Yonghao Ni

List of Publications by Year
in descending order

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		20817	51608
278	11,565	60	86
papers	citations	h-index	g-index

279	279	279	9437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Houttuynia-derived nitrogen-doped hierarchically porous carbon for high-performance supercapacitor. Carbon, 2020, 161, 62-70.	10.3	282
2	Jute as raw material for the preparation of microcrystalline cellulose. Cellulose, 2011, 18, 451-459.	4.9	248
3	3D printing using plant-derived cellulose and its derivatives: A review. Carbohydrate Polymers, 2019, 203, 71-86.	10.2	232
4	Biocompatible, self-wrinkled, antifreezing and stretchable hydrogel-based wearable sensor with PEDOT:sulfonated lignin as conductive materials. Chemical Engineering Journal, 2019, 370, 1039-1047.	12.7	230
5	A bionic tactile plastic hydrogel-based electronic skin constructed by a nerve-like nanonetwork combining stretchable, compliant, and self-healing properties. Chemical Engineering Journal, 2020, 379, 122271.	12.7	171
6	Ultraflexible Self-Healing Guar Gum-Glycerol Hydrogel with Injectable, Antifreeze, and Strain-Sensitive Properties. ACS Biomaterials Science and Engineering, 2018, 4, 3397-3404.	5.2	163
7	Anti-freezing and moisturizing conductive hydrogels for strain sensing and moist-electric generation applications. Journal of Materials Chemistry A, 2020, 8, 3109-3118.	10.3	158
8	Mussel-inspired blue-light-activated cellulose-based adhesive hydrogel with fast gelation, rapid haemostasis and antibacterial property for wound healing. Chemical Engineering Journal, 2021, 417, 129329.	12.7	157
9	An integrated transparent, UV-filtering organohydrogel sensor via molecular-level ion conductive channels. Journal of Materials Chemistry A, 2019, 7, 4525-4535.	10.3	143
10	A simple and effective approach to fabricate lignin nanoparticles with tunable sizes based on lignin fractionation. Green Chemistry, 2020, 22, 2011-2017.	9.0	140
11	All-Lignin-Based Hydrogel with Fast pH-Stimuli Responsiveness for Mechanical Switching and Actuation. Chemistry of Materials, 2020, 32, 4324-4330.	6.7	136
12	Ultrafast gelling using sulfonated lignin-Fe3+ chelates to produce dynamic crosslinked hydrogel/coating with charming stretchable, conductive, self-healing, and ultraviolet-blocking properties. Chemical Engineering Journal, 2020, 396, 125341.	12.7	130
13	Cellulose Nanofibers/Reduced Graphene Oxide/Polypyrrole Aerogel Electrodes for High-Capacitance Flexible All-Solid-State Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 11175-11185.	6.7	127
14	Robust Guar Gum/Cellulose Nanofibrils Multilayer Films with Good Barrier Properties. ACS Applied Materials & Interfaces, 2017, 9, 5477-5485.	8.0	122
15	Ultrasensitive Physical, Bio, and Chemical Sensors Derived from 1â€, 2â€, and 3â€Ð Nanocellulosic Materials. Small, 2020, 16, e1906567.	10.0	122
16	Applications of Cellulose-based Materials in Sustained Drug Delivery Systems. Current Medicinal Chemistry, 2019, 26, 2485-2501.	2.4	120
17	Adsorption of polyethylene glycol (PEG) onto cellulose nano-crystals to improve its dispersity. Carbohydrate Polymers, 2015, 123, 157-163.	10.2	116
18	Preparation of cellulose nanocrystals from asparagus (Asparagus officinalis L.) and their applications to palm oil/water Pickering emulsion. Carbohydrate Polymers, 2016, 151, 1-8.	10.2	110

