERVIEW. 2015 , 76,	1
791	Toward Industrially Feasible Methods for Following the Process of Manufacturing Cellulose Nanofibers. 2015 , 10,	31
790	Cellulose nanocrystals: synthesis, functional properties, and applications. 2015 , 8, 45-54	423
789	Bio-Based Coatings for Paper Applications. 2015 , 5, 887-930	132
788	Preparation of Nanocellulose via Transition Metal Salt-Catalyzed Hydrolysis Pathway. 2015 , 10,	40
787	Mechanical Properties of Poly(lactic acid) Sheet Reinforced with Microfibrillated Cellulose from Corn Cobs. 2015 , 30, 03007	1
786	Physical and bio-composite properties of nanocrystalline cellulose from wood, cotton linters, cattail, and red algae. 2015 , 22, 1789-1798	43
785	Improved cellulose conversion to bio-hydrogen with thermophilic bacteria and characterization of microbial community in continuous bioreactor. 2015 , 75, 57-64	25
784	Use of alginate, chitosan and cellulose nanocrystals as emulsion stabilizers in the synthesis of biodegradable polymeric nanoparticles. 2015 , 445, 31-39	61
783	Bio-nanocomposite films based on cellulose nanocrystals filled polyvinyl alcohol/chitosan polymer blend. 2015 , 132, n/a-n/a	94
782	Crystallization, structural relaxation and thermal degradation in Poly(L-lactide)/cellulose nanocrystal renewable nanocomposites. <i>Carbohydrate Polymers</i> , 2015 , 123, 256-65	10.3 117
781	Organosolv lignin as natural grafting additive to improve the water resistance of films using cellulose nanocrystals. 2015 , 264, 780-788	42
780	Adsorption of polyethylene glycol (PEG) onto cellulose nano-crystals to improve its dispersity. <i>Carbohydrate Polymers</i> , 2015 , 123, 157-63	10.3 87

779	Fabrication of graphene oxide decorated with Fe ₃ O ₄ @SiO ₂ for immobilization of cellulase. 2015 , 17, 1		51
778	Nanotechnology in agro-food: From field to plate. 2015 , 69, 381-400		270
777	Bionanocomposite films based on plasticized PLA-PHB/cellulose nanocrystal blends. <i>Carbohydrate Polymers</i> , 2015 , 121, 265-75	10.3	233
776	General procedure for determining cellulose nanocrystal sulfate half-ester content by conductometric titration. 2015 , 22, 101-116		108
775	Extraction of cellulose nanocrystals from plant sources for application as reinforcing agent in polymers. 2015 , 75, 176-200		280
774	Isolation and characterization of nanocrystalline cellulose from corn husk. 2015 , 148, 26-29		37
773	Structure and properties of composite films formed by cellulose nanocrystals and charged latex nanoparticles. 2015 , 7, 6612-8		36
772	Extraction of cellulose nano-crystals from old corrugated container fiber using phosphoric acid and enzymatic hydrolysis followed by sonication. <i>Carbohydrate Polymers</i> , 2015 , 125, 360-6	10.3	126
771	Increasing yield of nanocrystalline cellulose preparation process by a cellulase pretreatment. 2015 , 192, 574-81		39
770	Properties and characterization of electrically conductive nanocellulose-based composite films. 2015 , 3-25		3
769	Processing of wood for wood composites. 2015 , 27-45		5
768	The role of nanocrystalline cellulose on the microstructure of foamed castor-oil polyurethane nanocomposites. <i>Carbohydrate Polymers</i> , 2015 , 134, 110-8	10.3	36
767	PCL/PVA nanoencapsulated reinforcing fillers of steam exploded/autoclaved cellulose nanofibrils for tissue engineering applications. 2015 , 5, 23999-24008		27
766	Optimized methods for obtaining cellulose and cellulose sulfates from birch wood. 2015 , 49, 825-843		9
765	Lignocellulosic biomass: a sustainable platform for the production of bio-based chemicals and polymers. 2015 , 6, 4497-4559		1391
764	Cellulose nanomaterials in water treatment technologies. 2015 , 49, 5277-87		459
763	Comparison of polyolefin biocomposites prepared with waste cardboard, microcrystalline cellulose, and cellulose nanocrystals via solid-state shear pulverization. 2015 , 75, 78-87		41
762	Nanotechnologies for Production of High Performance Cellulosic Paper. 2015 , 137-172		

761	Polysaccharides from Bioagro-Waste for New Biomolecules. 2015 , 603-637	2
760	The influence of the cellulose hydrolysis process on the structure of cellulose nanocrystals extracted from capim mombaça (Panicum maximum). 2015 , 65, 496-505	32
759	Extraction and characterization of lignin from different biomass resources. 2015 , 4, 26-32	371
758	The use of curaua fibers as reinforcements in composites. 2015 , 700-720	12
757	Cellulose nanocrystal/polyolefin biocomposites prepared by solid-state shear pulverization: Superior dispersion leading to synergistic property enhancements. 2015 , 56, 464-475	75
756	A review: potential usage of cellulose nanofibers (CNF) for enzyme immobilization via covalent interactions. 2015 , 175, 1817-42	82
755	A mechanochemical approach to manufacturing bamboo cellulose nanocrystals. 2015 , 50, 611-619	66
754	Theory, practice and prospects of X-ray and neutron scattering for lignocellulosic biomass characterization: towards understanding biomass pretreatment. 2015 , 8, 436-455	75
753	Creep behavior of starch-based nanocomposite films with cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2015 , 117, 957-963	10.3 44
752	Comparison of the mechanical properties between carbon nanotube and nanocrystalline cellulose polypropylene based nano-composites. 2015 , 65, 974-982	25
751	Comparative Study of Microcelluloses Isolated From Two Different Biomasses with Commercial Cellulose. 2016 , 11,	3
750	Preparation of Cellulose Nanocrystals Bio-Polymer from Agro-Industrial Wastes: Separation and Characterization. 2016 , 24, 719-728	17
749	Nanocellulose-Based Polymeric Blends for Food Packaging Applications. 2016 , 205-252	13
748	Enrichment of Cellulosic Waste Hemp (Cannabis sativa) Hurd into Non-Toxic Microfibres. 2016 , 9,	14
747	Wood: Chemicals. 2016 ,	
746	Nanocellulose Produced from Rice Hulls and its Effect on the Properties of Biodegradable Starch Films. 2016 , 19, 167-174	52
745	Extraction of Lignocellulosic Materials From Waste Products. 2016 , 1-38	6
744	Caracterização morfológica de nanocristais de celulose por microscopia de força atômica. 2016 , 21, 532-540	1

743	Preparation and characterization of thermally stable cellulose nanocrystals via a sustainable approach of FeCl ₃ -catalyzed formic acid hydrolysis. 2016 , 23, 2389-2407	98
742	In situ detoxification of dry dilute acid pretreated corn stover by co-culture of xylose-utilizing and inhibitor-tolerant <i>Saccharomyces cerevisiae</i> increases ethanol production. 2016 , 218, 380-7	25
741	Opportunities for Cellulose Nanomaterials in Packaging Films: A Review and Future Trends. 2016 , 4, 313-326	37
740	Chapter 1 Bio-Based New Materials for Packaging Applications. 2016 , 1-18	
739	Properties and Utilization of Plant Fibers and Nanocellulose for Thermoplastic Composites. 2016 , 405-428	
738	Cellulose nanocrystals in nanocomposite approach: Green and high-performance materials for industrial, biomedical and agricultural applications. 2016 ,	2
737	Morphology and properties of durian cellulose nanofibres reinforced polyvinyl alcohol/starch based composite. 2016 ,	3
736	Modulation of Acid Hydrolysis Reaction Time for the Extraction of Cellulose Nanocrystals from <i>Posidonia oceanica</i> Leaves. 2016 , 4, 190-198	18
735	The Treated Cellulose Micro/Nano Fibers (CMNF) from Bioresources in Malaysia. 2016 , 846, 434-439	1
734	Thermal and Morphological Properties of Poly (Lactic Acid)/Nanocellulose Nanocomposites. 2016 , 19, 788-794	72
733	Characterization of cellulose nanowhiskers extracted from alfa fiber and the effect of their dispersion methods on nanocomposite properties. 2016 , 30, 1899-1912	11
732	Lignocellulosic nanostructures as reinforcement in extruded and solvent casted polymeric nanocomposites: an overview. 2016 , 80, 295-316	69
731	The fast and effective isolation of nanocellulose from selected cellulosic feedstocks. <i>Carbohydrate Polymers</i> , 2016 , 148, 251-8	10.3 48
730	Poly lactide/acetylated nanocrystalline cellulose composites prepared by a continuous route: A phase interface-property relation study. <i>Carbohydrate Polymers</i> , 2016 , 146, 58-66	10.3 63
729	Feasibility of Manufacturing Cellulose Nanocrystals from the Solid Residues of Second-Generation Ethanol Production from Sugarcane Bagasse. 2016 , 9, 894-906	52
728	Impacts of chemical modification on the toxicity of diverse nanocellulose materials to developing zebrafish. 2016 , 23, 1763-1775	48
727	Characterization of nanocellulose recovery from <i>Elaeis guineensis</i> frond for sustainable development. 2016 , 18, 2503-2512	40
726	Pretreatment and conversion of lignocellulose biomass into valuable chemicals. 2016 , 6, 46834-46852	147

725	Isolation of Cellulose Nanowhiskers and Their Nanocomposites. 2016 , 155-177	4
724	Fibrous residues of palm oil as a source of green chemical building blocks. 2016 , 94, 480-489	16
723	Reinforcement of hydroxypropylcellulose films by cellulose nanocrystals in the presence of surfactants. 2016 , 34, 1301-1310	5
722	Multifunctional Applications of Nanocellulose-Based Nanocomposites. 2016 , 177-204	4
721	Overview of Cellulose Nanomaterials, Their Capabilities and Applications. 2016 , 68, 2383-2394	125
720	Nanocellulose prepared by acid hydrolysis of isolated cellulose from sugarcane bagasse. 2016 , 107, 012045	104
719	Nanoagriculture and Water Quality Management. 2016 , 1-42	13
718	Nanoclay Reinforced Polymer Composites. 2016 ,	24
717	Bioplastics and Bionanocomposites Based on Nanoclays and Other Nanofillers. 2016 , 115-139	0
716	Polyurethane types, synthesis and applications A review. 2016 , 6, 114453-114482	597
715	Microcrystalline cellulose: Isolation, characterization and bio-composites application-A review. 2016 , 93, 789-804	328
714	Nanotechnology in Agriculture. 2016 , 233-242	28
713	A comparison of cellulose nanocrystals and cellulose nanofibres extracted from bagasse using acid and ball milling methods. 2016 , 7, 035004	129
712	Mechanical properties of natural rubber nanocomposites reinforced with high aspect ratio cellulose nanocrystals isolated from soy hulls. <i>Carbohydrate Polymers</i> , 2016 , 153, 143-152	10.3 125
711	Effect of poly(dl-lactide-co-glycolide) nanoparticles or cellulose nanocrystals-based formulations on <i>Pseudomonas syringae</i> pv. tomato (Pst) and tomato plant development. 2016 , 123, 301-310	22
710	Facile preparation and separation performances of cellulose nanofibrous membranes. 2016 , 133, n/a-n/a	17
709	Nanocellulose and Nanocomposites. 2016 , 103-125	2
708	Properties of nanocellulose isolated from corncob residue using sulfuric acid, formic acid, oxidative and mechanical methods. <i>Carbohydrate Polymers</i> , 2016 , 151, 716-724	10.3 190

707	Nanoscale Materials in Targeted Drug Delivery, Theragnosis and Tissue Regeneration. 2016,	8
706	Microalgae Recovery from Water for Biofuel Production Using CO2-Switchable Crystalline Nanocellulose. 2016, 50, 7896-903	36
705	Industrial and crop wastes: A new source for nanocellulose biorefinery. 2016, 93, 26-38	194
704	Correlating Cellulose Nanocrystal Particle Size and Surface Area. 2016, 32, 6105-14	98
703	Development and characterization of bionanocomposites based on poly(3-hydroxybutyrate) and cellulose nanocrystals for packaging applications. 2016, 65, 1046-1053	38
702	Analysis of multiaxial properties of carbon nanotubes/polypropylene and nanocrystalline cellulose/polypropylene composites. 2016, 37, 1180-1189	5
701	Fibrous and Textile Materials for Composite Applications. 2016,	18
700	Modification of cellulose nanocrystal via SI-ATRP of styrene and the mechanism of its reinforcement of polymethylmethacrylate. <i>Carbohydrate Polymers</i> , 2016, 142, 206-12	10.3 91
699	Polyhydroxyalkanoates and Their Nanobiocomposites With Cellulose Nanocrystals. 2016, 261-285	8
698	The thermal stability of nanocellulose and its acetates with different degree of polymerization. 2016, 23, 451-464	40
697	Carbohydrate-Based Advanced Biomaterials for Food Sustainability: A Review. 2016, 842, 182-195	7
696	Optimization of sulfuric acid hydrolysis conditions for preparation of nanocrystalline cellulose from enzymatically pretreated fibers. 2016, 23, 1777-1789	54
695	Synthesis of Ni/mesoporous ZSM-5 for direct catalytic conversion of cellulose to hexitols: modulating the pore structure and acidic sites via a nanocrystalline cellulose template. 2016, 18, 3315-3323	41
694	Natural Nanofibres for Composite Applications. 2016, 261-299	1
693	Hydroxypropyl cellulose/rice straw oxidized cellulose nanocrystals nanocomposites and their use in paper coating. 2016, 93, 186-192	18
692	Synergistic Effect of Halloysite and Cellulose Nanocrystals on the Functional Properties of PVA Based Nanocomposites. 2016, 4, 794-800	81
691	Supramolecular aromatic interactions to enhance biodegradable film properties through incorporation of functionalized cellulose nanocrystals. 2016, 83, 80-88	54
690	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

