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Cellulose crystallinity index: measurement techniques and their impact on interpreting cellulase performance

DOI: 10.1186/1754-6834-3-10 Biotechnology for Biofuels, 2010, 3, 10.

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2066	Measuring the crystallinity index of cellulose by solid state 13C nuclear magnetic resonance. <b>2009</b> , 16, 641-647		174
2065	Practical screening of purified cellobiohydrolases and endoglucanases with Etellulose and specification of hydrodynamics. <i>Biotechnology for Biofuels</i> , <b>2010</b> , 3, 18	7.8	44
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1936	Ethanol production potential of sweet sorghum assessed using forage fiber analysis procedures. <b>2013</b> , 5, 358-366	19
1935	Optimization of hydrothermal pretreatment of lignocellulosic biomass in the bioethanol production process. <b>2013</b> , 6, 110-22	231
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1855	A pyranose dehydrogenase-based biosensor for kinetic analysis of enzymatic hydrolysis of cellulose by cellulases. <b>2014</b> , 58-59, 68-74		18	
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1695	Hydrogels Nanocomposites Based on Crystals, Whiskers and Fibrils Derived from Biopolymers. <b>2015</b> , 43-71	11
1694	Pretreatment of miscanthus using 1,3-dimethyl-imidazolium methyl phosphonate (DMIMMPh) ionic liquid for glucose recovery and ethanol production. <b>2015</b> , 5, 61455-61464	19
1693	The effect of chronic gamma ray irradiation on lignocellulose of Brachypodium distachyon. <b>2015</b> , 22, 2419-2430	8
1692	Unique antioxidant and sulfur corrosion retardant properties of transformer oil blended with turmerone extract. <b>2015</b> , 22, 2798-2808	6
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1561	Bench scale dilute acid pretreatment optimization for producing fermentable sugars from cotton stalk and physicochemical characterization. <b>2016</b> , 83, 104-112	28
1560	Comparison of sample crystallinity determination methods by X-ray diffraction for challenging cellulose I materials. <b>2016</b> , 23, 1073-1086	153
1559	Optimization of bacterial cellulose production by Gluconacetobacter xylinus using carob and haricot bean. <b>2016</b> , 90, 2-10	55
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1549	Morphological, physical, mechanical, chemical and thermal characterization of sustainable Indian Areca fruit husk fibers (Areca Catechu L.) as potential alternate for hazardous synthetic fibers. <b>2016</b> , 13, 156-165	95
1548	Impact of Ball-Milling Pretreatment on Pyrolysis Behavior and Kinetics of Crystalline Cellulose. <b>2016</b> , 7, 571-581	44
1547	Site-Selective Modification of Cellulose Nanocrystals with Isophorone Diisocyanate and Formation of Polyurethane-CNC Composites. <b>2016</b> , 8, 1458-67	90
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1518	Composite fibers prepared from multi-walled carbon nanotubes/cellulose dispersed/dissolved in ammonium/dimethyl sulfoxide mixed solvent. <b>2017</b> , 7, 2186-2192	17
1517	Xylo-sugars production by microwave-induced hydrothermal treatment of corncob: Trace sodium hydroxide addition for suppression of side effects. <b>2017</b> , 101, 36-45	20
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1513	Preparation of nanocrystalline cellulose-montmorillonite composite via thermal radiation for liquid-phase adsorption. <b>2017</b> , 233, 29-37	14
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1340	Extraction of cellulose nanofibrils from amylase-treated cassava bagasse using high-pressure homogenization. <b>2018</b> , 25, 1757-1768	18
1339	Cellulose fiber size defines efficiency of enzymatic hydrolysis and impacts degree of synergy between endo- and exoglucanases. <b>2018</b> , 25, 1865-1881	7
1338	Effects of Natural Additives on the Properties of Sawdust Fuel Pellets. <b>2018</b> , 32, 1863-1873	18
1337	Preparation of cellulose nanocrystals from empty fruit bunch of palm oil by using phosphotungstic acid. <b>2018</b> , 105, 012063	10
1336	Structural Characterization of Loblolly Pine Derived Biochar by X-ray Diffraction and Electron Energy Loss Spectroscopy. <b>2018</b> , 6, 2621-2629	39
1335	Comparison and validation of Fourier transform infrared spectroscopic methods for monitoring secondary cell wall cellulose from cotton fibers. <b>2018</b> , 25, 49-64	17
1334	Nanocrystals of cellulose allomorphs have different adsorption of cellulase and subsequent degradation. <b>2018</b> , 112, 541-549	28
1333	Urethane-Linked Imidazole-Cellulose Microcrystals: Synthesis and Their Dual Functions in Adsorption and Naked Eye Sensing with Colorimetric Enhancement of Metal Ions. <b>2018</b> , 6, 3686-3695	14
1332	Advances in thermosensitive polymer-grafted platforms for biomedical applications. <b>2018</b> , 92, 1016-1030	41
1331	Chemical and structural factors influencing enzymatic saccharification of wood from aspen, birch and spruce. <b>2018</b> , 109, 125-134	39
1330	Nanocellulose films with combined cellulose nanofibers and nanocrystals: tailored thermal, optical and mechanical properties. <b>2018</b> , 25, 1103-1115	57

1329	Cationic fibers from crop residues: Making waste more appealing for papermaking. <b>2018</b> , 174, 1503-1512	4
1328	Reactive dyeing of ramie yarn washed by liquid ammonia. <b>2018</b> , 25, 1463-1481	4
1327	Effect of pretreatments on isolation of bioactive polysaccharides from spent coffee grounds using subcritical water. <b>2018</b> , 109, 711-719	35
1326	Comparative study of cellulosic components isolated from different Eucalyptus species. <b>2018</b> , 25, 1011-1029	50
1325	Structural and compositional changes in sugarcane bagasse subjected to hydrothermal and organosolv pretreatments and their impacts on enzymatic hydrolysis. <b>2018</b> , 113, 64-74	63
1324	Structural and optical properties improvements of PVP/gelatin blends induced by neutron irradiation. <b>2018</b> , 146, 47-54	3
1323	Microwave-assisted ionic liquid-mediated rapid catalytic conversion of non-edible lignocellulosic Sunn hemp fibres to biofuels. <b>2018</b> , 253, 85-93	23
1322	Jute cellulose nano-fibrils/hydroxypropylmethylcellulose nanocomposite: A novel material with potential for application in packaging and transdermal drug delivery system. <b>2018</b> , 112, 633-643	58
1321	Characterization of Lignin Streams during Bionic Liquid-Based Pretreatment from Grass, Hardwood, and Softwood. <b>2018</b> , 6, 3079-3090	56
1320	Deterioration effects of wet environments and brown rot fungus Coniophora puteana on pine wood in the archaeological site of Biskupin (Poland). <b>2018</b> , 138, 132-146	17
1319	Structure of native cellulose microfibrils, the starting point for nanocellulose manufacture. <b>2018</b> , 376,	62
1318	Reuse of Selected Lignocellulosic and Processed Biomasses as Sustainable Sources for the Fabrication of Nanocellulose via Ni(II)-Catalyzed Hydrolysis Approach: A Comparative Study. <b>2018</b> , 26, 2825-2844	13
1317	Production of cellulose nanoparticles from blue agave waste treated with environmentally friendly processes. <b>2018</b> , 183, 294-302	51
1316	The effect of organosolv pretreatment on optimization of hydrolysis process to produce the reducing sugar. <b>2018</b> , 154, 01022	4
1315	Chemical composition of processed bamboo for structural applications. <b>2018</b> , 25, 3255-3266	34
1314	The Effect of Alkaline Concentration on Coconut Husk Crystallinity and the Yield of Sugars Released. <b>2018</b> , 306, 012046	1
1313	A design optimization study on synthesized nanocrystalline cellulose, evaluation and surface modification as a potential biomaterial for prospective biomedical applications. <b>2018</b> , 114, 536-546	25
1312	Isolation of oxidized nanocellulose from rice straw using the ammonium persulfate method. <b>2018</b> , 25, 2143-2149	25