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19	A process for enhancing the accessibility and reactivity of hardwood kraft-based dissolving pulp for viscose rayon production by cellulase treatment. Bioresource Technology, 2014, 154, 109-113.	9.6	108
20	A smart porous wood-supported flower-like NiS/Ni conjunction with vitrimer co-effect as a multifunctional material with reshaping, shape-memory, and self-healing properties for applications in high-performance supercapacitors, catalysts, and sensors. Journal of Materials Chemistry A, 2020, 8, 10898-10908.	10.3	107
21	Lignin-Based Nanoparticles Stabilized Pickering Emulsion for Stability Improvement and Thermal-Controlled Release of trans-Resveratrol. ACS Sustainable Chemistry and Engineering, 2019, 7, 13497-13504.	6.7	103
22	Cellulose nanocrystal/hexadecyltrimethylammonium bromide/silver nanoparticle composite as a catalyst for reduction of 4-nitrophenol. Carbohydrate Polymers, 2017, 156, 253-258.	10.2	101
23	Cellulosic Nanomaterials in Food and Nutraceutical Applications: A Review. Journal of Agricultural and Food Chemistry, 2018, 66, 8-19.	5.2	100
24	Synthesis of novel cellulose- based antibacterial composites of Ag nanoparticles@ metal-organic frameworks@ carboxymethylated fibers. Carbohydrate Polymers, 2018, 193, 82-88.	10.2	100
25	TEMPO-oxidized cellulose nanofibers (TOCNs) as a green reinforcement for waterborne polyurethane coating (WPU) on wood. Carbohydrate Polymers, 2016, 151, 326-334.	10.2	96
26	Regenerated cellulose by the Lyocell process, a brief review of the process and properties. BioResources, 2018, 13, 4577-4592.	1.0	94
27	A smart paper@polyaniline nanofibers incorporated vitrimer bifunctional device with reshaping, shape-memory and self-healing properties applied in high-performance supercapacitors and sensors. Chemical Engineering Journal, 2020, 396, 125318.	12.7	93
28	Modified Ti3C2TX (MXene) nanosheet-catalyzed self-assembled, anti-aggregated, ultra-stretchable, conductive hydrogels for wearable bioelectronics. Chemical Engineering Journal, 2020, 401, 126129.	12.7	92
29	A lignin-containing cellulose hydrogel for lignin fractionation. Green Chemistry, 2019, 21, 5222-5230.	9.0	89
30	Ultrasoft Self-Healing Nanoparticle-Hydrogel Composites with Conductive and Magnetic Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 6395-6403.	6.7	87
31	Carbohydrates-rich corncobs supported metal-organic frameworks as versatile biosorbents for dye removal and microbial inactivation. Carbohydrate Polymers, 2019, 222, 115042.	10.2	86
32	Production of highly electro-conductive cellulosic paper via surface coating of carbon nanotube/graphene oxide nanocomposites using nanocrystalline cellulose as a binder. Cellulose, 2014, 21, 4569-4581.	4.9	84
33	Preparation and Characterization of Lignin-Containing Cellulose Nanofibril from Poplar High-Yield Pulp via TEMPO-Mediated Oxidation and Homogenization. ACS Sustainable Chemistry and Engineering, 2019, 7, 6131-6139.	6.7	84
34	Mussel-Inspired Nanocomposite Hydrogel-Based Electrodes with Reusable and Injectable Properties for Human Electrophysiological Signals Detection. ACS Sustainable Chemistry and Engineering, 2019, 7, 7918-7925.	6.7	83
35	A self-cleaning and photocatalytic cellulose-fiber- supported â€œAg@AgCl@MOF- clothâ€™â€™ membrane for complex wastewater remediation. Carbohydrate Polymers, 2020, 247, 116691.	10.2	83
36	Facile synthesis of Ag NPs@ MIL-100(Fe)/ guar gum hybrid hydrogel as a versatile photocatalyst for wastewater remediation: Photocatalytic degradation, water/oil separation and bacterial inactivation. Carbohydrate Polymers, 2020, 230, 115642.	10.2	82