689	Processing of wood-based microfibrillated cellulose and nanofibrillated cellulose, and applications relating to papermaking: a review. 2016 , 23, 93-123		231
688	Whey protein aerogel as blended with cellulose crystalline particles or loaded with fish oil. 2016 , 196, 1016-22		54
687	Synergic effect of tungstophosphoric acid and sonication for rapid synthesis of crystalline nanocellulose. <i>Carbohydrate Polymers</i> , 2016 , 138, 349-55	10.3	57
686	Nanocrystalline cellulose-dispersed AKD emulsion for enhancing the mechanical and multiple barrier properties of surface-sized paper. <i>Carbohydrate Polymers</i> , 2016 , 136, 1035-40	10.3	29
685	Effects of ultrasonic treatment during acid hydrolysis on the yield, particle size and structure of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2016 , 135, 248-55	10.3	89
684	Chemically modified cellulose nanofibril as an additive for two-component polyurethane coatings. 2017 , 134,		6
683	Recent progress in cellulose nanocrystals: sources and production. 2017 , 9, 1763-1786		545
682	Characterization of Cellulose Nanocrystals Extracted from Sugarcane Bagasse for Potential Biomedical Materials. 2017 , 19, 539-552		30
681	Recent updates on different methods of pretreatment of lignocellulosic feedstocks: a review. 2017 , 4, 7		638
680	Hydrophilic nanofibrous composite membrane prepared by melt-blending extrusion for effective separation of oil/water emulsion. 2017 , 7, 7108-7115		18
679	Multifunctional Cellulolytic Enzymes Outperform Processive Fungal Cellulases for Coproduction of Nanocellulose and Biofuels. 2017 , 11, 3101-3109		84
678	Thermoset Cellulose Nanocomposites: Flammability Characteristics. 2017 , 235-272		2
677	Hybrid Filler (Cellulose/Noncellulose) Reinforced Nanocomposites. 2017 , 273-299		2
676	Cellulosic Biocomposites: Potential Materials for Future. 2017 , 69-100		12
675	Improved specific thermomechanical properties of polyurethane nanocomposite foams based on castor oil and bacterial nanocellulose. 2017 , 134,		18
674	Utilizing cellulose from sugarcane bagasse mixed with poly(vinyl alcohol) for tissue engineering scaffold fabrication. 2017 , 100, 183-197		49
673	Efficiency of Ni Nanoparticles Supported on Hierarchical Porous Nitrogen-Doped Carbon for Hydrogenolysis of Kraft Lignin in Flow and Batch Systems. 2017 , 5, 2415-2420		27
672	Development of polylactic acid nanocomposite films reinforced with cellulose nanocrystals derived from coffee silverskin. <i>Carbohydrate Polymers</i> , 2017 , 169, 495-503	10.3	108

671	Recent trends and developments in dissolving pulp production and application. 2017 , 24, 2347-2365		60
670	Polyaniline-modified nanocellulose prepared from Semantan bamboo by chemical polymerization: preparation and characterization. 2017 , 7, 25191-25198		40
669	Novel flexural behaviour of sandwich structures made of perlite foam/sodium silicate core and paper skin. 2017 , 148, 321-333		5
668	Homogeneous isolation of nanocellulose from eucalyptus pulp by high pressure homogenization. 2017 , 104, 237-241		54
667	A new approach to obtain cellulose nanocrystals and ethanol from eucalyptus cellulose pulp via the biochemical pathway. 2017 , 33, 1085-1095		30
666	Acid mediated chemical treatment to remove sugar from waste acid stream from nano-crystalline cellulose manufacturing process. <i>Carbohydrate Polymers</i> , 2017 , 169, 458-466	10.3	1
665	Synthesis of cellulose/silica gel polymer hybrids via in-situ hydrolysis method. 2017 , 74, 4997-5009		3
664	Exploration of permeability and antifouling performance on modified cellulose acetate ultrafiltration membrane with cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017 , 174, 190-199	10.3	53
663	An overview of natural renewable bio-polymer lignin towards nano and biotechnological applications. 2017 , 103, 508-514		62
662	Applications of nanotechnology in agriculture and water quality management. 2017 , 15, 591-605		123
661	Production of cellulose nanofibers using phenolic enhanced surface oxidation. <i>Carbohydrate Polymers</i> , 2017 , 174, 120-127	10.3	20
660	Carbohydrate functionalized hybrid latex particles. <i>Carbohydrate Polymers</i> , 2017 , 173, 233-252	10.3	31
659	An overview on cellulose-based material in tailoring bio-hybrid nanostructured photocatalysts for water treatment and renewable energy applications. 2017 , 103, 1232-1256		95
658	Nanocomposites based on banana starch reinforced with cellulose nanofibers isolated from banana peels. 2017 , 505, 154-167		99
657	Conversion Economics of Forest Biomaterials: Risk and Financial Analysis of CNC Manufacturing. 2017 , 11, 682-700		62
656	Preparation and physicochemical characterization of cellulose nanocrystals from industrial waste cotton. 2017 , 412, 405-416		93
655	Nanofiltration membranes with cellulose nanocrystals as an interlayer for unprecedented performance. 2017 , 5, 16289-16295		197
654	Understanding the effect of synthesis parameters on the catalytic ionic liquid hydrolysis process of cellulose nanocrystals. 2017 , 24, 2469-2481		24

653	Artificial Nanostructures in Food. 2017 , 49-68	
652	Template synthesis of mesoporous silicas with the use of nanocrystalline cellulose. 2017 , 79, 18-25	4
651	Thermally activated shape memory behavior of melt-mixed polyurethane/cellulose nanocrystal composites. 2017 , 134, 45033	33
650	Evaluation of Microwave Activity on Starch-Based Nanocomposites Reinforced at Different Loading Fraction Organic-to-Inorganic Nanofillers. 2017 , 56, 1043-1058	
649	Benchmarking Cellulose Nanocrystals: From the Laboratory to Industrial Production. 2017 , 33, 1583-1598	276
648	Review of Nanocellulose Polymer Composite Characteristics and Challenges. 2017 , 56, 687-731	56
647	Reversing the structural chirality of cellulosic nanomaterials. 2017 , 24, 5455-5462	6
646	Length-controlled cellulose nanofibrils produced using enzyme pretreatment and grinding. 2017 , 24, 5431-5442	20
645	Rice Straw Nanocelluloses: Process-Linked Structures, Properties, and Self-Assembling into Ultra-Fine Fibers. 2017 , 133-150	3
644	Controlled Construction of Nanostructured Organic-Inorganic Hybrid Material Induced by Nanocellulose. 2017 , 5, 8456-8463	16
643	Chiroptical, morphological and conducting properties of chiral nematic mesoporous cellulose/polypyrrole composite films. 2017 , 5, 19184-19194	57
642	Biocomposites of Poly(Lactic Acid) and Cellulose Nanofibers from Cassava Pulp. 2017 , 753, 13-17	1
641	Nanocellulose as a sustainable biomass material: structure, properties, present status and future prospects in biomedical applications. 2017 , 9, 14758-14781	150
640	Nanocellulose based biosorbents for wastewater treatment: Study of isotherm, kinetic, thermodynamic and reusability. 2017 , 8, 134-149	54
639	Research on cellulose nanocrystals produced from cellulose sources with various polymorphs. 2017 , 7, 33486-33493	145
638	Cellulose nanocrystals from passion fruit peels waste as antibiotic drug carrier. <i>Carbohydrate Polymers</i> , 2017 , 175, 370-376	10.3 48
637	PLA-Based Nanocomposites Reinforced with CNC for Food Packaging Applications: From Synthesis to Biodegradation. 2017 , 265-300	4
636	Crystallization Temperature as the Probe To Detect Polymer-Filler Compatibility in the Poly(E-caprolactone) Composites with Acetylated Cellulose Nanocrystal. 2017 , 121, 18615-18624	29

635	Comparative study of cellulose nanofiber and carbon nanofiber effects as reinforcement fillers on mechanical properties of polypropylene composites. 2017 ,		3
634	Market Opportunities for Cellulose Products From Combined Renewable Resources. 2017 , 19, 33-38		16
633	Improving the cross-linking degree of oxidized potato starch via addition of nanocrystalline cellulose. 2017 , 69, 1700042		7
632	Thermal and mechanical properties of chitosan nanocomposites with cellulose modified in ionic liquids. 2017 , 130, 143-154		39
631	High aspect ratio nanocellulose from an extremophile spinifex grass by controlled acid hydrolysis. 2017 , 24, 3753-3766		24
630	A Simple Approach to Prepare Carboxycellulose Nanofibers from Untreated Biomass. 2017 , 18, 2333-2342		92
629	Preparation and Characterization of Cellulose and Nanocellulose from Agro-industrial Waste - Cassava Peel. 2017 , 176, 012052		9
628	A comparative study on cellulose nanocrystals extracted from bleached cotton and flax and used for casting films with glycerol and sorbitol plasticisers. <i>Carbohydrate Polymers</i> , 2017 , 174, 740-749	10.3	34
627	Green Biocomposites. 2017 ,		11
626	Simple citric acid-catalyzed surface esterification of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017 , 157, 1358-1364	10.3	63
625	Manufacturing of Natural Fiber/Agrowaste Based Polymer Composites. 2017 , 125-147		5
624	Carbonized cellulose paper as an effective interlayer in lithium-sulfur batteries. 2017 , 396, 637-643		65
623	Sustainable commercial nanocrystalline cellulose manufacturing process with acid recycling. <i>Carbohydrate Polymers</i> , 2017 , 156, 26-33	10.3	11
622	Rheological properties of nanocrystalline cellulose suspensions. <i>Carbohydrate Polymers</i> , 2017 , 157, 303-310		49
621	Temperature stability of nanocellulose dispersions. <i>Carbohydrate Polymers</i> , 2017 , 157, 114-121	10.3	64
620	The nanocellulose biorefinery: woody versus herbaceous agricultural wastes for NCC production. 2017 , 24, 693-704		25
619	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
618	Material selection for composites. 2017 , 73-105		0

617	Bionanomaterial from agricultural waste and its application. 2017 , 45-88	4
616	Biomass-based composites from different sources: Properties, characterization, and transforming biomass with ionic liquids. 2017 , 45-76	4
615	Optimization and modelling of delignification process for nanocrystalline cellulose production from rice husk biomass. 2017 ,	
614	Novel Nanoscaled Materials from Lignocellulosic Sources: Potential Applications in the Agricultural Sector. 2017 , 1-24	1
613	High Performance Polymer Nanocomposites for Structural Applications. 2017 , 159-194	4
612	. 2017 ,	6
611	Synthesis and Swelling Behavior of pH-Sensitive Semi-IPN Superabsorbent Hydrogels Based on Poly(acrylic acid) Reinforced with Cellulose Nanocrystals. 2017 , 7,	34
610	Effect of Cellulose Nanocrystals and Bacterial Cellulose on Disintegrability in Composting Conditions of Plasticized PHB Nanocomposites. 2017 , 9,	26
609	Spectroscopy and microscopy of microfibrillar and nanofibrillar composites. 2017 , 279-299	2
608	Application of nanocrystalline cellulose. 2017 , 215-240	13
607	Green hybrid composites from cellulose nanocrystal. 2017 , 65-99	3
606	Nanofibrillated cellulose reinforcement in thermoset polymer composites. 2017 , 1-24	6
605	Recent advances in nanocellulose-based polymer nanocomposites. 2017 , 89-112	9
604	Lignin and Cellulose Extraction from Vietnam Rice Straw Using Ultrasound-Assisted Alkaline Treatment Method. 2017 , 2017, 1-8	37
603	Biodegradable polymer films from seaweed polysaccharides: A review on cellulose as a reinforcement material. 2017 , 11, 244-265	118
602	Nanocellulose reinforced as green agent in polymer matrix composites applications. 2018 , 29, 1531-1546	17
601	Rheological behavior of cellulose nanocrystal suspensions in polyethylene glycol. 2018 , 62, 607-618	18
600	Ultrasound-assisted conversion of cellulose into hydrogel and functional carbon material. 2018 , 25, 2629-2645	14