1311	Covalent Tethering of Temperature Responsive pNIPAm onto TEMPO-Oxidized Cellulose Nanofibrils via Three-Component Passerini Reaction. <b>2018</b> , 7, 412-418	26
1310	On the Yield of Levoglucosan from Cellulose Pyrolysis. <b>2018</b> , 6, 7017-7025	56
1309	Phosphorus removal from eutrophic water using modified biochar. <b>2018</b> , 633, 825-835	64
1308	Cellulose and chitin composite materials from an ionic liquid and a green co-solvent. <b>2018</b> , 192, 159-165	24
1307	Mild chemical pretreatments are sufficient for bioethanol production in transgenic rice straws overproducing glucosidase. <b>2018</b> , 20, 2047-2056	54
1306	Thermal stability of cellulose nanocrystals prepared by succinic anhydride assisted hydrolysis. <b>2018</b> , 663, 145-156	20
1305	XRD and solid state C-NMR evaluation of the crystallinity enhancement of C-labeled bacterial cellulose biosynthesized by Komagataeibacter xylinus under different stimuli: A comparative strategy of analyses. <b>2018</b> , 461, 51-59	26
1304	2D and 3D Spectrum Graphics of the Chemical-Morphological Domains of Complex Biomass by Low Field Proton NMR Energy Relaxation Signal Analysis. <b>2018</b> , 32, 5090-5102	15
1303	Elucidating the Interactive Impacts of Substrate-Related Properties on Lignocellulosic Biomass Digestibility: A Sequential Analysis. <b>2018</b> , 6, 6783-6791	13
1302	Physical Properties, Microstructure, Intermolecular Forces, and Oxidation Stability of Soybean Oil Oleogels Structured by Different Cellulose Ethers. <b>2018</b> , 120, 1700287	23
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1297	Co-production of oligosaccharides and fermentable sugar from wheat straw by hydrothermal pretreatment combined with alkaline ethanol extraction. <b>2018</b> , 111, 78-85	55
1296	Post-sulfonation of cellulose nanofibrils with a one-step reaction to improve dispersibility. <b>2018</b> , 181, 247-255	32
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1294	Effect of Extraction Methods on the Properties of Althea Officinalis L. Fibers. <b>2018</b> , 15, 325-336	16

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1292	Sulfates of Sorghum vinegar residue waste as potential catalysts. <b>2018</b> , 7, 334-343	1
1291	Combined approaches to obtain cellulose nanocrystals, nanofibrils and fermentable sugars from elephant grass. <b>2018</b> , 180, 38-45	30
1290	Characterization and mechanical properties of ultraviolet stimuli-responsive functionalized cellulose nanocrystal alginate composites. <b>2018</b> , 135, 45857	10
1289	Surface functionalization of cellulose with poly(3-hexylthiophene) via novel oxidative polymerization. <b>2018</b> , 179, 221-227	21
1288	Combined effect of cellulose nanocrystals and poly(butylene succinate) on poly(lactic acid) crystallization: The role of interfacial affinity. <b>2018</b> , 179, 79-85	21
1287	New spherical nanocellulose and thiol-based adsorbent for rapid and selective removal of mercuric ions. <b>2018</b> , 331, 587-596	8o
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1285	Fabrication and characterization of chitin nanofibers through esterification and ultrasound treatment. <b>2018</b> , 180, 81-87	39
1284	Production of cellulose carbamate using urea-based deep eutectic solvents. <b>2018</b> , 25, 195-204	32
1283	Structural features influential to enzymatic hydrolysis of cellulose-solvent-based pretreated pinewood and elmwood for ethanol production. <b>2018</b> , 41, 249-264	14
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1257	Achieving Enhanced Interfacial Adhesion and Dispersion in Cellulose Nanocomposites via Amorphous Interfaces. <b>2018</b> , 51, 10304-10311	39
1256	Chemical Composition and Characterization of Cotton Fibers. <b>2018</b> , 75-94	4
1255	Controlled Depolymerization of Cellulose Fibres Isolated from Lignocellulosic Biomass Wastes. <b>2018</b> , 2018, 1-11	2
1254	Novel Bionanocellulose/ECarrageenan Composites for Tissue Engineering. 2018, 8, 1352	11
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1208	Mechanical fragmentation of wheat and rice straw at different scales: Energy requirement in relation to microstructure properties and enzymatic hydrolysis. <b>2018</b> , 171, 38-47	10
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1202	Influence of process variables on physical characteristics of spray freeze dried cellulose nanocrystals. <b>2018</b> , 25, 5711-5730	9
1201	Intensification of bioethanol production by using Tween 80 to enhance dilute acid pretreatment and enzymatic saccharification of corncob. <b>2018</b> , 124, 166-176	16
1200	In vitro performances and cellular uptake of clarithromycin nanocrystals produced by media milling technique. <b>2018</b> , 338, 471-480	8
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1180	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. <b>2018</b> , 8, 374	23
1179	Investigating acid/peroxide-alkali pretreatment of sugarcane bagasse to isolate high accessibility cellulose applied in acetylation reactions. <b>2018</b> , 25, 5669-5685	8
1178	Wettability, surface free energy and cellulose crystallinity for pine wood (Pinus sp.) modified with chili pepper extracts as natural preservatives. <b>2018</b> , 25, 6151-6160	8
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1173	A Novel Study on Thermal Stability of Camphor Soot Reinforced Coir Fibers. 2018, 19, 1567-1575	6
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1132	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. <b>2019</b> , 20, 3147-3160	18

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407	Alkaline Nanoparticles for the Deacidification and pH Control of Books and Manuscripts. <b>2016</b> , 253-281	3
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404	Processing Vegetable Waste #Đifferent Origin. <b>2018</b> , 14, 48-61	O
403	REGULARITIES OF THE PROCESS OF PINE WOOD PEROXIDE DELIGNIFICATION IN THE PRESENCE OF SULFURIC ACID CATALYST. <b>2018</b> , 63-71	3
402	Fuel Ethanol Production From Lignocellulosic Biomass. <b>2019</b> , 49-65	3
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398	Determination of crystallinity of Chinese handmade papers by means of X-ray diffraction. <b>2020</b> , 41, 69-86	O
397	Stretching-Induced Thermal Conductivity Change in Shape-Memory Polymer Composites. <b>2020</b> , 142,	
396	Influence of Water Removal Techniques on the Main Characteristics of Nanofibrillated Cellulose Obtained from Different Lignocellulosic Materials. 1-16	
395	Synergetic effect of carbon dot at cellulose nanofiber for sustainable metal-free photocatalyst. <b>2021</b> , 28, 11261	1
394	Structural and Thermal Properties of Cellulose Microfiber Isolated from Typha Australis by Sequential Alkali-Oxidative Treatment. 1-13	O

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391	Evaluation of Methods for the Analysis of Untreated and Processed Lignocellulosic Biomasses. <b>2020</b> , 101-117	
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387	Enhancement of methane production by anaerobic digestion of corn straw with hydrogen-nanobubble water. <b>2022</b> , 344, 126220	4
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384	Biotechnological Aspects of Microbial Pretreatment of Lignocellulosic Biomass. <b>2020</b> , 121-150	2
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374	Oxidation treatment on wood cell walls affects gas permeability and sound absorption capacity. <b>2022</b> , 276, 118874	1
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365	Functionalized Nanocellulose Drives Neural Stem Cells toward Neuronal Differentiation. <b>2021</b> , 12,	1
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359	Recent review on synthesis, evaluation, and SWOT analysis of nanostructured cellulose in construction applications. <b>2021</b> , 46, 103747	7
358	Isolation of cellulose fibers from wetland reed grass through an integrated subcritical water hydrolysis-pulping-bleaching process. <b>2021</b> , 311, 122618	4