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37	Lignin and cellulose derivatives-induced hydrogel with asymmetrical adhesion, strength, and electriferous properties for wearable bioelectrodes and self-powered sensors. Chemical Engineering Journal, 2021, 414, 128903.	12.7	80
38	Ethylene Control Technologies in Extending Postharvest Shelf Life of Climacteric Fruit. Journal of Agricultural and Food Chemistry, 2017, 65, 7308-7319.	5.2	79
39	Flame retardant nanocomposites based on 2D layered nanomaterials: a review. Journal of Materials Science, 2019, 54, 13070-13105.	3.7	75
40	Recovering/concentrating of hemicellulosic sugars and acetic acid by nanofiltration and reverse osmosis from prehydrolysis liquor of kraft based hardwood dissolving pulp process. Bioresource Technology, 2014, 155, 111-115.	9.6	73
41	Flexible N-Doped reduced graphene oxide/carbon Nanotube-MnO2 film as a Multifunctional Material for High-Performance supercapacitors, catalysts and sensors. Journal of Materiomics, 2020, 6, 523-531.	5.7	72
42	Carbonized wood cell chamber-reduced graphene oxide@PVA flexible conductive material for supercapacitor, strain sensing and moisture-electric generation applications. Chemical Engineering Journal, 2021, 418, 129518.	12.7	72
43	Screen printing fabricating patterned and customized full paper-based energy storage devices with excellent photothermal, self-healing, high energy density and good electromagnetic shielding performances. Journal of Materials Science and Technology, 2022, 97, 190-200.	10.7	71
44	Cellulose-supported magnetic Fe3O4â€“MOF composites for enhanced dye removal application. Cellulose, 2019, 26, 4909-4920.	4.9	69
45	Lignin-Directed Control of Silver Nanoparticles with Tunable Size in Porous Lignocellulose Hydrogels and Their Application in Catalytic Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 12655-12663.	6.7	69
46	A self-healing, stretchable, and conductive Poly(N-vinylpyrrolidone)/gallic acid composite hydrogel formed via hydrogen bonding for wearable electronic sensors. Composites Science and Technology, 2020, 198, 108294.	7.8	69
47	Cellulose-based electrospun nanofiber membrane with core-sheath structure and robust photocatalytic activity for simultaneous and efficient oil emulsions separation, dye degradation and Cr(VI) reduction. Carbohydrate Polymers, 2021, 258, 117676.	10.2	69
48	Cellulose nanocrystals (CNC) as carriers for a spirooxazine dye and its effect on photochromic efficiency. Carbohydrate Polymers, 2014, 111, 419-424.	10.2	68
49	Multifunctional self-assembling hydrogel from guar gum. Chemical Engineering Journal, 2017, 330, 1044-1051.	12.7	68
50	Using Green Î³-Valerolactone/Water Solvent To Decrease Lignin Heterogeneity by Gradient Precipitation. ACS Sustainable Chemistry and Engineering, 2019, 7, 10112-10120.	6.7	68
51	Fabrication of thermo- and pH-sensitive cellulose nanofibrils-reinforced hydrogel with biomass nanoparticles. Carbohydrate Polymers, 2019, 215, 289-295.	10.2	68
52	A Facile Preparation of Super Longâ€Term Stable Lignin Nanoparticles from Black Liquor. ChemSusChem, 2019, 12, 5239-5245.	6.8	67
53	Vitrimer-Cellulose Paper Composites: A New Class of Strong, Smart, Green, and Sustainable Materials. ACS Applied Materials & Interfaces, 2019, 11, 36090-36099.	8.0	67
54	Green and sustainable cellulose-derived humidity sensors: A review. Carbohydrate Polymers, 2021, 270, 118385.	10.2	66