599	An eco-friendly preparation of cellulose nano crystals from oil palm empty fruit bunches. 2018 , 105, 012059	6
598	Bilayer biocomposites based on coated cellulose paperboard with films of polyhydroxybutyrate/cellulose nanocrystals. 2018 , 25, 2419-2434	15
597	Materials chemistry and the futurist eco-friendly applications of nanocellulose: Status and prospect. 2018 , 22, 949-978	158
596	Current characterization methods for cellulose nanomaterials. 2018 , 47, 2609-2679	436
595	Effects of cationic starch in the presence of cellulose nanofibrils on structural, optical and strength properties of paper from soda bagasse pulp. <i>Carbohydrate Polymers</i> , 2018 , 194, 1-8	10.3 28
594	Influence of Cellulose Filaments on Cement Paste and Concrete. 2018 , 30, 04018109	34
593	Renal toxicological evaluations of sulphonated nanocellulose from <i>Khaya sengalensis</i> seed in Wistar rats. 2018 , 284, 56-68	18
592	Enzyme mediated nanofibrillation of cellulose by the synergistic actions of an endoglucanase, lytic polysaccharide monooxygenase (LPMO) and xylanase. 2018 , 8, 3195	74
591	Cellulose nanofibers produced from various agricultural residues and their reinforcement effects in polymer nanocomposites. 2018 , 135, 46304	20
590	Utilization of pineapple peel for production of nanocellulose and film application. 2018 , 25, 1743-1756	77
589	Improvement of antifouling performances for modified PVDF ultrafiltration membrane with hydrophilic cellulose nanocrystal. 2018 , 440, 1091-1100	91
588	Synthesis of methylcellulose/cellulose nano-crystals nanocomposites: Material properties and study of sustained release of ketorolac tromethamine. <i>Carbohydrate Polymers</i> , 2018 , 188, 168-180	10.3 29
587	Preparation and characterization of C-phycoyanin peptide grafted N-succinyl chitosan by enzyme method. 2018 , 113, 841-848	11
586	Stable White Light-Emitting Biocomposite Films. 2018 , 28, 1706967	27
585	Combining ex-ante LCA and EHS screening to assist green design: A case study of cellulose nanocrystal foam. 2018 , 178, 494-506	18
584	A novel enzymatic approach to nanocrystalline cellulose preparation. <i>Carbohydrate Polymers</i> , 2018 , 189, 39-47	10.3 34
583	Cellulose Nanopapers. 2018 , 121-173	7
582	Ultrasonication of spray- and freeze-dried cellulose nanocrystals in water. 2018 , 516, 23-33	30

581	Cellulose nanocrystal (CNC)-inorganic hybrid systems: synthesis, properties and applications. 2018 , 6, 864-883		94
580	Preparation of acetylated nanofibrillated cellulose from corn stalk microcrystalline cellulose and its reinforcing effect on starch films. 2018 , 111, 959-966		13
579	Re-treated nanocellulose whiskers alongside a polyolefin elastomer to toughen and improve polypropylene composites. 2018 , 135, 46066		5
578	Comparative environmental Life Cycle Assessment of integral revalorization of vine shoots from a biorefinery perspective. 2018 , 624, 225-240		34
577	Jute cellulose nano-fibrils/hydroxypropylmethylcellulose nanocomposite: A novel material with potential for application in packaging and transdermal drug delivery system. 2018 , 112, 633-643		58
576	Smart functional polymer coatings for paper with anti-fouling properties. 2018 , 6, 830-843		16
575	Swelling behavior and chemical stability of chitosan/nanocellulose biocomposites. 2018 , 39, E561-E572		10
574	The effect of nanocrystalline cellulose on flow properties of fiber crop aqueous suspension. <i>Carbohydrate Polymers</i> , 2018 , 184, 376-382	10.3	4
573	Carboxymethylated cellulose nanofibrils(CMCNFs) embedded in polyurethane foam as a modular adsorbent of heavy metal ions. <i>Carbohydrate Polymers</i> , 2018 , 195, 136-142	10.3	55
572	A design optimization study on synthesized nanocrystalline cellulose, evaluation and surface modification as a potential biomaterial for prospective biomedical applications. 2018 , 114, 536-546		25
571	Spin-coating: A new approach for improving dispersion of cellulose nanocrystals and mechanical properties of poly (lactic acid) composites. <i>Carbohydrate Polymers</i> , 2018 , 190, 139-147	10.3	44
570	Cellulose nanocrystals from grape pomace: Production, properties and cytotoxicity assessment. <i>Carbohydrate Polymers</i> , 2018 , 192, 327-336	10.3	69
569	Production and characterization of cellulose nanofibril (CNF) from agricultural waste corn stover. <i>Carbohydrate Polymers</i> , 2018 , 192, 202-207	10.3	45
568	Isolation and characterisation of microcrystalline cellulose and cellulose nanocrystals from coffee husk and comparative study with rice husk. <i>Carbohydrate Polymers</i> , 2018 , 191, 205-215	10.3	106
567	Preparation and characterization of nanocomposite films from oil palm pulp nanocellulose/poly (Vinyl alcohol) by casting method. <i>Carbohydrate Polymers</i> , 2018 , 191, 103-111	10.3	50
566	Extraction and Characterization of Nanocrystalline Cellulose from Cassava Bagasse. 2018 , 26, 789-797		17
565	Influence of particle size of isotactic polypropylene (iPP) on barrier property against agglomeration of homogenized microcrystalline cellulose (HMCC) in iPP/HMCC composites. 2018 , 38, 213-222		1
564	Magnetic particles for sugar separation from sulphuric acid solution generated during nano-crystalline cellulose production. 2018 , 96, 4-10		

563	Simultaneous extraction of lignin and cellulose nanofibrils from waste jute bags using one pot pre-treatment. 2018 , 107, 1294-1301	46
562	Sono-chemical synthesis of cellulose nanocrystals from wood sawdust using Acid hydrolysis. 2018 , 107, 1599-1606	74
561	Agave bagasse biorefinery: processing and perspectives. 2018 , 20, 1423-1441	21
560	Fabrication of ofloxacin imprinted polymer on the surface of magnetic carboxylated cellulose nanocrystals for highly selective adsorption of fluoroquinolones from water. 2018 , 107, 453-462	44
559	Cellulose Reinforced Biodegradable Polymer Composite Film for Packaging Applications. 2018 , 49-69	16
558	Characterization of cellulose nanocrystal with cellulose II polymorph from primary sludge and its application to PVA nanocomposites. 2018 , 52, 555-565	2
557	Progress in the research and applications of natural fiber-reinforced polymer matrix composites. 2018 , 25, 835-846	24
556	Cellulose nanofibres as biomaterial for nano-reinforcement of poly[styrene-(ethylene-co-butylene)-styrene] triblock copolymer. 2018 , 25, 449-461	8
555	Green approach for one-pot synthesis of silver nanorod using cellulose nanocrystal and their cytotoxicity and antibacterial assessment. 2018 , 106, 784-792	50
554	Nanocrystalline celluloses-assisted preparation of hierarchical carbon monoliths for hexavalent chromium removal. 2018 , 510, 77-85	20
553	Polymer nanocomposites with cellulose nanocrystals made by co-precipitation. 2018 , 135, 45648	15
552	Cellulose nanocrystals modified with quaternary ammonium salts and its reinforcement of polystyrene. 2018 , 75, 2151-2166	16
551	Cellulose nanofiber isolation from palm oil Empty Fruit Bunches (EFB) through strong acid hydrolysis. 2018 , 141, 012027	6
550	Preparation of Poly(vinyl alcohol) Microspheres Based on Droplet Microfluidic Technology. 2018 , 46, 1269-1274	7
549	Isolation of nanocellulose from oil palm empty fruit bunches using strong acid hydrolysis. 2018 ,	7
548	Use of Ginger Nanofibers for the Preparation of Cellulose Nanocomposites and Their Antimicrobial Activities. 2018 , 6, 79	23
547	Optimizing Yield of Microcrystalline Cellulose from Empty Fruit Bunch Via Hydrolysis Using Ionic Liquid. 2018 , 429, 012060	1
546	Critical review on agrowaste cellulose applications for biopolymers. 2018 , 22, 185-216	41

545	Expression and Characteristics of Two Glucose-Tolerant GH1 β -glucosidases From YIM 77502 for Promoting Cellulose Degradation. 2018 , 9, 3149	8
544	Nanocrystalline cellulose from agricultural waste: an overview. 2018 , 10, 284	4
543	Ice-Templated Porous Nanocellulose-Based Materials: Current Progress and Opportunities for Materials Engineering. 2018 , 8, 2463	28
542	Cellulose Aerogels for Thermal Insulation in Buildings: Trends and Challenges. 2018 , 8, 345	35
541	Review of the Mechanistic Roles of Nanocellulose, Cellulosic Fibers, and Hydrophilic Cellulose Derivatives in Cellulose-Based Absorbents. 2018 , 1-31	
540	Co-Production of Cellulose Nanocrystals and Fermentable Sugars Assisted by Endoglucanase Treatment of Wood Pulp. 2018 , 11,	18
539	Feasibility of using cellulose filaments as a viscosity modifying agent in self-consolidating concrete. 2018 , 94, 327-340	25
538	Amine functionalization of cellulose nanocrystals for acid-base organocatalysis: surface chemistry, cross-linking, and solvent effects. 2018 , 25, 6495-6512	22
537	Enzymatic Conversion of Sugarcane Lignocellulosic Biomass as a Platform for the Production of Ethanol, Enzymes and Nanocellulose. 2018 , 6, 203-216	17
536	Quantification of accessible hydroxyl groups in cellulosic pulps by dynamic vapor sorption with deuterium exchange. 2018 , 25, 6923-6934	17
535	Ultrasonic Irradiation Coupled with Microwave Treatment for Eco-friendly Process of Isolating Bacterial Cellulose Nanocrystals. 2018 , 8,	14
534	Obtaining Hydrophobic Aerogels of Unbleached Cellulose Nanofibers of the Species Eucalyptus sp. and Pinus elliottii. 2018 , 2018, 1-11	3
533	Nanocrystalline Cellulose: Production and Applications. 2018 , 385-405	
532	Enhancement of paperboard performance as packaging material by layering with plasticized polyhydroxybutyrate/nanocellulose coatings. 2018 , 135, 46872	11
531	Systems Biology. 2018 ,	0
530	A Nano-Ink for gel pens based on scalable CNC preparation. 2018 , 25, 6465-6478	13
529	Nanocellulose: A New Multifunctional Tool for RNA Systems Biology Research. 2018 , 373-401	
528	Nanotechnology Prospects and Constraints in Agriculture. 2018 , 159-186	2

527	Solvent processing of cellulose for effective bioresource utilization. 2018 , 14, 40-52	20
526	Nanocomposites of acid free CNC and HDPE: Dispersion from solvent driven by fast crystallization/gelation. 2018 , 266, 233-241	6
525	Surface Functionalization of Nanocellulose-Based Hydrogels. 2018 , 1-29	1
524	Isolation of nanocrystalline cellulose from tunicates. 2018 , 6, 4408-4412	37
523	Microelectromechanical Systems from Aligned Cellulose Nanocrystal Films. 2018 , 10, 24116-24123	8
522	Natural fiber reinforced vinyl polymer composites. 2018 , 27-70	13
521	Recent Strategies in Preparation of Cellulose Nanocrystals and Cellulose Nanofibrils Derived from Raw Cellulose Materials. 2018 , 2018, 1-25	92
520	Cotton Cellulose-Derived Hydrogels with Tunable Absorbability: Research Advances and Prospects. 2018 , 1-27	
519	Grafted Nanocellulose as an Advanced Smart Biopolymer. 2018 , 521-549	2
518	Anionic micro-cellulose (AMC): preparation, characterization, and application as a novel heterogeneous base catalyst. 2018 , 25, 5277-5287	4
517	Nanostructured biomimetic, bioresponsive, and bioactive biomaterials. 2018 , 35-65	1
516	Nano crystalline cellulose sulfuric acid (s-NCC): a novel green nanocatalyst for the synthesis of polyhydroxy pyrimidine-fused heterocyclic compounds (PPFHs). 2018 , 25, 5697-5709	17
515	Synthetic Strategies for the Fabrication of Cationic Surface-Modified Cellulose Nanocrystals. 2018 , 6, 15	21
514	Integration of a Copper-Containing Biohybrid (CuHARS) with Cellulose for Subsequent Degradation and Biomedical Control. 2018 , 15,	4
513	Carbohydrate-Based Nanofibers: Applications and Potentials. 2018 , 1-23	
512	Cellulose Aerogels: Synthesis, Applications, and Prospects. 2018 , 10,	170
511	Pickering emulsions stabilized by naturally derived or biodegradable particles. 2018 , 12, 83-90	73
510	Characterization of structure and stability of emulsions stabilized with cellulose macro/nano particles. <i>Carbohydrate Polymers</i> , 2018 , 199, 314-319	10.3 21

509	Review and in silico analysis of fermentation, bioenergy, fiber, and biopolymer genes of biotechnological interest in Agave L. for genetic improvement and biocatalysis. 2018 , 34, 1314-1334	3
508	Effect of lignin on the thermal properties of nanocrystalline prepared from kenaf core. 2018 , 368, 012039	8
507	Comparative Study of the Electrochemical, Biomedical, and Thermal Properties of Natural and Synthetic Nanomaterials. 2018 , 13, 112	10
506	One-pot construction of cellulose-gelatin supramolecular hydrogels with high strength and pH-responsive properties. <i>Carbohydrate Polymers</i> , 2018 , 196, 225-232	10.3 25
505	Cellulose and Nanocellulose Produced from Lignocellulosic Residues by Reactive Extrusion. 2018 , 227-242	2
504	Properties of Micro- and Nano-Reinforced Biopolymers for Food Applications. 2018 , 61-99	6
503	Nanoparticle Manufacturing [Heterogeneity through Processes to Products. 2018 , 1, 4358-4385	44
502	A Review on Preparation and Properties of Cellulose Nanocrystal-Incorporated Natural Biopolymer. 2018 , 2, 149-166	19
501	Nanocelluloses From Sugarcane Biomass. 2018 , 179-196	9
500	Effect of ultrasonication on physicochemical properties of apple based nanocellulose-calcium carbonate composites. 2018 , 25, 4603-4621	24
499	Bio-Based Nanocomposites in Food Packaging. 2018 , 71-110	10
498	Lignocellulosic Materials and Their Use in Bio-based Packaging. 2018 ,	8
497	Lignocellulosic Materials: Sources and Processing Technologies. 2018 , 13-33	3
496	Functional Properties of Lignocellulosic Materials. 2018 , 35-47	1
495	Emerging role of nanobiocatalysts in hydrolysis of lignocellulosic biomass leading to sustainable bioethanol production. 2019 , 61, 1-26	52
494	Mechanism and kinetics of thermal degradation of insulating materials developed from cellulose fiber and fire retardants. 2019 , 135, 3015-3027	16
493	Hydrolytic and thermal degradation of polyethylene glycol compatibilized poly(lactic acid)-nanocrystalline cellulose bionanocomposites. 2019 , 136, 46933	2
492	Organosolv fractionation and simultaneous conversion of lignocellulosic biomass in aqueous 1,4-butanediol/acidic ionic-liquids solution. 2019 , 138, 111573	20