357	Facile Post-Carboxymethylation of Cellulose Nanofiber Surfaces for Enhanced Water Dispersibility <b>2021</b> , 6, 34107-34114	2
356	Choosing the right strategy: cryogrinding vs. ball milling Leomparing apples to apples. 2021, 23, 9646-9657	2
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354	Removal of both anionic and cationic dyes from wastewater using pH-responsive adsorbents of L-lysine molecular-grafted cellulose porous foams <b>2021</b> , 426, 128121	O
353	Effectiveness of bio-dispersant in homogenizing hydroxyapatite for proliferation and differentiation of osteoblast <b>2021</b> , 611, 491-502	1
352	Utilization of Saline Solutions in the Modification of Lignocellulose from Champaca Wood. <b>2018</b> , 46, 368-379	2
351	Efficient Saccharification of Wheat Straw Pretreated by Solid Particle-Assisted Ball Milling with Waste Washing Liquor Recycling.	
350	Nanocelluloses Reinforced Bio-Waterborne Polyurethane. <b>2021</b> , 13, 2853	4
349	Comprehensive approach of methods for microstructural analysis and analytical tools in lignocellulosic biomass assessment - A Review <b>2021</b> , 126627	1
348	Bioconversion of Agricultural Residue into Biofuel and High-Value Biochemicals: Recent Advancement. <b>2022</b> , 233-268	1
347	Development of Cellulose Nanofibril/Casein-Based 3D Composite Hemostasis Scaffold for Potential Wound-Healing Application <b>2022</b> ,	4
346	Improvement of prebiotic activity of guava purë by-products through cellulase treatment. <b>2022</b> , 36, 38-57	Ο
345	Environmentally Significant Cellulose Fiber Reinforced Polymer Matrix Composites. <b>2022</b> , 93-132	
344	Influence of drying method on the crystal structure and thermal property of oil palm frond juice-based bacterial cellulose. <b>2022</b> , 57, 1462-1473	O
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339	Mechanochemical Pretreatment for Waste-Free Conversion of Bamboo to Simple Sugars: Utilization of Available Resources for Developing Economies. 2100286	1
338	Cellulose nanocrystals from native and mercerized cotton. <b>2022</b> , 29, 1567	1
337	Intensification of alkaline delignification of sugarcane bagasse using ultrasound assisted approach <b>2021</b> , 82, 105870	2
336	Recent Progress in Production Methods for Cellulose Nanocrystals: Leading to More Sustainable Processes. 2100100	O
335	Cavitation Fibrillation of Cellulose Fiber 2022,	1
334	Novel functionalized cellulose derivatives fabricated with Cu nanoparticles: synthesis, characterization and degradation of organic pollutants. <b>2022</b> , 29, 1911	O
333	An insight into microscopy and analytical techniques for morphological, structural, chemical, and thermal characterization of cellulose <b>2022</b> ,	1
332	Crystallinity of Nanocellulose and its Application in Polymer Composites: A Short Review. 908, 74-79	
331	Rational Development of a Carrier-Free Dry Powder Inhalation Formulation for Respiratory Viral Infections via Quality by Design: A Drug-Drug Cocrystal of Favipiravir and Theophylline <b>2022</b> , 14,	0
330	Impact of surfactant-aided subcritical water pretreatment process conditions on the reducing sugar production from oil palm empty fruit bunch. <b>2022</b> , 963, 012005	
329	High-pressure autohydrolysis process of wheat straw for cellulose recovery and subsequent use in PBAT composites preparation. <b>2022</b> , 39, 102282	2
328	Solvents and ions for pretreatment in lignocellulosic biorefineries. <b>2022</b> , 113, 241-257	O
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326	Study of dielectric properties of electron beam irradiated luffa fiber/PLA composites. 1-14	
325	Evaluation of biomass-derived solvents and protic ionic liquids as lignin-selective pretreatment agents for poplar fractionation. 1-13	1
324	Evaluation of detoxified sugarcane bagasse hydrolysate by atmospheric cold plasma for bacterial cellulose production <b>2022</b> , 204, 136-143	2
323	Mechanistic investigation of the effect of endoglucanases related to pulp refining.	3
322	Surface modification of the cellulose nanocrystals through vinyl silane grafting <b>2022</b> , 200, 397-408	1

321	Efficient saccharification of wheat straw pretreated by solid particle-assisted ball milling with waste washing liquor recycling <b>2022</b> , 347, 126721	1
320	Mesoporous xerogel cellulose composites from biorenewable natural cotton fibers <b>2022</b> , 282, 119040	2
319	pH-responsive ampholytic regenerated cellulose hydrogel integrated with carrageenan and chitosan. <b>2022</b> , 178, 114588	1
318	Toward continuous high-performance bacterial cellulose macrofibers by implementing grading-stretching in spinning <b>2022</b> , 282, 119133	1
317	A highly sensitive and biodegradable NO2 sensor made with CNTs and Ni(OH)2/NiO:Yb microparticles. <b>2022</b> , 903, 163896	O
316	Nanocellulose-Based Biomedical Scaffolds in Future Bioeconomy: A Techno-Legal Assessment of the State-of-the-Art <b>2021</b> , 9, 789603	O
315	Study on characterization of water hyacinth (Eichhornia crassipes) novel natural fiber as reinforcement with epoxy polymer matrix material for lightweight applications. 152808372110672	
314	Preparation of cationic viscose and its salt-free dyeing using reactive dye.	O
313	Mechanochemical Transformations of Biomass into Functional Materials 2022,	1
312	Sulfated Cellulose Nanofibrils from Chlorosulfonic Acid Treatment and Their Wet Spinning into High-Strength Fibers <b>2022</b> ,	3
311	Non-enzymatic modification of the crystalline structure and chemistry of Masson pine in brown-rot decay <b>2022</b> , 286, 119242	2
310	Alpha-, Beta- and Gamma-Cellulose Quantification and Two-Stage Concentrated-Dilute Acid Lignin Recovery from Three Rice Husks: Lignin Characterization and Depolymerization. 1	O
309	Elucidating the bioenergy potential of raw, hydrothermally carbonized and torrefied waste Arundo donax biomass in terms of physicochemical characterization, kinetic and thermodynamic parameters. <b>2022</b> , 187, 844-856	0
308	A Comprehensive Review on Natural Fibers: Technological and Socio-Economical Aspects <b>2021</b> , 13,	7
307	A Clean and Effective Extrusion Corncob Pretreatment for Enhancement of High Solids Loading Enzymatic Hydrolysis for Sugar Productio N.	
306	Materials Properties: Physical Characteristics. <b>2022</b> , 59-95	
305	Hemp-Based Materials for Applications in Wastewater Treatment by Biosorption-Oriented Processes: A Review. <b>2022</b> , 239-295	1
304	Preparation and characterization of silk fibroin-polyvinyl alcohol (PVA) blend films for food packaging materials. <b>2022</b> , 55, 194-200	1

303	Hydrothermal pretreatment of biomass-waste-garlic skins in the cellulose nanofiber production process. <b>2022</b> , 29, 2333-2349	O
302	Tracing characteristic variations of cellulose nanocrystals during the post-synthesis purification process. 1	
301	Surface-Functionalized Cellulose Nanocrystals as Nanofillers for Crosslinking Processes: Implications for Thermosetting Resins. <b>2022</b> , 5, 1891-1901	1
300	Direct synthesis of a robust cellulosic composite from cellulose acetate and a nanofibrillated bacterial cellulose sol.	1
299	"Attacking-Attacking" Anti-biofouling Strategy Enabled by Cellulose Nanocrystals-Silver Materials <b>2022</b> ,	3
298	Production of Exopolysaccharides by Cultivation of Halotolerant Bacillus atrophaeus BU4 in Glucose- and Xylose-Based Synthetic Media and in Hydrolysates of Quinoa Stalks. <b>2022</b> , 8, 79	
297	Soybean hull pectin and nanocellulose: tack properties in aqueous pMDI dispersions. <b>2022</b> , 57, 5022-5035	1
296	Structural Evolution of Cellulose from Bamboo Fibers and Parenchyma Cells during Ionic Liquid Pretreatment for Enhanced Hydrolysis <b>2022</b> ,	2
295	Alkali-activation of cellulose nanofibrils to facilitate surface chemical modification under aqueous conditions. <b>2022</b> , 68,	0
294	Physico-Chemical and Thermomechanical Analysis and ?Characterization of ?a Thermoplastic Composite Material Reinforced by Washingtonia Filifera Novel Vegetable Fibers. 59, 43-55	O
293	A novel accessory protein ArCel5 from cellulose-gelatinizing fungus Arthrobotrys sp. CX1. <b>2022</b> , 9,	0
292	Nanocellulose for Sustainable Water Purification 2022,	6
291	CRISPR/Cas9-mediated P-CR Domain-specific Engineering of CESA4 Heterodimerization Capacity Alters Cell Wall Architecture and Improves Saccharification Efficiency in Poplar <b>2022</b> ,	1
<b>2</b> 90	Circular Hazelnut Protection by Lignocellulosic Waste Valorization for Nanopesticides Development. <b>2022</b> , 12, 2604	3
289	Fractionation of birch wood biomass into valuable chemicals by the extraction and catalytic processes. 1	0
288	Solid State NMR a Powerful Technique for Investigating Sustainable/Renewable Cellulose-Based Materials <b>2022</b> , 14,	2
287	Cellulose Nanocrystals from Sugar Cane Bagasse Using Organic and/or Inorganic Acids: Techno-Economic Analysis and Life Cycle Assessment.	4
286	Nanocellulose by Ammonium Persulfate Oxidation: An Alternative to TEMPO-Mediated Oxidation. <b>2022</b> , 10, 3882-3891	1