491	Curaua cellulose sheets dip coated with micro and nano carnauba wax emulsions. 2019 , 26, 7983-7993	12
490	Carbohydrate-Based Nanofibers: Applications and Potentials. 2019 , 263-285	1
489	Effect of cellulose nanofibrils and nanocrystals on physical properties of concrete. 2019 , 223, 1-11	27
488	The Effect of Cellulose Nanocrystal Coatings on the Glass Fiber-Epoxy Interphase. 2019 , 12,	14
487	Nanocellulose Composite Biomaterials in Industry and Medicine. 2019 , 693-784	4
486	Hierarchically Structured CeO Catalyst Particles From Nanocellulose/Alginate Templates for Upgrading of Fast Pyrolysis Vapors. 2019 , 7, 730	6
485	. 2019 ,	17
484	Isolation and Characterization of Cellulose Nanofibers from Argentine Tacuara Cane (<i>Guadua Angustifolia</i> Kunth). 2019 , 7, 373-381	4
483	Using lignocellulosic fractions of coffee husk to improve properties of compatibilised starch-PLA blend films. 2019 , 22, 100423	13
482	Role of Cellulose Micro and Nano Crystals in Thin Film and Support Layer of Nanocomposite Membranes for Brackish Water Desalination. 2019 , 9,	17
481	Nanocellulose isolation characterization and applications: a journey from non-remedial to biomedical claims. 2019 , 2, 187-212	21
480	Production of Nanocellulose and Its Applications in Drug Delivery: A Critical Review. 2019 , 7, 15800-15827	85
479	Fabrication and Characterization of Polypropylene \square Microcrystalline Cellulose Based Composites with Enhanced Compatibility. 2019 ,	6
478	Cellulose nanocrystals prepared from wheat bran: Characterization and cytotoxicity assessment. 2019 , 140, 225-233	46
477	Eight out of eight: a detailed kinetic study on the reactivities of the eight hydroxyl groups of sucrose with phenyl isocyanate. 2019 , 43, 15316-15325	2
476	Valorization of energy crops as a source for nanocellulose production \square Current knowledge and future prospects. 2019 , 140, 111642	34
475	Preparation and Characterization of Nanocelluloses from Oil Palm Empty Fruit Bunch Cellulose. 2019 , 98, 194-201	2
474	Enhanced mechanical and oxygen barrier performance in biodegradable polyurethanes by incorporating cellulose nanocrystals with interfacial polylactide stereocomplexation. 2019 , 26, 9751-9764	16

473	Improving properties of thermoplastic starch films by incorporating active extracts and cellulose fibres isolated from rice or coffee husk. 2019 , 22, 100383	30
472	Polydopamine-coated cellulose nanocrystals as an active ingredient in poly(vinyl alcohol) films towards intensifying packaging application potential. 2019 , 26, 9599-9612	35
471	Production of cellulose nanofibrils from alfa fibers and its nanoreinforcement potential in polymer nanocomposites. 2019 , 26, 9567-9581	29
470	An Abbreviated Historical and Structural Introduction to Lignocellulose. 2019 , 1-15	1
469	Surface-Initiated Atom Transfer Radical Polymerization for the Preparation of Well-Defined Organic-Inorganic Hybrid Nanomaterials. 2019 , 12,	15
468	Influence of chitosan addition on the mechanical and antibacterial properties of carrot cellulose nanofibre film. 2019 , 26, 9613-9629	27
467	Tailored nanocellulose structure depending on the origin. Example of apple parenchyma and carrot root celluloses. <i>Carbohydrate Polymers</i> , 2019 , 210, 186-195	10.3 20
466	Nanocellulose in the Paper Making. 2019 , 1027-1066	6
465	Lignocellulosic materials as novel carriers, also at nanoscale, of organic active principles for agri-food applications. 2019 , 161-178	1
464	Lignocellulosic materials as reinforcements in sustainable packaging systems. 2019 , 87-102	5
463	Nanofibrillated Cellulose-Based Nanocomposites. 2019 , 67-86	3
462	Silylation of TEMPO oxidized nanocellulose from oil palm empty fruit bunch by 3-aminopropyltriethoxysilane. 2019 , 135, 106-112	20
461	Polymer Composites Reinforced with Natural Fibers and Nanocellulose in the Automotive Industry: A Short Review. 2019 , 3, 51	73
460	Activity modelling of the solid-liquid equilibrium of deep eutectic solvents. 2019 , 91, 1341-1349	14
459	Nanocellulose-based polymer hybrids and their emerging applications in biomedical engineering and water purification.. 2019 , 9, 19143-19162	57
458	Compostable composites of wheat stalk micro- and nanocrystalline cellulose and poly(butylene adipate-co-terephthalate): Surface properties and degradation behavior. 2019 , 136, 48149	14
457	A fundamental understanding of whole biomass dissolution in ionic liquid for regeneration of fiber by solution-spinning. 2019 , 21, 4354-4367	14
456	A review of cellulose-based substrates for SERS: fundamentals, design principles, applications. 2019 , 26, 6489-6528	63

455	A comprehensive characterization of ice nucleation by three different types of cellulose particles immersed in water. 2019 , 19, 4823-4849		33
454	Synthesis of Valerolactone from different biomass-derived feedstocks: Recent advances on reaction mechanisms and catalytic systems. 2019 , 112, 140-157		63
453	Extraction and characterization of nanocellulose crystals from cotton gin motes and cotton gin waste. 2019 , 26, 5959-5979		48
452	Modifications of microcrystalline cellulose (MCC), nanofibrillated cellulose (NFC), and nanocrystalline cellulose (NCC) for antimicrobial and wound healing applications. 2019 , 19, 103-119		53
451	Cellulose Nanocrystals: Particles and Polymer Nanocomposites. 2019 , 395-434		2
450	Nature-derived fibrous nanomaterial toward biomedicine and environmental remediation: Today's state and future prospects. 2019 , 136, 47878		20
449	Mathematical modeling of mechanical and barrier properties of poly(lactic acid)/poly(butylene adipate-co-terephthalate)/thermoplastic starch based nanocomposites. 2019 , 261, 60-65		10
448	Cellulose Nanocrystals: Production, Functionalization and Advanced Applications. 2019 , 58, 1-16		35
447	Cellulose nanofibres from bagasse using a high speed blender and acetylation as a pretreatment. 2019 , 26, 4799-4814		16
446	Isolation and acetylation of cellulose nanostructures with a homogeneous system. <i>Carbohydrate Polymers</i> , 2019 , 218, 208-217	10.3	16
445	Preparation of cellulosic Ag-nanocomposites using an ionic liquid. 2019 , 30, 785-796		3
444	Nanocrystalline cellulose: Preparation, physicochemical properties, and applications in drug delivery systems. 2019 , 133, 850-859		49
443	Nanocellulose obtained from residues of peach palm extraction (<i>Bactris gasipaes</i>). <i>Carbohydrate Polymers</i> , 2019 , 218, 8-19	10.3	30
442	Valorization of royal palm tree agroindustrial waste by isolating cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019 , 218, 188-198	10.3	31
441	Lignocellulose-Based Nanoparticles and Nanocomposites: Preparation, Properties, and Applications. 2019 , 41-69		9
440	Lignocellulose Structure and the Effect on Nanocellulose Production. 2019 , 17-30		2
439	Tailoring Thermal Transport Properties of Graphene Paper by Structural Engineering. 2019 , 9, 4549		5
438	Synthesis of cellulose nanocrystal armored latex particles for mechanically strong nanocomposite films. 2019 , 10, 1823-1831		21

437	A consolidated road map for economically gainful efficient utilization of agro-wastes for eco-friendly products. 2019 , 13, 899-911	5
436	Algae as a Source of Microcrystalline Cellulose. 2019 , 331-350	8
435	Husks of as a potential source of biopolymers for food additives and materials' development. 2019 , 5, e01313	5
434	Human blood plasma catalyses the degradation of Lycopodium plant sporoderm microcapsules. 2019 , 9, 2944	3
433	Preparation and Structural Investigation of Novel β -Chitin Nanocrystals from Cuttlefish Bone. 2019 , 5, 1744-1752	13
432	Exploration of Other High-Value Applications of Nanocellulose. 2019 , 423-473	
431	Integral Fractionation of Rice Husks into Bioactive Arabinoxylans, Cellulose Nanocrystals, and Silica Particles. 2019 , 7, 6275-6286	12
430	Sustainable, nanostructured, and bio-based polyurethanes for energy-efficient sandwich structures applied to the construction industry. 2019 , 135-160	6
429	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structure?Property Relationship. 2019 , 12,	67
428	Dietary fibre from berry-processing waste and its impact on bread structure: a review. 2019 , 99, 4189-4199	14
427	Nanocellulose for improved concrete performance: A macro-to-micro investigation for disclosing the effects of cellulose filaments on strength of cement systems. 2019 , 206, 84-96	45
426	Production of nanocellulose by enzymatic hydrolysis: Trends and challenges. 2019 , 19, 279-291	82
425	Novel Nanoscaled Materials from Lignocellulosic Sources: Potential Applications in the Agricultural Sector. 2019 , 2657-2679	3
424	Isolation and characterization of cellulose fibers from <i>Thespesia populnea</i> barks: A study on physicochemical and structural properties. 2019 , 129, 396-406	57
423	Bio-sourced porous cellulose microfibrils from coffee pulp for wastewater treatment. 2019 , 26, 3873-3889	17
422	Surface Properties of Non-conventional Cellulose Fibres. 2019 ,	3
421	Extraction of cellulose nanofibers from <i>cocos nucifera</i> var <i>aurantiaca</i> peduncle by ball milling combined with chemical treatment. <i>Carbohydrate Polymers</i> , 2019 , 212, 312-322	10.3 31
420	Anatomy of Plant Fibres. 2019 , 7-15	

419	Cellulose Nanofibres. 2019 , 61-71	4
418	Lignin-Containing Cellulose Nanomaterials: A Promising New Nanomaterial for Numerous Applications. 2019 , 4, 3-10	102
417	Application of waste sorghum stem (sorghum bicolor) as a raw material for microfibre cellulose. 2019 , 509, 012015	3
416	Preparation and characterization of nanocrystalline cellulose using ultrasonic assisted autohydrolysis. 2019 , 374, 012008	0
415	Isolation and characterization of cellulose and hemicellulose from date palm biomass waste. 2019 , 5, e02937	38
414	Shape tunability of carbonized cellulose nanocrystals. 2019 , 1, 1	7
413	Development of Bilayer Biodegradable Composites Containing Cellulose Nanocrystals with Antioxidant Properties. 2019 , 11,	11
412	An insight into nanocellulose as soft condensed matter: Challenge and future prospective toward environmental sustainability. 2019 , 650, 1309-1326	50
411	Sustainable control strategies for plant protection and food packaging sectors by natural substances and novel nanotechnological approaches. 2019 , 99, 986-1000	37
410	Study on friction and wear of Cellulose Nanocrystal (CNC) nanoparticle as lubricating additive in engine oil. 2019 , 131, 1196-1204	50
409	Preparation and characterization of nanocomposite films based on gum arabic, maltodextrin and polyethylene glycol reinforced with turmeric nanofiber isolated from turmeric spent. 2019 , 97, 723-729	20
408	A critical review of cellulose-based nanomaterials for water purification in industrial processes. 2019 , 26, 687-701	94
407	Recent advances in nanoengineering cellulose for cargo delivery. 2019 , 294, 53-76	59
406	A review on versatile applications of blends and composites of CNC with natural and synthetic polymers with mathematical modeling. 2019 , 124, 591-626	33
405	Production and modification of nanofibrillated cellulose composites and potential applications. 2019 , 115-141	5
404	Cotton Cellulose-Derived Hydrogels with Tunable Absorbability: Research Advances and Prospects. 2019 , 331-356	
403	Surface Functionalization of Nanocellulose-Based Hydrogels. 2019 , 705-733	2
402	Review of the Mechanistic Roles of Nanocellulose, Cellulosic Fibers, and Hydrophilic Cellulose Derivatives in Cellulose-Based Absorbents. 2019 , 123-153	2