285	Stretch-Induced Crystallization of Cellulose Spun from Ionic Liquid Solution 2022,	1
284	A Wearable Strain Sensor Based on Electroconductive Hydrogel Composites for Human Motion Detection. 2100973	O
283	Pretreatment enhanced structural disruption, enzymatic hydrolysis, fermentative hydrogen production from rice straw. <b>2022</b> , 47, 11778-11786	2
282	Comparative Study on the Pretreatment of Aspen and Maple With 1-Ethyl-3-methylimidazolium Acetate and Cholinium Lysinate. <b>2022</b> , 10,	0
281	Effects of multiscale-mechanical fragmentation on techno-functional properties of industrial tobacco waste. <b>2022</b> , 117327	0
<b>2</b> 80	Effect of Ball-Milling Pretreatment of Cellulose on Its Photoreforming for H Production <b>2022</b> , 10, 4862-4871	4
279	Ammonium persulfate treatment on carbohydrate polymers and lignin of wood improved sound absorption capacity <b>2022</b> ,	О
278	Structure-property-degradability relationships of varisized lignocellulosic biomass induced by ball milling on enzymatic hydrolysis and alcoholysis <b>2022</b> , 15, 36	1
277	Thermal and mechanical characterization of adobes bio-sourced with Pennisetum setaceum fibers and an application for modern buildings. <b>2022</b> , 326, 126809	4
276	Radiation-induced graft polymerization of N-isopropyl acrylamide onto microcrystalline cellulose: Assessing the efficiency of the peroxidation method. <b>2022</b> , 194, 110038	O
275	Silicone polyether surfactant enhances bacterial cellulose synthesis and water holding capacity <b>2022</b> , 208, 642-653	1
274	Comparative study on the hydrogenolysis performance of solid residues from different bamboo pretreatments <b>2022</b> , 352, 127095	0
273	Cellulose nanostructures obtained using enzymatic cocktails with different compositions <b>2022</b> , 207, 299-307	1
272	When the order matters: Impacts of lignin removal and xylan conformation on the physical structure and enzymatic hydrolysis of sugarcane bagasse. <b>2022</b> , 180, 114708	O
271	Cellulose electrospinning from ionic liquids: The effects of ionic liquid removal on the fiber morphology <b>2022</b> , 285, 119260	1
270	Cellulose nanofibers prepared from pulp through ultrasound treatment followed semi-dry esterification and their application for transparent and anti-fingerprint coating. <b>2022</b> , 167, 106844	
269	Pretreatment methods to enhance solubilization and anaerobic biodegradability of lignocellulosic biomass (wheat straw): Progress and challenges. <b>2022</b> , 319, 123726	3
268	Cryogenic grinding of cotton fiber cellulose: The effect on physicochemical properties <b>2022</b> , 289, 119408	О

267	Enhancing Persistent Luminescence of Cellulose by Dehydration for Label-Free Time-Resolved Imaging. <b>2021</b> , 9, 17420-17426	1
266	Dynamics of Water and Other Molecular Liquids Confined Within Voids and on Surface of Lignin Aggregates in Aging Bio Crude Oils <b>2021</b> , 9, 753958	О
265	Advance on the pyrolytic transformation of cellulose. <b>2021</b> , 49, 1733-1752	1
264	Factors That Affect the Mechanical Strength of Archaeological Wood-A Case Study of 18th-Century Wooden Water Pipes from B⊞icza Street in Pozna∏Poland <b>2021</b> , 14,	
263	Preparation, Characterization and Application of Amorphized Cellulose-A Review 2021, 13,	О
262	Highly Stretchable Bacterial Cellulose Produced by SI1 <b>2021</b> , 13,	o
261	Nanocellulose Hybrid Lignin Complex Reinforces Cellulose to Form a Strong, Water-Stable Lignin-Cellulose Composite Usable as a Plastic Replacement <b>2021</b> , 11,	О
260	HETEROGENEOUS CATALYTIC FRACTIONATION OF BIRCH-WOOD BIOMASS INTO MICROCRYSTALLINE CELLULOSE, XYLOSE AND ENTEROSORBENTS. <b>2021</b> , 105-118	
259	Building an Extensible Cell Wall 2022,	7
258	The Influence of High-Intensity Ultrasonication on Properties of Cellulose Produced from the Hop Stems, the Byproduct of the Hop Cones Production <b>2022</b> , 27,	O
257	Beyond Crystallinity: Using Raman Spectroscopic Methods to Further Define Aggregated/Supramolecular Structure of Cellulose. <b>2022</b> , 10,	
256	Bioconversion of Terephthalic Acid and Ethylene Glycol Into Bacterial Cellulose by DSM 2004 and DSM 46604 <b>2022</b> , 10, 853322	O
255	Optimization of synergistic degradation of steam exploded corn straw by lytic polysaccharide monooxygenase R17L and cellulase. <b>2022</b> , 182, 114924	О
254	Data_Sheet_1.docx. <b>2020</b> ,	
253	Image_1.TIF. <b>2019</b> ,	
252	Image_2.TIF. <b>2019</b> ,	
251	Image_3.TIF. <b>2019</b> ,	
250	Table_1.docx. <b>2019</b> ,	

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248	Nanostructured Temperature Indicator for Cold Chain Logistics <b>2022</b> ,	2
247	Nitro-Oxidation Process for Fabrication of Efficient Bioadsorbent from Lignocellulosic Biomass by Combined Liquid-Gas Phase Treatment.	
246	Value-Added Utilization of Wheat Straw: From Cellulose and Cellulose Nanofiber to All-Cellulose Nanocomposite Film. <b>2022</b> , 12, 475	2
245	Experimental investigation on mechanical, thermal behaviour and characterisation analysis of aquatic waste water hyacinth plant fibre, powder and ash reinforced polymer composite material Dangerous aquatic threat into successive product approach. 095440622210861	
244	Extraction and Characterization of Cellulose from Agricultural By-Products of Chiang Rai Province, Thailand <b>2022</b> , 14,	4
243	Effect of Crystalline Structure on the Catalytic Hydrolysis of Cellulose in Subcritical Water. <b>2022</b> , 10, 5859-5866	O
242	Liquid Systems Based on Tetra(-butyl)phosphonium Acetate for the Non-dissolving Pretreatment of a Microcrystalline Cellulose (Avicel PH-101) <b>2022</b> ,	
241	An Overview of Extrusion as a Pretreatment Method of Lignocellulosic Biomass. <b>2022</b> , 15, 3002	0
240	Extraction and Characterization of Natural Cellulosic Fiber from Taraxacum Sect. Ruderalia. 1-9	O
239	An Innovative Preparation, Characterization, and Optimization of Nanocellulose Fibers (NCF) Using Ultrasonic Waves. <b>2022</b> , 14, 1930	
238	Effects of Deep Eutectic Solvents on cellulosic fibres and paper properties: Green Themical refining. <b>2022</b> , 119606	O
237	Fluorescent Imaging of Extracellular Fungal Enzymes Bound onto Plant Cell Walls 2022, 23,	
236	Cellulose Nanocrystal Aqueous Colloidal Suspensions: Evidence of Density Inversion at the Isotropic-liquid Crystal Phase Transition <b>2022</b> , e2108227	1
235	Recovery of cellulose and lignin from Eucalyptus by-product and assessment of cellulose enzymatic hydrolysis. <b>2022</b> ,	O
234	Biomaterial and biocompatibility evaluation of tunicate nanocellulose for tissue engineering. <b>2022</b> , 137, 212828	
233	Pretreatment of lignocellulosic feedstocks for cellulose nanofibril production. 1	1
232	Disk-shaped cellulose fibers from red algae, Eucheuma cottonii and its use for high oxygen barrier <b>2022</b> ,	O