401	Optimized fabrication of newly cholesterol biosensor based on nanocellulose. 2019 , 126, 1213-1222		29
400	Valorization of industrial paper waste by isolating cellulose nanostructures with different pretreatment methods. 2019 , 143, 133-142		36
399	Crystalline nanocellulose/thermoplastic polyester composites prepared by in situ polymerization. 2019 , 59, 989-995		11
398	Preparation, structural changes and adsorption performance of heavy metal ions on sulfonated cellulose with varying degrees of substitution. 2019 , 73, 501-507		1
397	Nanocrystalline cellulose as a reinforcing agent for electrospun polyacrylonitrile (PAN) nanofibers. 2019 , 61, 37-42		4
396	Isolation and characterization of cellulose nanocrystals from pineapple crown waste and their potential uses. 2019 , 122, 410-416		73
395	Green synthesis of cellulose nanofibers using immobilized cellulase. <i>Carbohydrate Polymers</i> , 2019 , 205, 255-260	10.3	43
394	Biomass and waste materials as potential sources of nanocrystalline cellulose: Comparative review of preparation methods (2016 - Till date). <i>Carbohydrate Polymers</i> , 2019 , 207, 418-427	10.3	43
393	Pyrus pyrifolia fruit peel as sustainable source for spherical and porous network based nanocellulose synthesis via one-pot hydrolysis system. 2019 , 123, 1305-1319		23
392	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
391	Availability and Suitability of Agroindustrial Residues as Feedstock for Cellulose-Based Materials: Brazil Case Study. 2019 , 10, 2863-2878		14
390	Main Characteristics of Underexploited Amazonian Palm Fibers for Using as Potential Reinforcing Materials. 2019 , 10, 3125-3142		2
389	Optimizing the Acid Hydrolysis Process for the Isolation of Microcrystalline Cellulose from Oil Palm Empty Fruit Bunches Using Response Surface Methods. 2020 , 11, 2755-2770		2
388	Polysaccharide Based Rubber Nanocomposites. 2020 , 187-199		
387	Comparison of morphological, structural and antibacterial properties of different Apocynum venetum poly (lactic acid)/nanocellulose nanofiber films. 2020 , 90, 593-605		5
386	Study of plant and tunicate based nanocrystalline cellulose in hybrid polymeric nanocomposites. 2020 , 27, 249-261		12
385	Oil palm empty fruit bunch-based nanocellulose as a super-adsorbent for water remediation. <i>Carbohydrate Polymers</i> , 2020 , 229, 115433	10.3	45
384	Nanocellulose for oil and gas field drilling and cementing applications. 2020 , 184, 106292		25

383	Steam explosion pretreatment to obtain eco-friendly building blocks from oil palm mesocarp fiber. 2020 , 143, 111907	21
382	Waste paper: An underutilized but promising source for nanocellulose mining. 2020 , 102, 281-303	56
381	Preparation and mechanism analysis of morphology-controlled cellulose nanocrystals via compound enzymatic hydrolysis of eucalyptus pulp. 2020 , 137, 48407	16
380	Enhancing Chlorine-Free Purification Routes of Rice Husk Biomass Waste to Obtain Cellulose Nanocrystals. 2020 , 11, 6595-6611	12
379	Nanocellulose as an inhibitor of water-in-crude oil emulsion formation. 2020 , 264, 116830	11
378	Impact of pretreatment methods on production of bioethanol and nanocrystalline cellulose. 2020 , 254, 119914	15
377	Isolation of microcrystalline cellulose from corn stover with emphasis on its constituents: Corn cover and corn cob. 2020 , 27, 589-594	9
376	Preparation and Characterization of Sulfated Cellulose Nanocrystalline and its Composite Membrane for Removal of Tetracycline Hydrochloride in Water. 2020 , 3, 209-215	6
375	Cellulose-based materials in wastewater treatment of petroleum industry. 2020 , 5, 37-49	74
374	The Topochemistry of Cellulose Nanofibrils as a Function of Mechanical Generation Energy. 2020 , 8, 1471-1478 ₁₁	
373	Rheological properties of magnetorheological suspensions stabilized with nanocelluloses. <i>Carbohydrate Polymers</i> , 2020 , 231, 115776	10.3 20
372	Improvement of permeability and rejection of an acid resistant polysulfonamide thin-film composite nanofiltration membrane by a sulfonated poly(ether ether ketone) interlayer. 2020 , 239, 116528	20
371	Lignin-Based Hydrogels: Synthesis and Applications. 2020 , 12,	55
370	Characterization of size and aggregation for cellulose nanocrystal dispersions separated by asymmetrical-flow field-flow fractionation. 2020 , 27, 2015-2028	11
369	Deep eutectic solvent for lignocellulosic biomass fractionation and the subsequent conversion to bio-based products - A review. 2020 , 297, 122522	83
368	Maximizing production of cellulose nanocrystals and nanofibers from pre-extracted loblolly pine kraft pulp: a response surface approach. 2020 , 7,	20
367	Minimizing Organic Waste Generated by Pineapple Crown: A Simple Process to Obtain Cellulose for the Preparation of Recyclable Containers. 2020 , 5, 24	3
366	Nanocellulose: a promising green treasure from food wastes to available food materials. 2020 , 1-14	16

365	Pretreatment and fermentation of lignocellulosic biomass: reaction mechanisms and process engineering. 2020 , 5, 2017-2047	22
364	Phosphorylase-catalyzed bottom-up synthesis of short-chain soluble cello-oligosaccharides and property-tunable cellulosic materials. 2021 , 51, 107633	13
363	Antimicrobial Activities of Starch-Based Biopolymers and Biocomposites Incorporated with Plant Essential Oils: A Review. 2020 , 12,	61
362	Clonal Variation in the Bark Chemical Properties of Hybrid Aspen: Potential for Added Value Chemicals. 2020 , 25,	5
361	Nanocellulose-based products for sustainable applications-recent trends and possibilities. 2020 , 19, 779-806	32
360	The current status of the enzyme-mediated isolation and functionalization of nanocelluloses: production, properties, techno-economics, and opportunities. 2020 , 27, 10571-10630	15
359	Preparation and characterization of cellulose nanocrystal extracted from ramie fibers by sulfuric acid hydrolysis. 2020 , 6, e05486	29
358	Carboxylated cellulose nanofiber/montmorillonite nanocomposite for the removal of levofloxacin hydrochloride antibiotic from aqueous solutions.. 2020 , 10, 42038-42053	11
357	Influence of Chemical Pre-Treatments and Ultrasonication on the Dimensions and Appearance of Cellulose Fibers. 2020 , 13,	6
356	Extraction of lignocellulosic constituents from cow dung: preparation and characterisation of nanocellulose. 2020 , 1	5
355	Cellulose hydrolysis using ionic liquids and inorganic acids under dilute conditions: morphological comparison of nanocellulose.. 2020 , 10, 39413-39424	22
354	Nanocellulose/Starch Biopolymer Nanocomposites: Processing, Manufacturing, and Applications. 2020 , 65-88	16
353	Valorization of agricultural wastes for multidimensional use. 2020 , 41-78	3
352	Effect of sequential acid-alkaline treatment on physical and chemical characteristics of lignin and cellulose from pine (<i>Pinus</i> spp.) residual sawdust. 2020 , 316, 123884	16
351	Production Nanocellulose from Raw Materials For Oil Palm Empty Bunches (TKKS) with Hydrolysis and Freeze Drying Methods. 2020 , 742, 012033	2
350	Fungal lytic polysaccharide monooxygenases in biofuel production from agricultural waste. 2020 , 161-180	1
349	A two-stage C5 selective hydrolysis on soybean hulls for xylose separation and value-added cellulose applications. 2020 , 1	1
348	Nanocellulose Production: Exploring the Enzymatic Route and Residues of Pulp and Paper Industry. 2020 , 25,	60

347	Crystallinity of nanocellulose isolated from the flower waste of pine tree (<i>Pinus merkusii</i>). 2020 , 833, 012003	0
346	Nano-food Engineering. 2020 ,	1
345	Biosorption of copper using nopal fibres: moolooite formation and magnesium role in the reactive crystallization mechanism. 2020 , 27, 10259-10276	2
344	Cellulose nanocrystals/graphene oxide composite for the adsorption and removal of levofloxacin hydrochloride antibiotic from aqueous solution. 2020 , 7, 200857	19
343	Investigation of physical and mechanical properties of nano-pulverized cellulose nanofiber preform sheets for CNF thermoset nanocomposites application. 2020 , 54, 1349-1362	1
342	Comparative Analysis of Bio-Intermediates and Waste-Derived Fuels in Experimental Gas Turbine. 2020 , 6,	3
341	Isolation of nanocellulose from hemp (<i>Cannabis sativa</i>) fibers by chemo-mechanical method and its characterization. 2020 , 41, 5257-5268	6
340	A Potency of Microcellulose from Pineapple Leave Isolated by Hydrolysis-Assisted Sonication. 2020 , 833, 012020	
339	Biorefinery of Biomass of Agro-Industrial Banana Waste to Obtain High-Value Biopolymers. 2020 , 25,	15
338	Physico-mechanical Properties of Unsaturated Polyester Resin Reinforced Maize Cob and Jute Fiber Composites. 2020 , 1-13	12
337	On the toxicity of cellulose nanocrystals and nanofibrils in animal and cellular models. 2020 , 27, 5509-5544	33
336	Cellulose nanocrystals from grape pomace and their use for the development of starch-based nanocomposite films. 2020 , 159, 1048-1061	30
335	Enhancement of Adhesive Strength of Epoxy/Carboxyl-Terminated Poly(butadiene-co-acrylonitrile) Nanocomposites Using Waste Hemp Fiber-Derived Cellulose Nanofibers. 2020 , 59, 10904-10913	4
334	Nanocellulose: From Fundamentals to Advanced Applications. 2020 , 8, 392	222
333	Characterization of New Cellulosic <i>Cyrtostachys renda</i> and <i>Ptychosperma macarthurii</i> Fibers from Landscaping Plants. 2020 , 1-16	9
332	Tunicate Cellulose Nanocrystals as Stabilizers for PLGA-based Polymeric Nanoparticles. 2020 , 25, 206-214	4
331	Nanocellulose and nanohydrogel matrices as sustainable biomass materials: structure, properties, present status, and future prospects in construction and other engineering. 2020 , 177-195	1
330	Properties of nanocrystalline cellulose from pineapple crown leaf waste. 2020 , 796, 012007	5

329	Optimization on the synthesis of bacterial nano cellulose (BNC) from banana peel waste for water filter membrane applications. 2020 , 7, 055010	9
328	Mechanical and thermal characterization of polypropylene-reinforced nanocrystalline cellulose nanocomposites. 2020 , 089270572092512	3
327	Biopolymers from Lignocellulosic Biomass. 2020 , 125-158	7
326	Sustainable synthesis and applications of polyhydroxyalkanoates (PHAs) from biomass. 2020 , 96, 174-193	40
325	Effect of Purification Methods on Commercially Available Cellulose Nanocrystal Properties and TEMPO Oxidation. 2020 , 8, 698	6
324	Agro-waste extracted cellulose supported silver phosphate nanostructures as a green photocatalyst for improved photodegradation of RhB dye and industrial fertilizer effluents. 2020 , 2, 2870-2884	8
323	Cellulose nanocrystals from blueberry pruning residues isolated by ionic liquids and TEMPO-oxidation combined with mechanical disintegration. 2020 , 41, 1731-1741	9
322	Mechanical Characterization on Solvent Treated Cellulose Nanofiber Preforms Using Solution Dipping-Hot Press Technique. 2020 , 10,	2
321	Nanocellulose Dewatering and Drying: Current State and Future Perspectives. 2020 , 8, 9601-9615	31
320	Introduction to Bionanotechnology. 2020 ,	3
319	Preparation and characterizations of oil palm fronds cellulose nanocrystal (OPF-CNC) as reinforcing filler in epoxy-Zn rich coating for mild steel corrosion protection. 2020 , 153, 385-398	10
318	An injectable chitosan-based hydrogel scaffold containing gold nanoparticles for tissue engineering applications. 2020 , 154, 198-205	52
317	Isolation and characterization of nanocrystalline cellulose from flaxseed Hull: A future onco-drug delivery agent. 2020 , 24, 374-379	7
316	Plant and bacterial nanocellulose: production, properties and applications in medicine, food, cosmetics, electronics and engineering. A review. 2020 , 18, 851-869	75
315	Activated carbons prepared by indirect and direct CO ₂ activation of lignocellulosic biomass for supercapacitor electrodes. 2020 , 155, 38-52	53
314	Ultrasound-assisted preparation of nanocomposites based on fibrous clay minerals and nanocellulose from microcrystalline cellulose. 2020 , 189, 105538	8
313	Valorization of lignocellulosic-based wastes. 2020 , 383-410	4
312	Acidic deep eutectic solvent assisted isolation of lignin containing nanocellulose from thermomechanical pulp. <i>Carbohydrate Polymers</i> , 2020 , 247, 116727	10.3 25