231	Investigation of the interphase structure in polyamide 6hatrix, multi-scale composites. <b>2022</b> , 225, 109489	O
230	Morphological, UV blocking, and antimicrobial features of multifunctional cotton fibers coated with ZnO/Cu via sonochemistry. <b>2022</b> , 286, 126210	O
229	Stability of the Cellic CTec2 enzymatic preparation immobilized onto magnetic graphene oxide: Assessment of hydrolysis of pretreated sugarcane bagasse. <b>2022</b> , 183, 114972	O
228	Evolution of the ultrastructure and polysaccharide composition of flax fibres over time: When history meets science. <b>2022</b> , 291, 119584	1
227	Synthesis of high quality boehmite and 🕒 alumina for phosphorus removal from water works sludge by extraction and hydrothermal treatment <b>2022</b> , 113448	O
226	Inherent characteristics of the hygroscopicity of fiber and parenchyma of bamboo.	O
225	Comparative study on material properties of wood-ash alkali and commercial alkali treated Sterculia fiber.	1
224	X-ray Diffraction Data on the Bacterial Nanocellulose Synthesized by Komagataeibacter xylinus #2429 and #2431 Microbial Producers in Miscanthus- and Oat Hull-Derived Enzymatic Hydrolyzates. <b>2022</b> , 67, 391-397	O
223	Advanced sampling, sample preparation and combination of methods applicable in analysis of compounds in aged and deacidified papers. A minireview. <b>2022</b> ,	
222	Nitro-oxidation process for fabrication of efficient bioadsorbent from lignocellulosic biomass by combined liquid-gas phase treatment. <b>2022</b> , 3, 100219	
221	Enhanced production of levoglucosenone from pretreatment assisted catalytic pyrolysis of waste paper. <b>2022</b> , 165, 105567	O
220	The alleviation of lignin inhibition on enzymatic hydrolysis of cellulose by changing its ultrastructure. <b>2022</b> , 185, 115108	O
219	Efficient preparation of cellulose nanocrystals with a high yield through simultaneous acidolysis with a heatfhoisture treatment. <b>2022</b> , 391, 133285	O
218	Impact of Alkali Impregnation on Physicochemical Properties of Macro-Scale Sugarcane Bagasse.	
217	Microbial Nanocellulose Biotextiles for a Circular Materials Economy.	O
216	The effect of polymer grafting on the mechanical properties of PEG -grafted cellulose nanocrystals in poly(lactic acid).	1
215	Effects of ammonium persulfate on coconut wood ( Cocos nucifera L .) cellulose, hemicellulose, and lignin polymers: Improved sound absorption capacity.	0
214	Lessons From Insect Fungiculture: From Microbial Ecology to Plastics Degradation. 2022, 13,	О

213	Fabrication and characterization of a novel Ba2+-loaded sawdust biochar doped with iron oxide for the super-adsorption of SO42[from wastewater. <b>2022</b> , 135233	Ο
212	DiPoly (DIFFRACTION ANALYSIS OF POLYMERS): A SOFTWARE FOR THE BIOPOLYMERS TESTING USING POWDER DIFFRACTION DATA. <b>2022</b> , 63, 642-646	
211	Cellulose Microfibers Isolated from Yucca Leaves: Structural, Chemical, and Thermal Properties. 1-11	О
210	Valorization of brewer's spent grain by consecutive supercritical carbon dioxide extraction and enzymatic hydrolysis. <b>2022</b> , 133493	2
209	Rice straw structure changes following green pretreatment with petha wastewater for economically viable bioethanol production. <b>2022</b> , 12,	O
208	Fabrication and Characterization of Functionalized Multi-Wall Carbon Nanotubes Flexible Network Modified by a Layer of Polypyrrole Conductive Polymer and Metallic Nanoparticles. 36, 21-33	
207	Metal/acid bifunctional catalysts for the reductive catalytic fractionation of lignocellulose into phenols and holocellulose. <b>2022</b> , 108085	0
206	Valorization of paper mill sludge using protic ionic liquids and deep eutectic solvents as a potential feedstock for biorefineries. 1-12	1
205	A strategy of co-fermentation of distillers dried grains with solubles (DDGS) and lignocellulosic feedstocks as swine feed. 1-15	1
204	Characterization of mono-diacylglycerols, cellulose nanocrystals, polypropylene, and supporting materials as raw materials for synthesis of antistatic bionanocomposites. <b>2022</b> , 1034, 012009	
203	Prediction of the equilibrium moisture content based on the chemical composition and crystallinity of natural fibres. <b>2022</b> , 186, 115187	0
202	Highly functional bio-based micro- and nano-structured materials for neodymium recovery. <b>2022</b> , 447, 137418	O
201	Investigation of Rheological Behaviors of Aqueous Gum Arabic in the Presence of Crystalline Nanocellulose.	
<b>2</b> 00	Microbial resources for bioconversion of lignocellulose to ethanol. <b>2022</b> , 237-268	
199	Upcycling Cotton Textile Waste into Bio-Based Building Blocks Through an Environmentally Friendly and High-Yield Conversion Process.	0
198	IS MERCERIZATION THE ONLY FACTOR FOR (PARTIAL) POLYMORPHIC TRANSITION OF CELLULOSE I TO CELLULOSE II IN CELLULOSE NANOCRYSTALS?. <b>2022</b> , 56, 495-507	1
197	Modification of Cellulose Nanocrystals as Antibacterial Nanofillers to Fabricate Rechargeable Nanocomposite Films for Active Packaging. <b>2022</b> , 10, 9265-9274	0
196	A Simple Techno-Economic Assessment for Scaling-Up the Enzymatic Hydrolysis of MSW Pulp. 10,	Ο

195	"LABORATORY SCALE PRODUCTION OF HYDROXYPROPYLMETHYLCELLULOSE (HPMC) IN A GAS-TIGHT REACTOR UNDER PRESSURE AND ITS APPLICATION IN CEMENT PASTE". <b>2022</b> , 56, 517-530	
194	Effect of incorporating iron II disulfide to poly(3-hexylthiophene-2,5-diyl) on its physicochemical properties and influence in photovoltaic devices.	
193	Treating lignocellulosic biomass with dilute solutions at ambient temperature: effects on cellulose crystallinity.	0
192	Characteristics of crystalline and amorphous fractions of date-pits as treated by alcohol-water pressure cooking. <b>2022</b> , 100331	О
191	Bacterial cellulose production from acerola industrial waste using isolated kombucha strain.	0
190	A CP/MAS 13C NMR investigation of cellulose ultrastructure in traditional Chinese handmade papers. <b>2022</b> ,	
189	Ultrasonic Processing of Food Waste to Generate Value-Added Products. <b>2022</b> , 11, 2035	1
188	A Review of Properties of Nanocellulose, Its Synthesis, and Potential in Biomedical Applications. <b>2022</b> , 12, 7090	2
187	Preparation of an Active Dressing by In Situ Biosynthesis of a Bacterial Cellulose <b>©</b> raphene Oxide Composite. <b>2022</b> , 14, 2864	2
186	Plastic Waste Valorization by Leveraging Multidisciplinary Catalytic Technologies. 9307-9324	4
185	Two-step activated carbon cloth enhances microbial interactions and methane production during anaerobic digestion of municipal sludge. <b>2022</b> , 196, 366-374	0
184	Cellulose nanocrystals-reinforced core-shell hydrogels for sustained release of fertilizer and water retention. <b>2022</b> , 216, 24-31	1
183	Improving enzymatic saccharification of corn stover via thioglycolic acid-mediated Fenton pretreatment. <b>2022</b> , 365, 132804	
182	Cellulose interactions with CO2 in NaOH(aq): The (un)expected coagulation creates potential in cellulose technology. <b>2022</b> , 294, 119771	1
181	Comparative observation of the flow behavior of low- and high-temperature ashes of biomass. <b>2022</b> , 327, 125232	О
180	Hydroxyapatite from Natural Sources for Medical Applications. <b>2022</b> , 15, 5091	2
179	Foldable and Recyclable Iontronic Cellulose Nanopaper for Low-Power Paper Electronics. 2200177	2
178	Influence of sulfation pretreatment on the structure and properties of cellulose nanofibrils. <b>2022</b> , 187, 115391	O

177	Thermal insulation potential of wood-cereal straws/plaster composite. 2022, 17, e01353	2
176	?????????????. 2022,	O
175	Alkalization of Kraft Pulps from Pine and Eucalyptus and Its Effect on Enzymatic Saccharification and Viscosity Control of Cellulose. <b>2022</b> , 14, 3127	1
174	Characterisation of Elementary Kenaf Fibres Extracted Using HNO3 and H2O2/CH3COOH. <b>2022</b> , 10, 63	O
173	Study of Characterization of Activated Carbon from Coconut Shells on Various Particle Scales as Filler Agent in Composite Materials. <b>2022</b> , 50, 256-271	О
172	Extraction of Chitin from Green Crab Shells by Mechanochemistry and Aging.	2
171	Measurement of the Crystallinity Index of High-Purity Quartz at Various Stages of Separation and Study of Its Structure by X-Ray Diffraction and Electron Backscatter Diffraction. <b>2022</b> , 16, 484-489	
170	Production and Characterization of Bacterial Cellulose Separators for Nickel-Zinc Batteries. <b>2022</b> , 15, 5727	O
169	X-Ray Scattering Reveals Two Mechanisms of Cellulose Microfibril Degradation by Filamentous Fungi.	
168	Characterization of exopolysaccharide derived from Enterobacter ludwigii and its possible role as an emulsifier. <b>2022</b> , 12,	
167	Recycling different textile wastes for methane production: Morphological and microstructural changes and microbial community dynamics. <b>2022</b> , 151, 154-162	O
166	High performance and sustainable CNF membrane via facile in-situ envelopment of hydrochar for water treatment. <b>2022</b> , 296, 119948	O
165	Preparation and characterization of cellulose fibers from Meghatyrsus maximus: Applications in its chemical derivatives. <b>2022</b> , 296, 119918	O
164	Facile and green synthesis of nanocellulose with the assistance of ultraviolet light irradiation for high-performance quasi-solid-state zinc-ion batteries. <b>2022</b> , 628, 1-9	O
163	Hydrophobization of lignocellulosic materials part II: chemical modification.	1
162	Pyrolysis mechanism of natural fiber in cement-based composites at high temperatures. <b>2022</b> , 351, 128986	1
161	Leaves from four different sugarcane varieties as potential renewable feedstocks for second-generation ethanol production: Pretreatments, chemical composition, physical structure, and enzymatic hydrolysis yields. <b>2022</b> , 45, 102485	О
160	Assessment of cellulose interactions with water by ssNMR: 1H->13C transfer kinetics revisited. <b>2022</b> , 298, 120104	О

159	Investigation of rheological behaviors of aqueous gum Arabic in the presence of crystalline nanocellulose. <b>2022</b> , 4, 100243	0
158	Water-stable, strong, biodegradable lignocellulose straws replacement for plastic straws. <b>2023</b> , 451, 138970	1
157	Hierarchical Structures of Carboxymethyl Cellulose Nanofiber Hydrogels Formed Byfreeze Cross-Linking.	0
156	Understanding the Influences of Poplar Recalcitrance During Combinatorial Pretreatment on Ethanol Production.	o
155	Recalcitrance of Lignocellulosic Biomass and Pretreatment Technologies: A Comprehensive Insight. <b>2022</b> , 13-52	0
154	In Situ Growth of Cofs within Wood Microchannels for Wastewater Treatment and Oil-Water Separation.	o
153	Enzymatic production of xylooligosaccharides from corn cobs: Assessment of two different pretreatment strategies. <b>2023</b> , 299, 120174	0
152	Characterization of raw and alkali-treated cellulosic fibers extracted from Borassus flabellifer L	О
151	Bacterial Cellulose as a Versatile Biomaterial for Wound Dressing Application. 2022, 27, 5580	3
150	Control of Electron Pathway in in-situ Synthesized Carbon Dot@Cellulose Nanofiber with Stable Solid-state Emission. <b>2022</b> , 23, 2132-2138	О
149	Material Properties of Traditional Handmade Paper Samples Fabricated from Cellulosic Fiber of Lokta Bushes. <b>2022</b> , 7, 32717-32726	0
148	Solution Casting of Cellulose Acetate films. Influence of Surface Substrate and Humidity on Wettability, Morphology and Optical Properties.	o
147	Effect of Impregnation with Natural Shellac Polymer on the Mechanical Properties of Fast-Growing Chinese Fir. <b>2022</b> , 14, 3871	0
146	PrMem: Novel flexible biodegradable paper-graphene oxide-based memristor.	O
145	Cellulose Nanocrystals-Incorporated Thermosensitive Hydrogel for Controlled Release, 3D Printing, and Breast Cancer Treatment Applications. <b>2022</b> , 14, 42812-42826	0
144	Artificial Intelligence-Aided Low Cost and Flexible Graphene Oxide-Based Paper Sensor for Ultraviolet and Sunlight Monitoring. <b>2022</b> , 17,	o
143	Physico-chemical characterization of Grewia Monticola Sond (GMS) fibers for prospective application in biocomposites. 1-15	1
142	Qualitative and Quantitative Correlation of Microstructural Properties and In Vitro Glucose Adsorption and Diffusion Behaviors of Pea Insoluble Dietary Fiber Induced by Ultrafine Grinding. <b>2022</b> , 11, 2814	O

141	Anaerobic Co-Digestion of Wastes: Reviewing Current Status and Approaches for Enhancing Biogas Production. <b>2022</b> , 12, 8884	1
140	Extraction of Carboxylated Nanocellulose by Combining Mechanochemistry and NADES. 2022, 10, 13017-13	3025₀
139	Renewable Schiff-Base Ionic Liquids for Lignocellulosic Biomass Pretreatment. <b>2022</b> , 27, 6278	1
138	Effect of hydrolysis time, pH and surfactant type on stability of hydrochloric acid hydrolyzed nanocellulose. <b>2022</b> ,	O
137	In situ growth of COFs within wood microchannels for wastewater treatment and oil-water separation. <b>2022</b> , 122275	1
136	A residue-free and effective corncob extrusion pretreatment for the enhancement of high solids loading enzymatic hydrolysis to produce sugars. <b>2022</b> , 188, 115655	2
135	Microscopic structural changes during the freeze cross-linking reaction in carboxymethyl cellulose nanofiber hydrogels. <b>2022</b> , 4, 100251	0
134	Molecular and structural impacts of fungal depolymerization of corn stover to reduce pretreatment severity.	Ο
133	High lignin-containing nanocelluloses prepared via TEMPO-mediated oxidation and polyethylenimine functionalization for antioxidant and antibacterial applications. <b>2022</b> , 12, 30030-30040	О
132	Waste Clothes to Microcrystalline Cellulose: An Experimental Investigation.	O
131	Effect of Microwave Plasma Pre-Treatment on Cotton Cellulose Dissolution. 2022, 27, 7007	O
130	Functionalized Cellulose Nanocrystals as Active Reinforcements for Light-Actuated 3D-Printed Structures.	2
129	The effects of sequential hydrothermal-mechanical refining pretreatment on cellulose structure changes and sugar recoveries.	0
128	Effect of heat-set temperature on the crease recovery behavior of cotton fabric dip-coated with shape memory polyurethane. <b>2022</b> , 126952	O
127	Mechanical Amorphization of Chitosan with Different Molecular Weights. 2022, 14, 4438	1
126	Nanocellulose: Native State, Production, and Characterization. <b>2023</b> , 1-39	O
125	Extraction of Cellulosic Filler from Artocarpus heterophyllus (Jackfruit) as a Reinforcement Material for Polymer Composites.	1
124	Fully bio-based supramolecular gel based on cellulose nanowhisker gallate by cyclodextrin host-guest chemistry. <b>2023</b> , 299, 120222	0

123	Selection of protic ionic liquids for the improved production of butanol from rice straw. <b>2023</b> , 333, 126386	1
122	Design and synthesis of SO3H-functionalized acidic ionic liquids for catalytic conversion of wheat straw to ethyl levulinate. <b>2023</b> , 333, 126284	1
121	Upcycling cotton textile waste into bio-based building blocks through an environmentally friendly and high-yield conversion process. <b>2023</b> , 189, 106715	O
120	Effects of Biochar and Nitrogen Application on Rice Biomass Saccharification, Bioethanol Yield and Cell Wall Polymers Features. <b>2022</b> , 23, 13635	O
119	Optimization of bacterial cellulose production from alcohol lees by intermittent feeding strategy.	0
118	Reductive Catalytic Fractionation of Spruce Wood over Ru/C Bifunctional Catalyst in the Medium of Ethanol and Molecular Hydrogen. <b>2022</b> , 12, 1384	2
117	Low energy and solvent free technique for the development of nanocellulose based bioplastic from banana pseudostem juice. <b>2022</b> , 4, 100261	0
116	Thermochemical characterization of post-phytoremediated vetiver (Vetiveria zizanioides (L.) Nash) root and shoot for their prospective bioenergy potential. <b>2023</b> , 191, 115964	O
115	Microwave-assisted esterification of bleached and unbleached cellulose nanofibers. 2023, 191, 115970	0
114	Synthesis of pine needle cyanoethyl cellulose using Taguchi L25 orthogonal array. <b>2023</b> , 191, 115973	O
113	Nata de fique: A cost-effective alternative for the large-scale production of bacterial nanocellulose. <b>2023</b> , 192, 116015	1
112	Influence of cellulose ultrastructure on the catalytic pyrolysis for selective production of levoglucosenone. <b>2023</b> , 192, 116072	O
111	Production and characterization of cellulose nanocrystals of different allomorphs from oil palm empty fruit bunches for enhancing composite interlaminar fracture toughness. <b>2023</b> , 5, 100272	О
110	Modification of Niasicacao Pod Husk Cellulose through Carboxymethylation Stages by Using MAOS Method and Its Application as Li-ion Batteries Biopolymer Electrolyte Membrane**. <b>2022</b> , 7,	O
109	Use of Fourier Series in X-ray Diffraction (XRD) Analysis and Fourier-Transform Infrared Spectroscopy (FTIR) for Estimation of Crystallinity in Cellulose from Different Sources. <b>2022</b> , 14, 5199	1
108	Modification of Physio-Mechanical Properties of Chitosan-Based Films via Physical Treatment Approach. <b>2022</b> , 14, 5216	O
107	Effect of stem structural characteristics and cell wall components related to stem lodging resistance in a newly identified mutant of hexaploid wheat (Triticum aestivum L.). 13,	O
106	Highly mesoporous and compressible sugarcane aerogel via top-down nanotechnology as effective and reusable oil absorbents.	O