311	Sonochemical production of nanoscaled crystalline cellulose using organic acids. 2020 , 22, 4627-4639		7
310	Extraction and characterization of nanocrystalline cellulose (NCC) from ramie fiber by sulphuric acid hydrolysis. 2020 ,		4
309	Green and Sustainable Valorization of Bioactive Phenolic Compounds from By-Products. 2020 , 25,		42
308	Recent progress in cellulose-based smart nanocrystals by agricultural resources. 2020 , 461-483		2
307	Evaluation of Ultraviolet Light and Hydrogen Peroxide Enhanced Ozone Oxidation Treatment for the Production of Cellulose Nanofibrils. 2020 , 8, 2688-2697		14
306	Nanoparticles Based on Hydrophobic Polysaccharide Derivatives-Formation Principles, Characterization Techniques, and Biomedical Applications. 2020 , 20, e1900415		42
305	Mechanically Robust Antibacterial Nanopapers Through Mixed Dimensional Assembly for Anionic Dye Removal. 2020 , 28, 1279-1291		4
304	Advances in Sustainable Polymers. 2020 ,		3
303	Sunflower oil-based MCC surface modification to achieve improved thermomechanical properties of a polypropylene composite. 2020 , 27, 4355-4371		4
302	Preparation of bio-eco based cellulose nanomaterials from used disposal paper cups through citric acid hydrolysis. <i>Carbohydrate Polymers</i> , 2020 , 235, 115997	10.3	23
301	Development and characterization of sisal and jute cellulose reinforced polymer composite. 2020 , 28, 556-561		3
300	Value-added chemicals and materials from lignocellulosic biomass. 2020 , 367-436		3
299	Development and optimization of antimicrobial active films produced with a reinforced and compatibilized biodegradable polymers. 2020 , 24, 100459		24
298	. 2020 ,		7
297	Cellulose Nanocrystal Reinforced Chitosan Based UV Barrier Composite Films for Sustainable Packaging. 2020 , 12,		37
296	Nanocellulose from recycled indigo-dyed denim fabric and its application in composite films. <i>Carbohydrate Polymers</i> , 2020 , 240, 116283	10.3	21
295	Immobilization of nano-zero-valent irons by carboxylated cellulose nanocrystals for wastewater remediation. 2020 , 14, 1006-1017		8
294	Geospatial investigation of physicochemical properties and thermodynamic parameters of biomass residue for energy generation. 2020 , 1		6

293	Nanocellulose in polymer nanocomposite. 2020 , 357-366		2
292	Characterization of cellulose nanoparticles for materials device applications and development. 2021 , 38, 595-598		1
291	Corrosion and mechanical behaviour of biodegradable PLA-cellulose nanocomposite coating on AZ31 magnesium alloy. 2021 , 37, 236-245		6
290	Esterification of sugarcane bagasse by citric acid for Pb adsorption: effect of different chemical pretreatment methods. 2021 , 28, 11869-11881		5
289	Flexible polyurethane foams reinforced with organic and inorganic nanofillers. 2021 , 138, 49983		6
288	Characterization of bio-nanocomposite films based on gelatin/polyvinyl alcohol blend reinforced with bacterial cellulose nanowhiskers for food packaging applications. 2021 , 113, 106454		51
287	TEMPO-oxidized cellulose fibers from wheat straw: Effect of ultrasonic pretreatment and concentration on structure and rheological properties of suspensions. <i>Carbohydrate Polymers</i> , 2021 , 255, 117386	10.3	10
286	Preparation of nanocellulose in high yield via chemi-mechanical synergy. <i>Carbohydrate Polymers</i> , 2021 , 251, 117094	10.3	18
285	Sustainability in e-commerce packaging: A review. 2021 , 280, 124314		37
284	The Potentials of Corn Waste Lignocellulosic Fibre as an Improved Reinforced Bioplastic Composites. 2021 , 29, 363-381		15
283	Modification of microfibrillated cellulosic foams in a dielectric barrier discharge at atmospheric pressure. 2021 , 18, 2000158		2
282	Applications of sustainable polymer composites in automobile and aerospace industry. 2021 , 185-207		20
281	Isolation and characterization of cellulose nanocrystals (CNCs) from industrial denim waste using ammonium persulfate. 2021 , 26, 101817		9
280	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
279	Advances in the use of microgels as emulsion stabilisers and as a strategy for cellulose functionalisation. 2021 , 28, 647-670		9
278	Isolation and characterization of cellulose nanowhiskers from <i>Acacia caesia</i> plant. 2021 , 138, 50213		13
277	Nanoparticles in sustainable agriculture: An emerging opportunity. 2021 , 329, 1234-1248		60
276	Pretreatment of Mango (<i>Mangifera indica</i> L. Anacardiaceae) Seed Husk for Bioethanol Production by Dilute Acid Treatment and Enzymatic Hydrolysis. 2021 , 193, 1338-1350		4

275	Eco-friendly nanocellulose and its biomedical applications: current status and future prospect. 2021 , 32, 112-149	12
274	Status and perspectives of agricultural residues in a circular and resource-efficient context. 2021 , 49-102	1
273	Cellulose-Based Nanostructured Materials in Edible Food Packaging. 2021 , 65-100	
272	Nanostructured rigid polyurethane foams with improved specific thermo-mechanical properties using bacterial nanocellulose as a hard segment. 2021 , 138, 50520	1
271	Hybrid nanocomposites based on cellulose nanocrystals/nanofibrils with graphene and its derivatives: From preparation to applications. 2021 , 205-221	
270	Micro- and Nanocellulose in Polymer Composite Materials: A Review. 2021 , 13,	94
269	Comprehensive utilization strategy of cellulose in a facile, controllable, high-yield preparation process of cellulose nanocrystals using aqueous tetrabutylphosphonium hydroxide. 2021 , 23, 1805-1815	3
268	Microcrystalline cellulose and nanocrystalline cellulose. 2021 , 509-536	2
267	Nanocellulose-reinforced biocomposites. 2021 , 461-494	1
266	Bacterial cellulose: Trends in synthesis, characterization, and applications. 2021 , 923-974	3
265	A Sustainable Approach for the Synthesis of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Biocomposite by Employing Corn-cob-Derived Nanocellulose as a Reinforcing Agent. 2021 , 29, 2080-2095	0
264	Cellulose nanocrystals from orange and lychee biorefinery wastes and its implementation as tetracycline drug transporter. 1	3
263	Thermo-responsive cotton fabric prepared by enzyme-initiated graft from polymerization for moisture/thermal management. 2021 , 28, 1795-1808	3
262	Green Composite as an Adequate Material for Automotive Applications. 2021 , 151-208	1
261	Effect of Nanocellulose on Water-Oil Interfacial Tension. 874, 13-19	
260	Cellulose-based biocomposites. 2021 , 135-195	1
259	Reinforced bioplastic film at different microcrystalline cellulose concentration. 2021 , 41, 77-82	2
258	Cellulose nanocrystal/nanoparticles hybrid nanocomposites: From preparation to applications. 2021 , 1-25	

- 257 Sustainable pathway towards large scale melt processing of the new generation of renewable cellulose-polyamide composites.. **2020**, 11, 637-656 7
- 256 Influence of chlorite treatment on the fine structure of alkali pretreated sugarcane bagasse. 1
- 255 Nanocomposites based on ethylene vinyl acetate reinforced with different types of nanoparticles: potential applications. **2021**, 357-377
- 254 A green technology for cellulosic nanofibers production. **2021**, 137-152
- 253 Nanocellulose-Based Materials for Heavy Metal Removal from Wastewater. **2021**, 1-34
- 252 Tuning mechanical properties of seaweeds for hard capsules: A step forward for a sustainable drug delivery medium. **2021**, 1, 100023 1
- 251 Investigation of the Structural, Thermal and Morphological Properties of Nanocellulose Synthesised from Pineapple Leaves and Sugarcane Bagasse. **2021**, 17, 4
- 250 RECENT APPLICATIONS AND INNOVATIONS OF CELLULOSE BASED MATERIALS: A CRITICAL REVIEW. **2021**, 55, 1-12 2
- 249 Optimization of the Obtaining of Cellulose Nanocrystals from Weber Var. Azul Bagasse by Acid Hydrolysis. **2021**, 11, 4
- 248 Bioplastic production from renewable lignocellulosic feedstocks: a review. **2021**, 20, 167-187 12
- 247 Bamboo Fiber Based Cellulose Nanocrystals/Poly(Lactic Acid)/Poly(Butylene Succinate) Nanocomposites: Morphological, Mechanical and Thermal Properties. **2021**, 13, 8
- 246 Starch-based biocomposite membrane reinforced by orange bagasse cellulose nanofibers extracted from ionic liquid treatment. **2021**, 28, 4137-4149 6
- 245 The Optimisation Analysis of Sand-Clay Mixtures Stabilised with Xanthan Gum Biopolymers. **2021**, 13, 3732 3
- 244 A comprehensive review of characterization, pretreatment and its applications on different lignocellulosic biomass for bioethanol production. 1 17
- 243 PREPARATION AND ANALYSIS OF CELLULOSE PFA COMPOSITES: A CRITICAL REVIEW. **2021**, 55, 299-309 1
- 242 Lipase immobilization onto Cellulose Nanocrystals (CNC) for catalyzing lipolysis of triglycerides. **2021**, 1143, 012009 2
- 241 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
- 240 Extraction and Characterization of Nano-cellulose Fibrils From Indian Sugarcane Bagasse- an Agro Waste. 1-9 2

239	CHEMICAL VALORIZATION OF CELLULOSE FROM LIGNOCELLULOSIC BIOMASS: A STEP TOWARDS SUSTAINABLE DEVELOPMENT. 2021 , 55, 207-222	7
238	Physico-mechanical and Flammability Properties of <i>Cyrtostachys renda</i> Fibers Reinforced Phenolic Resin Bio-composites. 2021 , 29, 3703-3720	2
237	Nanocellulose in Catalysis: A Renewable Support Toward Enhanced Nanocatalysis. 2021 , 139-157	0
236	Full utilization of sweet sorghum for bacterial cellulose production: A concept of material crop. 2021 , 162, 113256	9
235	Rheological Aspects of Cellulose Nanomaterials: Governing Factors and Emerging Applications. 2021 , 33, e2006052	42
234	Comparative evaluation of the effect of microfluidisation on physicochemical properties and usability as food thickener and Pickering emulsifier of autoclaved and TEMPO-oxidised nanofibrillated cellulose. 2021 , 56, 4298-4315	2
233	A Review on Agro-industrial Waste as Cellulose and Nanocellulose Source and Their Potentials in Food Applications. 1-26	3
232	Applications of Polysaccharides in Controlled Release Drug Delivery System. 2021 , 607-656	0
231	Acid Hydrolysis to Provide the Potential for Rice-Husk-Derived C/SiO ₂ Composites for Lithium-Ion Batteries. 2021 , 50, 4426-4432	2
230	Packaging and degradability properties of polyvinyl alcohol/gelatin nanocomposite films filled water hyacinth cellulose nanocrystals. 2021 , 6, 168-185	56
229	Feasibility of preparing nanofiber reinforcer of gelatin hydrogel from waste peach branches. 1	1
228	Potential of polypropylene nanocomposite reinforced with cellulose nanofiber from oil palm empty fruit bunch as sustainable packaging: A review. 2021 , 749, 012044	1
227	Study surface modified nanocellulose whiskers in coconut shell. 2021 , 1948, 012190	
226	A COMPARATIVE STUDY OF CELLULOSE NANOWHISKERS (CNWs) AND CELLULOSE NANOFIBERS (CNFs). 2021 , 55, 501-510	1
225	Preparation of cellulose nanospheres via combining ZnCl ₂ /BHO pretreatment and p-toluenesulfonic hydrolysis as a two-step method. 2021 , 181, 621-630	2
224	ISOLATION AND CHARACTERIZATION OF NANOCELLULOSE FROM SUGARCANE BAGGASE AND ITS SWELLING STUDY. 2021 , 73-74	
223	Extraction of cellulose to progress in cellulosic nanocomposites for their potential applications in supercapacitors and energy storage devices. 2021 , 56, 14448-14486	5
222	A review of nanocellulose as a new material towards environmental sustainability. 2021 , 775, 145871	61

221	Thermal and dynamic mechanical behavior of poly(lactic acid) (PLA)-based electrospun scaffolds for tissue engineering. 2021 , 138, 51313	5
220	Nanocelluloses: Sources, Pretreatment, Isolations, Modification, and Its Application as the Drug Carriers. 2021 , 13,	9
219	Isolation and modification of nano-scale cellulose from organosolv-treated birch through the synergistic activity of LPMO and endoglucanases. 2021 , 183, 101-109	3
218	Chemically Functionalized Cellulose Nanocrystals as Reactive Filler in Bio-Based Polyurethane Foams. 2021 , 13,	2
217	Extraction and Characterization of Microfibrillated Cellulose from Discarded Cotton Fibers through Catalyst Preloaded Fenton Oxidation. 2021 , 2021, 1-10	1
216	Improving Filmogenic and Barrier Properties of Nanocellulose Films by Addition of Biodegradable Plasticizers. 2021 , 9, 9647-9660	4
215	An overview on cellulose-supported semiconductor photocatalysts for water purification. 2021 , 6, 1	8
214	Importance and potential of cellulosic materials and derivatives in extrusion-based 3D concrete printing (3DCP): Prospects and challenges. 2021 , 291, 123281	5
213	Nanocellulose Coupled 2D Graphene Nanostructures: Emerging Paradigm for Sustainable Functional Applications. 2021 , 60, 10882-10916	12
212	The Potential of Macroporous Silica-Nanocrystalline Cellulose Combination for Formulating Dry Emulsion Systems with Improved Flow Properties: A DoE Study. 2021 , 13,	2
211	Hydrothermal assisted isolation of microcrystalline cellulose from pepper (<i>Piper nigrum</i> L.) processing waste for making sustainable bio-composite. 2021 , 305, 127229	4
210	Impact of Physico-Chemical Properties of Cellulose Nanocrystal/Silver Nanoparticle Hybrid Suspensions on Their Biocidal and Toxicological Effects. 2021 , 11,	3
209	Green Aspects in Molecularly Imprinted Polymers by Biomass Waste Utilization. 2021 , 13,	5
208	Mechanical and thermal properties of cellulose nanocrystals from jute fibers reinforced epoxy composites. 1-5	1
207	Surface modifications of nanocellulose: From synthesis to high-performance nanocomposites. 2021 , 119, 101418	21
206	Characterization of non-thermal dielectric barrier discharges at atmospheric pressure in presence of microfibrillated cellulosic foams. 2021 , 30, 095019	0
205	A novel method for producing cellulose nanoparticles and their possible application as thickeners for biodegradable low-temperature greases. 2021 , 28, 10203	2
204	Sustainable isolation of nanocellulose from cellulose and lignocellulosic feedstocks: Recent progress and perspectives. <i>Carbohydrate Polymers</i> , 2021 , 267, 118188	10.3 24

203	Superhydrophobic modification of nanocellulose based on an octadecylamine/dopamine system. <i>Carbohydrate Polymers</i> , 2022 , 275, 118710	10.3	2
202	Effect of ultrasonication on the size distribution and stability of cellulose nanocrystals in suspension: an asymmetrical flow field-flow fractionation study. 2021 , 28, 10221		1
201	Effect of solvent type on the dispersion quality of spray-and freeze-dried CNCs in PLA through rheological analysis. <i>Carbohydrate Polymers</i> , 2021 , 268, 118243	10.3	2
200	Colloidal Stability of Cellulose Suspensions.		
199	Recent progress on Pickering emulsions stabilized by polysaccharides-based micro/nanoparticles. 2021 , 296, 102522		6
198	Biochar and activated carbon derivatives of lignocellulosic fibers towards adsorptive removal of pollutants from aqueous systems: Critical study and future insight. 2021 , 274, 119062		16
197	Nanocellulose: A mini-review on types and use in drug delivery systems. 2021 , 2, 100031		19
196	Production of biobased materials from lignocellulosic biomass. 2022 , 165-186		
195	Cellulose nanocrystals: Fundamentals and biomedical applications. <i>Carbohydrate Polymers</i> , 2022 , 275, 118668	10.3	12
194	Fabrication and evaluation of mechanical properties of polymer matrix composite using nano fibers as a reinforcement. 2021 , 46, 1376-1383		7
193	A nano-based biofuel: remedy to boost a sustainable and greener environment. 2021 , 519-531		
192	New emerging green technologies for sustainable textiles. 2021 , 239-251		
191	Polysaccharide-derived biopolymeric nanomaterials for wastewater treatment. 2021 , 447-469		1
190	Polyethylene Composites with Lignocellulosic Material. 117-161		3
189	Nanocrystalline Cellulose: Green, Multifunctional and Sustainable Nanomaterials. 523-555		2
188	A More Efficient Fenton Oxidation Method with High Shear Mixing for the Preparation of Cellulose Nanofibers. 2020 , 72, 1900259		2
187	Extraction of Cellulose Nanofibers and Their Eco-friendly Polymer Composites. 2019 , 653-691		14
186	Application of Lignocellulosic Biomass (LCB). 2020 , 3-19		3

185	Emerging Sustainable Nanostructured Materials Facilitated by Herbal Bioactive Agents for Edible Food Packaging. 2020 , 259-285	2
184	Polysaccharides: Applications in Biology and Biotechnology/Polysaccharides from Bioagro-Waste New Biomolecules-Life. 2014 , 1-29	2
183	Nanotechnology Applications on Lignocellulosic Biomass Pretreatment. 2017 , 19-37	9
182	Biodegradable Copolyester-Based Natural Fibers Polymer Composites: Morphological, Mechanical, and Degradation Behavior. 2020 , 289-319	5
181	Enzymatic extract of <i>Aspergillus fumigatus</i> CCT 7873 for hydrolysis of sugarcane bagasse and generation of cellulose nanocrystals (CNC). 1	6
180	Biopolymer-based nanomaterials for food, nutrition, and healthcare sectors: an overview on their properties, functions, and applications. 2020 , 167-184	5
179	Quantitative and qualitative characterization of dual scale mechanical enhancement on cellulosic and crystalline-structural variation of NaOH treated wheat straw. 2020 , 312, 123535	5
178	Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. <i>Carbohydrate Polymers</i> , 2020 , 246, 116393	10.3 2
177	Fabrication and characterization of a starch-based superabsorbent hydrogel composite reinforced with cellulose nanocrystals from potato peel waste. 2020 , 601, 124962	30
176	Morphological, chemical and thermal analysis of cellulose nanocrystals extracted from bamboo fibre. 2020 , 160, 183-191	40
175	Blended tropical almond residue for fuel production: Characteristics, energy benefits, and emission reduction potential. 2020 , 267, 122013	5
174	Fabrication and characterisation of cellulose nanocrystals from microcrystalline cellulose by esterification and ultrasound treatment. 2018 , 13, 1574-1579	4
173	Experimental and Mathematical Optimization of the Peroxide Delignification of Larch Wood in the Presence of MnSO ₄ Catalyst. 2020 , 12, 265-272	3
172	Production of Micro Crystalline Cellulose from Tapioca Solid Waste: Effect of Acid Concentration on its Physico-chemical Properties. 2020 , 23, 147-151	3
171	Utilization of agro waste-okra and its potentiality. 2017 , 12, 250-256	7
170	Variation of the milling conditions in the obtaining of nanocellulose from the paper sludge. 2019 , 24,	5
169	CHEMICAL TREATMENT AND MODIFICATION OF JUTE FIBER SURFACE. 2017 , 11, 333-343	30
168	The Effects of Unbleached and Bleached Nanocellulose on the Thermal and Flammability of Polypropylene-Reinforced Kenaf Core Hybrid Polymer Bionanocomposites. 2020 , 13,	34

- 167 Agricultural Waste Fibers Towards Sustainability and Advanced Utilization: A Review. **2015**, 15, 42-55 66
- 166 Approaches in biotechnological applications of natural polymers. **2016**, 3, 386-425 29
- 165 Development of Cellulosic Fiber Filter Using Replacement Liquid in Water-Swollen Fiber with Non-Polar Solvent. **2013**, 35, 743-748 1
- 164 Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. **2015**, 40, 373-393 25
- 163 Production, Processes and Modification of Nanocrystalline Cellulose from Agro-Waste: A Review. 12
- 162 Effect of OPEFB-NCC Axial Ratio on Optical Properties of NCC Film. **2014**, 5, 468-473 1
- 161 Synergistic effects of cellulose nanocrystals-organic montmorillonite as hybrid nanofillers for enhancing mechanical, crystallization, and heat-resistant properties of three-dimensional printed poly(lactic acid) nanocomposites. 2
- 160 Production and Surface Modification of Cellulose Bioproducts. **2021**, 13, 3
- 159 Bagasse Sustainable Polymers for Cellulose Hydrogel Sheets Showing Tissue Regeneration. **2016**, 745-764
- 158 Preparation and Characterization of Nanocrystalline Cellulose by Using Sonication Combination with Phosphotungstic Acid. **2017**, 07, 241-248
- 157 Agriculture Waste Composites. **2017**, 241-279
- 156 Methods for the High Resolution Analysis of Glycoconjugates. **2018**, 225-267
- 155 Nanocellulose as Polymer Composite Reinforcement Material. **2019**, 409-427 1
- 154 Tarımsal Atıklardan Selüloz Nanokristallerinin Eldesi, Karakteristik Özellikleri ve Uygulama Alanları-140-148 1
- 153 Current State of the Problem of Probiotic Preparations. **2019**, 81, 114-140
- 152 Potenciais alternativas para reutilização dos resíduos da bananicultura: uma revisão sistemática. **2020**, 55, 268-280
- 151 Comparison of Fibrillation Characteristics of Unbleached Kraft Pulp and Organosolv Pulp by Alkali Kneading Process. **2020**, 52, 50-57 1
- 150 Extraction and Characterization of a Novel Natural Lignocellulosic (Bagasse and Husk) Fibers from Arrowroot (*Maranta Arundinacea*). 1-17 3

149	In-situ thermal aging of biobased and conventional rigid polyurethane foams nanostructured with bacterial nanocellulose. 51824	1
148	Physial Properties of Nanocellulose Extracted from Empty Fruit Bunch. 616, 012033	
147	Functional characteristics of nanocellulose and its potential applications. 2021 ,	0
146	Bionanotechnology in Environment. 2020 , 219-234	
145	Development of Biomass-Derived Cellulose Nanocrystals and its Composites. 2020 , 237-269	
144	Organic nanoparticles from lignocellulosic agricultural residues for plant protection applications. 2021 ,	2
143	Recent Updates on the Conversion of Pineapple Waste (Ananas comosus) to Value-Added Products, Future Perspectives and Challenges. 2021 , 11, 2221	3
142	Characterization of Size and Aggregation for Cellulose Nanocrystal Dispersions Separated by Asymmetrical-Flow Field-Flow Fractionation. 2019 , 27,	2
141	Isolation and Characterization of Nanocrystalline Cellulose Isolated from Pineapple Crown Leaf Fiber Agricultural Wastes Using Acid Hydrolysis. 2021 , 13,	2
140	Thermochemical Conversion of Biomass Waste to Amorphous Phase Carbon for Treating Industrial Waste Water. 2022 , 239-264	
139	Prefeasibility study for the nanocellulose production from biomass in the Colombian context. 1	0
138	A Green Synthesis Strategy of Binuclear Catalyst for the C-C Cross-Coupling Reactions in the Aqueous Medium: Hiyama and Suzuki-Miyaura Reactions as Case Studies.. 2021 , 9, 747016	2
137	Nanocomposite additive of SiO ₂ /TiO ₂ /nanocellulose on waterborne coating formulations for mechanical and aesthetic properties stability on wood. 2021 , 29, 102990	2
136	Cellulose Nanosystems from Synthesis to Applications. 2021 , 1-33	
135	Synthesis, Characterizations, Functionalizations, and Biomedical Applications of Spherical Cellulose Nanoparticles. 2021 , 1-24	
134	Nanocellulose: Recent trends and applications in the food industry. 2022 , 127, 107484	8
133	Insight into the extraction and characterization of cellulose nanocrystals from date pits. 2022 , 15, 103650	4
132	Recent trends in nanotechnology applications of bio-based packaging. 2022 , 7, 100257	15

131	Utilization of nanocellulose fibers, nanocrystalline cellulose and bacterial cellulose in biomedical and pharmaceutical applications. 2022 , 409-470	
130	Industrial Applications of Cellulose Extracted from Agricultural and Food Industry Wastes. 2022 , 417-443	0
129	Cellulose nanocrystals obtained from microcrystalline cellulose by p-toluene sulfonic acid hydrolysis, NaOH and ethylenediamine treatment. 1	0
128	Organic antimicrobial nanomaterials and reducing copper use in sustainable plant protection. 2022 , 179-209	
127	Nanopolysaccharides: fundamentals, isolation, and applications. 2022 , 21-59	
126	Preparation and Characterization of Bio-based Nanocomposites Packaging Films Reinforced with Cellulose Nanofibers From Unripe Banana Peels. 2100283	3
125	Introduction to cellulose-based nanobiosorbents. 2022 , 317-332	
124	Synthesis and properties of cellulose-based nanobiosorbents. 2022 , 275-316	
123	A Comprehensive Review on the Emerging Roles of Nanofillers and Plasticizers towards Sustainable Starch-Based Bioplastic Fabrication.. 2022 , 14,	1
122	Nanocellulose: Chemistry, preparation, and applications in the food industry. 2022 , 155-177	
121	Introduction to nanocellulose production from biological waste. 2022 , 1-37	0
120	Cellulose Nanocrystals: Precursor for Soft Carbon or Hard Carbon?.	
119	Cellulose-based fiber spinning processes using ionic liquids. 2022 , 29, 3079	6
118	Nanocrystalline cellulose extracted from bast fibers: Preparation, characterization, and application.. <i>Carbohydrate Polymers</i> , 2022 , 290, 119462	10.3 4
117	Controlling the in vitro gastrointestinal digestion of emulsified lipids by encapsulation within nanocellulose-fortified alginate beads. 2022 , 32, 100266	1
116	Socially-Directed Development of Materials for Structural Color.. 2022 , e2100939	3
115	Preparation, Characterization, and Surface Modification of Cellulose Nanocrystal from Lignocellulosic Biomass for Immobilized Lipase. 2022 , 10, 33	1
114	Nanocrystalline cellulose isolation via acid hydrolysis from non-woody biomass: Importance of hydrolysis parameters.. <i>Carbohydrate Polymers</i> , 2022 , 286, 119285	10.3 2

113	Emerging technologies for the production of nanocellulose from lignocellulosic biomass.. <i>Carbohydrate Polymers</i> , 2022 , 285, 119258	10.3	8
112	Structural Evolution of Graphitic Carbon Derived from Ionic Liquids-Dissolved Cellulose and Its Application as Lithium-Ion Battery Anodes.. 2021 ,		4
111	Preparation and characterization of polycaprolactone modified with cotton nano cellulose fibers blend film. 2021 ,		
110	Properties of Biocomposite Film Based on Whey Protein Isolate Filled with Nanocrystalline Cellulose from Pineapple Crown Leaf.. 2021 , 13,		1
109	POWDERED CELLULOSIC MATERIALS: OVERVIEW, CLASSIFICATION, CHARACTERISTICS AND FIELDS OF APPLICATION. 2021 , 31-45		
108	Sol-Gel Synthesis of Porous Carbon Materials Using Nanocrystalline Cellulose as a Template. 2022 , 67, 395-400		0
107	Role of nanotechnology for the conversion of lignocellulosic biomass into biopotent energy: A biorefinery approach for waste to value-added products. 2022 , 322, 124236		2
106	Data_Sheet_1.PDF. 2019 ,		
105	Image_1.JPEG. 2018 ,		
104	Image_2.JPEG. 2018 ,		
103	Image_3.JPEG. 2018 ,		
102	Image_4.JPEG. 2018 ,		
101	Image_5.JPEG. 2018 ,		
100	Image_6.JPEG. 2018 ,		
99	Image_7.JPEG. 2018 ,		
98	Image_8.JPEG. 2018 ,		
97	Image_9.JPEG. 2018 ,		
96	Table_1.DOC. 2018 ,		