105	Bleaching cotton in textile conservation: a closer look using atomic force microscopy. 2022, 10,	Ο
104	PU Foams Resistance Against Natural Weathering Aging: The Effect of Coffee Husk Residues in Different Contents.	O
103	The Relationship between Structural Features of Lignocellulosic Materials and Ethanol Production Yield. <b>2022</b> , 6, 119	0
102	A Petrochemical-Free Route to Superelastic Hierarchical Cellulose Aerogel.	1
101	Birch wood biorefinery into microcrystalline, microfibrillated, and nanocrystalline celluloses, xylose, and adsorbents.	1
100	A New Insight into the Composition and Physical Characteristics of CorncobBubstantiating Its Potential for Tailored Biorefinery Objectives. <b>2022</b> , 8, 704	2
99	Degradation of Chemical Components of Thermally Modified Robinia pseudoacacia L. Wood and Its Effect on the Change in Mechanical Properties. <b>2022</b> , 23, 15652	O
98	Rapid Fabrication of Pineapple Leaf Fibers from Discarded Leaves by Using Electrolysis of Brine. <b>2023</b> , 3, 1-10	O
97	Chitosan and HPMCAS double-coating as protective systems for alginate microparticles loaded with Ctx(Ile21)-Ha antimicrobial peptide to prevent intestinal infections. <b>2022</b> , 121978	1
96	Bacterial Cellulose Production by Komagateibacter xylinus with the Use of Enzyme-Degraded Oligo- and Polysaccharides as the Substrates. <b>2022</b> , 12, 12673	Ο
95	A Petrochemical-Free Route to Superelastic Hierarchical Cellulose Aerogel.	О
94	Ultrasonic irradiation as a mild and efficient protocol for the demineralization of chitin from shrimp shell wastes. <b>2023</b> , 43, 359-368	O
93	Multiscale micromechanics modeling of plant fibers: upscaling of stiffness and elastic limits from cellulose nanofibrils to technical fibers. <b>2023</b> , 56,	0
92	Variation in the hierarchical structure of lignin-blended cellulose precursor fibers. <b>2023</b> , 225, 1555-1561	0
91	Agricultural Lignocellulosic Waste to Biofuels. <b>2023</b> , 205-247	Ο
90	Grafting of poly(stearyl acrylate) on cellulose fibers as 3D-printable HDPE composites.	O
89	Hydrophilic modification of cellulose using sulfamic acid for optical fiber humidity sensor fabrication.	О
88	Preparation of porous microcrystalline cellulose from mezcal industry agave bagasse by low reagent loading sequential chemical treatment.	Ο

87	Solution casting of cellulose acetate films: influence of surface substrate and humidity on wettability, morphology and optical properties.	О
86	Cellulose nanofibril production by the combined use of four mechanical fibrillation processes with different destructuration effects.	O
85	Bacterial nanocellulose production using Cantaloupe juice, statistical optimization and characterization. <b>2023</b> , 13,	О
84	Extraction and Physico-Chemical Characterization of Pineapple Crown Leaf Fibers (PCLF). 2023, 11, 5	O
83	Physical, Static, and Kinetic Analysis of the Electrochemical Deposition Process for the Recovery of Heavy Metal from Industrial Wastewater. <b>2023</b> , 2023, 1-8	О
82	Endo-Exoglucanase Synergism for Cellulose Nanofibril Production Assessment and Characterization. <b>2023</b> , 28, 948	O
81	Delignification of Palm Oil Empty Fruit Bunch by ozonization and its physicochemical effect.	О
80	Bacterial Cellulose-Based Blends and Composites: Versatile Biomaterials for Tissue Engineering Applications. <b>2023</b> , 24, 986	1
79	Characterization of Elementary Industrial Hemp (Cannabis Sativa L.) Fiber and Its Fabric. 2023, 20,	0
78	An integrated hydrothermal process of bamboo flattening, densification and drying: Mechanical properties and strengthening mechanisms. <b>2023</b> , 226, 111610	O
77	A cascade valorization of Kenaf stalk for the preparation of lignin sunscreens and papermaking. <b>2023</b> , 230, 123122	0
76	Iodine removal efficiently from wastewater by magnetic Fe3O4 incorporated within activated porous cellulose. <b>2023</b> , 193, 116201	O
75	Understanding the influences of poplar recalcitrance during combinatorial pretreatment on ethanol production. <b>2023</b> , 242, 107636	О
74	Construction of compostable packaging with antibacterial property and improved performance using sprayed coatings of modified cellulose nanocrystals. <b>2023</b> , 305, 120539	O
73	Characterization of new natural cellulosic fibers from Cyperus compactus Retz. (Cyperaceae) Plant. <b>2023</b> , 5, 100286	О
7 <sup>2</sup>	Cellulose-based films with internal plasticization with epoxidized soybean oil.	O
71	Photocatalytic H2 production from water splitting employing depolymerized cellulose through LiCl activation as sacrificial agent. <b>2022</b> ,	О
70	Bioplastic Floss of a Novel Microwave-Thermospun Shellac: Synthesis and Bleaching for Some Dental Applications. <b>2023</b> , 15, 142	O

69	Heterogeneous Catalytic Fractionation of Birch-Wood Biomass into a Microcrystalline Cellulose, Xylose and Enterosorbents. <b>2022</b> , 48, 1476-1485	0
68	Opportunities and challenges for the production of fuels and chemicals: materials and processes for biorefineries. <b>2023</b> , 551-620	O
67	Isolation and characterization of nanocellulose from selected hardwoods, viz., Eucalyptus tereticornis Sm. and Casuarina equisetifolia L., by steam explosion method. <b>2023</b> , 13,	0
66	Bacterial Cellulose-Based Materials as Dressings for Wound Healing. <b>2023</b> , 15, 424	Ο
65	Strong, Shape-Memory Lignocellulosic Aerogel via Wood Cell Wall Nanoscale Reassembly.	О
64	Impact of alkali impregnation on physicochemical properties of macro-scale sugarcane bagasse.	O
63	Convenient Cross-Linking Control of Lignin-Based Polymers Influencing Structure <b>P</b> roperty Relationships. <b>2023</b> , 11, 1709-1719	О
62	Extraction and characterization of cellulosic fibers from the stem of papaya tree (Carica papaya L.). <b>2023</b> , 243-265	O
61	Chemically and Physically Pretreated Straw in Moderate Conditions: Poor Correlation between Biogas Production and Commonly Used Biomass Characterization. <b>2023</b> , 16, 1146	0
60	Sustainable Valorization of Wood Residue for the Production of Biofuel Materials Via Continuous Flow Hydrothermal Liquefaction.	O
59	Nanocellulose-Based Biomaterial Ink Hydrogel for Uptake/Release of Bovine Serum Albumin. <b>2023</b> , 15, 837	О
58	Induced Piezoelectricity in Cotton-Based Composites for Energy-Harvesting Applications.	O
57	Green electrolyte host based on synthesized benzoyl kappa-carrageenan: Reduced hydrophilicity and improved conductivity. <b>2023</b> , 16, 104687	0
56	Mild isolation and characterization of surface lignin from hydrothermally pretreated lignocellulosic forestry and agro-industrial waste biomass. <b>2023</b> , 33, 101056	O
55	Steam explosion improves extractability, antioxidant activity and Eglucosidase inhibitory activity of the constituents of Java tea (Clerodendranthus spicatus). <b>2023</b> , 86, 103350	О
54	Insights on butyl levulinate bio-blendstock: From model sugars to paper mill waste cellulose as feedstocks for a sustainable catalytic butanolysis process. <b>2023</b> , 418, 114054	O
53	Edible hydrogels with shrinkage tolerance in acids and stomach-friendly mechanical moduli. <b>2023</b> , 32, 101786	Ο
52	The crystalline structure transition and hydrogen bonds shift determining enhanced enzymatic digestibility of cellulose treated by ultrasonication. <b>2023</b> , 876, 162631	Ο