- 95 Nanoscale cellulose and nanocellulose-based aerogels. **2022**, 229-260 ○
- 94 Composites of cellulose nanocrystals in combination with either cellulose nanofibril or carboxymethylcellulose as functional packaging films.. **2022**, 211, 218-229 ○
- 93 Effect of microcrystalline cellulose under different hydrolysis durations on the stability of thyme oil emulsion.. **2022**,
- 92 Biomaterial and biocompatibility evaluation of tunicate nanocellulose for tissue engineering. **2022**, 137, 212828
- 91 Bioconversion of lignocellulosic biomass into bacterial nanocellulose: Challenges and perspectives. **2022**,
- 90 Influence of cellulose nanocrystal aspect ratio on shear force aligned films: Physical and mechanical properties. **2022**, 3, 100217 1
- 89 Recent advancements, trends, fundamental challenges and opportunities in spray deposited cellulose nanofibril films for packaging applications.. **2022**, 155654 1
- 88 Polyploid Miscanthus Lutarioriparius: A Sustainable and Scalable Biomass Feedstock for Cellulose Nanocrystal Preparation in Biorefinery. **2022**, 12, 1057 ○
- 87 Sustainable Technologies for Recycling Organic Solid Wastes. **2022**, 3-29
- 86 Biopolymers from Industrial Waste. **2022**, 129-149 1
- 85 Human serum albumin adsorption on cellulose nanocrystal: A spectroscopy and molecular dynamics simulation research. **2022**, 597, 153749 ○
- 84 Cellulose Nanocrystals (CNC)-Based Functional Materials for Supercapacitor Applications. **2022**, 12, 1828 ○
- 83 Preparation of Cellulose Nanocrystals from Cotton Gin Motes and Cotton Gin Trash. 15-33
- 82 Functional Bionanomaterials Embedded Devices for Sustainable Energy Storage. 1-23
- 81 Morphological Control of Cellulose Nanocrystals via Sulfuric Acid Hydrolysis based on Sustainability Considerations: An Overview of the Governing Factors and Potential Challenges. **2022**, 108145 1
- 80 Miscanthus and Sorghum as sustainable biomass sources for nanocellulose production. **2022**, 186, 115177 ○
- 79 Cellulose Nanosystems from Synthesis to Applications. **2022**, 145-176
- 78 Synthesis, Characterizations, Functionalizations, and Biomedical Applications of Spherical Cellulose Nanoparticles. **2022**, 177-200

77	Kajian Pustaka Sintesis Nanoselulosa dari Tandan Kosong Kelapa Sawit sebagai Filler Pembuatan Tisu Toilet. 2022 , 15, 51-59	
76	A review on the use of cellulose nanomaterials for wastewater remediation of heavy metal ions.	
75	Isolation and characterization of cellulose nanocrystals from <i>Ensete ventricosum</i> pseudo-stem fiber using acid hydrolysis.	2
74	Chemical Composition and Bioactive Antioxidants Obtained by Microwave-Assisted Extraction of <i>Cyperus esculentus</i> L. By-products: A Valorization Approach. 9,	0
73	Optimization of cellulose extraction process from sugar beet pulp and preparation of its nanofibers with choline chloride-lactic acid deep eutectic solvents.	0
72	Cellulose and its derivatives, coffee grounds, and cross-linked, β -cyclodextrin in the race for the highest sorption capacity of cationic dyes in accordance with the principles of sustainable development. 2022 , 439, 129588	0
71	Advancement in <i>Garbage In Biomaterials Out (GIBO)</i> concept to develop biomaterials from agricultural waste for tissue engineering and biomedical applications.	0
70	Optimization of Biocomposite Film Based on Whey Protein Isolate and Nanocrystalline Cellulose from Pineapple Crown Leaf Using Response Surface Methodology. 2022 , 14, 3006	2
69	Electrochromic Displays Screen Printed on Transparent Nanocellulose-Based Substrates. 2200012	0
68	Production and characteristics of nanocellulose obtained with using of ionic liquid and ultrasonication. 2022 , 24,	
67	Enzyme activity inhibition properties of new cellulose nanocrystals from <i>Citrus medica</i> L. pericarp: A perspective of cholesterol lowering.	2
66	Impact of species-based wood feedstock variability on physicochemical properties of cellulose nanocrystals.	0
65	Processing of nanocellulose sheet for capturing fine particulate matter. 2022 ,	
64	Technological limitations in obtaining and using cellulose biocomposites. 10,	0
63	Influence of native cellulose, microcrystalline cellulose and soluble cellodextrin on inhibition of starch digestibility. 2022 , 219, 491-499	0
62	Ultrasonic cavitation: An effective cleaner and greener intensification technology in the extraction and surface modification of nanocellulose. 2022 , 90, 106176	2
61	Synthesis and Characterization of Nanocellulose from Lignocellulosic Agricultural Biomass by Acid Hydrolysis. 2022 , 34, 2639-2645	0
60	Non-catalyzed formic acid-based process for preparing thermally stable spherical cellulose nanocrystals from mango seed husk.	0

59	Isolation and Characterization of Cellulose Nanocrystals from Waste Cotton Fibers Using Sulfuric Acid Hydrolysis. 2200159	0
58	Mechanistic and recent updates in nano-bioremediation for developing green technology to alleviate agricultural contaminants.	1
57	Characterization of Cellulose Nanocrystalline (CNCs) Derived from Microcrystalline Cellulose (MCC) Synthesized Using Acid Hydrolysis Method.	0
56	Cellulose nanofibers/polyvinyl alcohol blends as an efficient coating to improve the hydrophobic and oleophobic properties of paper. 2022, 12,	0
55	Functionalized Cellulose Sheets with Fertilizers Applied as Multimodal Agricultural Supports for Seedling Cultivation.	0
54	Recent trends using natural polymeric nanofibers as supports for enzyme immobilization and catalysis.	1
53	Phenol formaldehyde resin modified by cellulose and lignin nanomaterials: Review and recent progress. 2022,	1
52	Study of Progress on Nanocrystalline Cellulose and Natural Fiber Reinforcement Biocomposites. 2022, 2022, 1-16	1
51	Magnetic cellulose nanocrystals as efficient support for indium(III) in the synthesis of tetrazoles and phthalazines. 2022, 655, 130154	0
50	Utilization of Biowastes in Green Chemistry. 2022, 399-425	0
49	Corn cob waste as a potential filler in biocomposites: A decision towards sustainability. 2022, 9, 100317	0
48	Immobilized Nanomaterials for Environmental Applications. 2022, 27, 6659	0
47	Extraction of cellulose nanocrystals with redispersion ability via deep eutectic solvents enhanced with nickel chloride hydrate.	0
46	Characterization of Cellulose Nanocrystals (CNCs) Derived from Microcrystalline Cellulose (MCC) Synthesized Using Acid Hydrolysis Method..	0
45	Allomorphic regulation of bamboo cellulose by mild alkaline peroxide for holocellulose nanofibrils production. 2022,	0
44	Effect of ionic liquid on the enzymatic synthesis of cello-oligosaccharides and their assembly into cellulose materials. 2022, 120302	0
43	Optimization of Cellulose Nanocrystals from Ensete Ventricosum Pseudo Stem Fiber Using Response Surface Methodology.	0
42	Nanocellulose Based Green Nanocomposites: Characteristics and Application in Primary Food Packaging. 1-32	0

41	Biomedical Applications of Biocomposites Derived From Cellulose. 2023 , 251-274	0
40	Cellulose nanostructures extracted from coir fibers. 2022 , 221-255	0
39	New method for graphitizing polyurethane (PU) prepolymers over cellulose fiber surface and physical properties assessment on cementitious composites. 2023 , 364, 129935	0
38	Enzymatic synthesis of cellulose nanocrystals from lemongrass and its application in improving anti-cancer drug release, uptake and efficacy. 2023 , 192, 115933	1
37	Nanomaterials as a cutting edge in the removal of toxic contaminants from water. 2023 , 295, 127092	0
36	Regulation of hydrogen bonding network between cellulose nanofibers by rare earth ion Y ³⁺ . 2023 , 302, 120421	0
35	Waste valorization by nanotechnology approaches for sustainable crop protection: a mini review. 2022 , 1265, 012009	1
34	A comparative review of the effects of different fibre concentrations on arrowroot fibre and other fibre-reinforced composite films. 2022 ,	0
33	Crosslinked poly (vinyl alcohol) composite reinforced with tunicate, wood, and hybrid cellulose nanocrystals: Comparative physicochemical, thermal, and mechanical properties. 2022 ,	0
32	Evaluating feasibility of biosorption technique for heavy metals removal: limitations and future perspective. 1-25	0
31	Nanocellulose: A Fundamental Material for Science and Technology Applications. 2022 , 27, 8032	1
30	Recent Progress on Tailoring the Biomass-Derived Cellulose Hybrid Composite Photocatalysts. 2022 , 14, 5244	0
29	Morphological, Spectroscopic and Thermal Analysis of Cellulose Nanocrystals Extracted from Waste Jute Fiber by Acid Hydrolysis.	0
28	Bleaching-free, lignin-tolerant, high-yield production of nanocrystalline cellulose from lignocellulosic biomass. 2022 , 105771	0
27	Research progress on chemical modification of waste biomass cellulose to prepare heavy metal adsorbents.	0
26	High density cellulose nanofibrils assembly leads to upgraded enzymatic and chemical catalysis of fermentable sugars, cellulose nanocrystals and cellulases production by precisely engineering cellulose synthases complexes.	0
25	Fabrication of microwave silicified oxidized cellulose nanocrystals (SOCN) from Agro waste for sustainable multifunctional wool fabric coloration. 2023 , 386, 135800	0
24	Opportunities to Production of Biofuel from Grains and to Improve the Factors Increasing the Yield of Bioethanol in a Short Time. 2022 , 2, 253-272	0

23	Physical, Chemical, and Mechanical Characterization of Natural Bark Fibers (NBFs) Reinforced Polymer Composites: A Bibliographic Review. 2023 , 11, 13	0
22	Green strategies for extraction of nanocellulose from agricultural wastes: Current trends and future perspectives. 2023 , 269-288	0
21	Tailoring Heat Transfer and Bactericidal Response in Multifunctional Cotton Composites. 2023 , 13, 463	0
20	Nanocellulose from agro-waste: a comprehensive review of extraction methods and applications.	1
19	Biodegradable Hybrid Polymer Film for Packaging: A Review. 2023 , 20,	2
18	Cellulose-based composite materials for dye wastewater treatment. 2023 , 267-282	0
17	Recent advances of nanocellulose as biobased adsorbent for heavy metal ions removal: A sustainable approach integrating with waste management. 2023 , 20, 100791	0
16	High yield production of nanocrystalline cellulose from corn cob through a chemical-mechanical treatment under mild conditions. 2023 , 240, 124327	0
15	Engineering nano-cellulose bio-composites to improve protein delivery for oral vaccination. 2023 , 149, 213400	0
14	An efficient approach to extract nanocrystalline cellulose from sisal fibers: Structural, morphological, thermal and antibacterial analysis. 2023 , 233, 123496	0
13	Complexation between rice starch and cellulose nanocrystal from black tea residues: Gelatinization properties and digestibility in vitro. 2023 , 234, 123695	0
12	Sustainable Protocols for Cellulose Nanocrystals Synthesis from Tomato Waste and Their Antimicrobial Properties against <i>Pseudomonas syringae</i> pv. tomato. 2023 , 12, 939	0
11	Recent Developments in Chemical Derivatization of Microcrystalline Cellulose (MCC): Pre-Treatments, Functionalization, and Applications. 2023 , 28, 2009	0
10	Electrochemical Characterization of Charge Storage at Anodes for Sodium-Ion Batteries Based on Corncob Waste-Derived Hard Carbon and Binder. 2023 , 10,	0
9	Rheological and filtration properties of water-based drilling fluids as influenced by cellulose nanomaterials: different aspect ratios and modified groups. 2023 , 30, 3667-3683	0
8	Isolation and Characterization of Fractionated Cellulose from <i>Madhuca indica</i> . 2023 , 8,	0
7	Morphological, Spectroscopic and Thermal Analysis of Cellulose Nanocrystals Extracted from Waste Jute Fiber by Acid Hydrolysis. 2023 , 15, 1530	0
6	Development of nanocellulose fiber reinforced starch biopolymer composites: a review. 2023 ,	0

- 5 Carbon nanotubes and silver nanoparticles modification of PVDF membranes for improved seawater desalination in direct contact membrane distillation. 2, ○
- 4 Wood Biorefineries. **2023**, 1713-1751 ○
- 3 Optimization of delignification and cellulose isolation process from Natural cotton pods and preparation of its nanofibers with choline chloride/lactic acid eutectic solvents. ○
- 2 An approach to enhanced redispersibility of cellulose nanocrystals via freeze-drying their Pickering emulsions. **2023**, 33, 272-274 ○
- 1 Cellulose nanocrystalline from biomass wastes: An overview of extraction, functionalization and applications in drug delivery. **2023**, 124557 ○