51	A computational study of cellulose regeneration: All-atom molecular dynamics simulations. <b>2023</b> , 311, 120768	0
50	Green solid-liquid extraction of cactus (Opuntia ficus-indica) cladode dietary fibers. I- optimization, pilot-scale production, and characterization. <b>2023</b> , 670, 115139	О
49	Electrospun PVA membranes reinforced with cellulose nanocrystals and thermally reduced graphene oxide: Thermal, mechanical and UV-protection properties. <b>2023</b> , 197, 116614	0
48	Enhancing cellulosic digestibility of wheat straw by adding sodium lignosulfonate and sodium hydroxide to hydrothermal pretreatment. <b>2023</b> , 379, 129058	o
47	Microwave assisted alkali pretreatment of fruit peel wastes for enzymatic hydrolysis. 2017, 87,	О
46	GO-Enabled Bacterial Cellulose Membranes by Multistep, In Situ Loading: Effect of Bacterial Strain and Loading Pattern on Nanocomposite Properties. <b>2023</b> , 16, 1296	O
45	Low viscosity versus high viscosity PMMA bone cement for total joint arthroplasty: Influence of glass transition temperature, residual monomer content, transmittance of chemical functional groups, and crystallinity index on quasi-static flexural strength. <b>2023</b> , 10, 100176	0
44	Revealing the roles of biomass components in the biosorption of heavy metals in wastewater by various chemically treated hemp stalks. <b>2023</b> , 143, 104701	О
43	Cetylpyridinium chloride cationic finishing improves the dyeing and antibacterial properties of madder dyed cotton.	O
42	High-pressure microwave-assisted pretreatment of softwood, hardwood and non-wood biomass using different solvents in the production of cellulosic ethanol. <b>2023</b> , 16,	o
41	Modification of Cotton and Leather Surfaces Using Cold Atmospheric Pressure Plasma and TiO2-SiO2-Reduced Graphene Oxide Nanopowders. <b>2023</b> , 16, 1397	O
40	Corncob-derived nanocellulose-supported palladium nanoparticles towards catalytic reduction of 4-nitrophenol. <b>2023</b> ,	o
39	Application of Thermochemical Method to Determine the Crystallinity Degree of Cellulose Materials. <b>2023</b> , 13, 2387	0
38	Evolution of the Cellulose Microfibril through Gamma-Valerolactone-Assisted Co-Solvent and Enzymatic Hydrolysis. <b>2023</b> , 11, 3270-3283	O
37	Microfibrillated Cellulose with a Lower Degree of Polymerization; Synthesis via Sulfuric Acid Hydrolysis under Ultrasonic Treatment. <b>2023</b> , 15, 904	1
36	Aislamiento de nanocelulosa 2D a partir de la pared celular de Sargassum spp. <b>2023</b> , 11, 19-27	0
35	Evaluation of porous bacterial cellulose produced from foam templating with different additives and its application in 3D cell culture. <b>2023</b> , 234, 123680	O
34	Using environmentally friendly technology for fabricating special plywood with ultra-high strength. <b>2023</b> , 396, 136462	O

33	Reductive Catalytic Fractionation of Abies Wood into Bioliquids and Cellulose with Hydrogen in an Ethanol Medium over NiCuMo/SiO2 Catalyst. <b>2023</b> , 13, 413	0
32	Materials for Biocompatible Piezoelectric Devices. <b>2023</b> , 180-198	O
31	Application of TOPSIS algorithm in describing bacterial cellulose-based composite hydrogel performance in incorporating methylene blue as a model drug. <b>2023</b> , 13,	0
30	Effect of Nano-Clay and Jute Varieties on the Structural, Mechanical, and Thermal Properties of Polyester Composite. <b>2023</b> , 20,	O
29	Purification and Characterization of a Low Molecular Weight Neutral Non-Starch Polysaccharide from <i>Panax ginsen</i>g by Enzymatic Hydrolysis. <b>2023</b> , 70-79	0
28	Bactericidal Properties of Natural Fibers Hybrid Functionalized with ZnO/Cu2+ and ZnO/Cu0. <b>2023</b> , 24, 959-973	O
27	Recovery of the Structure, Characteristics, and Application of Thermal Drying-Deteriorated Cellulose Fibers. <b>2023</b> , 11, 3841-3849	0
26	A Comparative Study of Mechanism and Performance of Anionic and Cationic Dialdehyde Nanocelluloses for Dye Adsorption and Separation. <b>2023</b> , 8, 8634-8649	1
25	Sulfation of Birch Wood Microcrystalline Cellulose with Sulfamic Acid Using Ion-Exchange Resins as Catalysts. <b>2023</b> , 15, 1116	0
24	Solvent-Assisted Adsorption of Cellulose on a Carbon Catalyst as a Pretreatment Method for Hydrolysis to Glucose. <b>2023</b> , 5, 381-392	O
23	Citrated cellulose nanocrystals from post-consumer cotton textiles. 2023, 11, 6854-6868	0
22	Pretreatments as a key for enzymatic hydrolysis of lignocellulosic biomass. <b>2023</b> , 109-137	O
21	Characterizations of Rice Bran Nanofibers Produced by Enzymatic Treatment and Their Role in Stabilizing Oil-in-Water Pickering Emulsions.	O
20	The transformations of cellulose after concentrated sulfuric acid treatment and its impact on the enzymatic saccharification. <b>2023</b> , 16,	O
19	Kinetics of water sorption in single Sterculia and Bauhinia fibers at ambient temperature. <b>2023</b> , 5, 100872	0
18	Effect of food industry by-products on bacterial cellulose production and its structural properties.	O
17	Cellulose as sacrificial agents for enhanced photoactivated hydrogen production. 2023, 7, 1981-1991	0
16	Review on Optical Methods Used to Characterize the Linear Birefringence of Polymer Materials for Various Applications. <b>2023</b> , 28, 2955	O

15	The Effect of Cellulose Crystalline Structure Modification on Glucose Production from Chemical-Composition-Controlled Biomass. <b>2023</b> , 15, 5869	О
14	Grazing-incidence diffraction reveals cellulose and pectin organization in hydrated plant primary cell wall. <b>2023</b> , 13,	O
13	Boron Adsorption Kinetics of Microcrystalline Cellulose and Polymer Resin. 2023, 39, 5384-5395	0
12	Pulping and papermaking using pineapple leaves. <b>2023</b> , 233-243	Ο
11	Eucalyptus bleached kraft pulp-ionic liquid inks for 3D printing of ionogels and hydrogels. <b>2023</b> , 313, 120897	0
10	Extraction and Characterization of a New Natural Cellulosic Fiber from Bark of Ficus Carica Plant as Potential Reinforcement for Polymer Composites. <b>2023</b> , 20,	Ο
9	Effect of cellulose-based fillers on vulcanized natural rubber.	0
8	Morphologies and properties of lignocellulose fiber extracted from Typha leaves with potential for composite applications. 1-10	Ο
7	Isolation of cellulose microfibers and nanofibers by mechanical fibrillation in a water-free solvent.	О
6	Wearable Cellulosic Textile Electrodes with High Washability Based on Silver Nanowires to Capture Electrocardiogram.	Ο
5	CHEMO-MECHANICAL EXTRACTION AND CHARACTERIZATION OF SAYOTE (SECHIUM EDULE) FIBERS AT VARYING FIBER MATURITY. <b>2023</b> , 57, 29-36	О
4	Composite magnetic properties of cobalt ferrite nanoparticles embedded in bacterial nanocellulose of different porosity levels. <b>2023</b> , 303, 127798	Ο
3	Gelatinthitosantellulose nanocrystals as an acellular scaffold for wound healing application: fabrication, characterisation and cytocompatibility towards primary human skin cells. <b>2023</b> , 30, 5071-5092	О
2	Experimental investigations on material properties of alkali retted Pinus Roxburghii Fiber.	Ο
1	Carbohydrate nanotubes production and its techno-economic validation. <b>2023</b> , 22, 101460	О