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55	Fast and selective organocatalytic ring-opening polymerization by fluorinated alcohol without a cocatalyst. Nature Communications, 2019, 10, 3590.	12.8	65
56	An all-paper, scalable and flexible supercapacitor based on vertically aligned polyaniline (PANI) nano-dendrites@fibers. Journal of Power Sources, 2021, 498, 229886.	7.8	65
57	Biomaterials- and biostructures Inspired high-performance flexible stretchable strain sensors: A review. Chemical Engineering Journal, 2021, 425, 129949.	12.7	65
58	Biopolymers for surface engineering of paper-based products. Cellulose, 2014, 21, 3145-3160.	4.9	64
59	Preparation of CNC-dispersed Fe3O4 nanoparticles and their application in conductive paper. Carbohydrate Polymers, 2015, 126, 175-178.	10.2	64
60	New Kind of Lignin/Polyhydroxyurethane Composite: Green Synthesis, Smart Properties, Promising Applications, and Good Reprocessability and Recyclability. ACS Applied Materials & Interfaces, 2021, 13, 28938-28948.	8.0	64
61	Oil/water interfaces of guar gum-based biopolymer hydrogels and application to their separation. Carbohydrate Polymers, 2017, 169, 9-15.	10.2	63
62	Chemically modified self-doped biocarbon via novel sulfonation assisted sacrificial template method for high performance flexible all solid-state supercapacitor. Journal of Colloid and Interface Science, 2020, 574, 33-42.	9.4	63
63	Temperature and pH responsive cellulose filament/poly (NIPAM-co-AAc) hybrids as novel adsorbent towards Pb(II) removal. Carbohydrate Polymers, 2018, 195, 495-504.	10.2	62
64	A novel method to prepare lignocellulose nanofibrils directly from bamboo chips. Cellulose, 2018, 25, 7043-7051.	4.9	61
65	Fabrication of Bacterial Cellulose/Polyaniline Nanocomposite Paper with Excellent Conductivity, Strength, and Flexibility. ACS Sustainable Chemistry and Engineering, 2019, 7, 8215-8225.	6.7	60
66	Preparation of High-Strength Sustainable Lignocellulose Gels and Their Applications for Antiultraviolet Weathering and Dye Removal. ACS Sustainable Chemistry and Engineering, 2019, 7, 2998-3009.	6.7	60
67	Chitosan oligosaccharide-based dual pH responsive nano-micelles for targeted delivery of hydrophobic drugs. Carbohydrate Polymers, 2019, 223, 115061.	10.2	58
68	A multifunctional self-crosslinked chitosan/cationic guar gum composite hydrogel and its versatile uses in phosphate-containing water treatment and energy storage. Carbohydrate Polymers, 2020, 244, 116472.	10.2	58
69	Chitin nanofibers as versatile bio-templates of zeolitic imidazolate frameworks for N-doped hierarchically porous carbon electrodes for supercapacitor. Carbohydrate Polymers, 2021, 251, 117107.	10.2	58
70	Wearable lignin-based hydrogel electronics: A mini-review. International Journal of Biological Macromolecules, 2021, 181, 45-50.	7.5	58
71	Recent advances on cellulose-based nanofiltration membranes and their applications in drinking water purification: A review. Journal of Cleaner Production, 2022, 333, 130171.	9.3	57
72	Asymmetrically Patterned Cellulose Nanofibers/Graphene Oxide Composite Film for Humidity Sensing and Moist-Induced Electricity Generation. ACS Applied Materials & Interfaces, 2020, 12, 55205-55214.	8.0	56

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73	Lignocellulose-derived hydrogel/aerogel-based flexible quasi-solid-state supercapacitors with high-performance: a review. Journal of Materials Chemistry A, 2021, 9, 14233-14264.	10.3	55
74	Applications of enzymatic technologies to the production of high-quality dissolving pulp: A review. Bioresource Technology, 2019, 281, 440-448.	9.6	54
75	An adaptive ionic skin with multiple stimulus responses and moist-electric generation ability. Journal of Materials Chemistry A, 2020, 8, 17498-17506.	10.3	53
76	Highly Selective Conversion of Furfural to Furfural Alcohol or Levulinate Ester in One Pot over ZrO₂@SBA-15 and Its Kinetic Behavior. ACS Sustainable Chemistry and Engineering, 2020, 8, 5584-5594.	6.7	53
77	Enhancing antibacterium and strength of cellulosic paper by coating triclosan-loaded nanofibrillated cellulose (NFC). Carbohydrate Polymers, 2015, 117, 996-1001.	10.2	52
78	Lignin sulfonate induced ultrafast polymerization of double network hydrogels with anti-freezing, high strength and conductivity and their sensing applications at extremely cold conditions. Composites Part B: Engineering, 2021, 217, 108879.	12.0	52
79	Recovery of lignocelluloses from pre-hydrolysis liquor in the lime kiln of kraft-based dissolving pulp production process by adsorption to lime mud. Bioresource Technology, 2011, 102, 10035-10039.	9.6	51
80	Preparation of the CNC/Ag/beeswax composites for enhancing antibacterial and water resistance properties of paper. Carbohydrate Polymers, 2016, 142, 183-188.	10.2	51
81	Characterization of high-yield pulp (HYP) by the solute exclusion technique. Bioresource Technology, 2009, 100, 6630-6634.	9.6	50
82	Microstructure, distribution and properties of conductive polypyrrole/cellulose fiber composites. Cellulose, 2013, 20, 1587-1601.	4.9	50
83	Super-ductile, injectable, fast self-healing collagen-based hydrogels with multi-responsive and accelerated wound-repair properties. Chemical Engineering Journal, 2021, 405, 126756.	12.7	49
84	Improving dispersion stability of hydrochloric acid hydrolyzed cellulose nano-crystals. Carbohydrate Polymers, 2019, 222, 115037.	10.2	47
85	Green mussel-inspired lignin magnetic nanoparticles with high adsorptive capacity and environmental friendliness for chromium(III) removal. International Journal of Biological Macromolecules, 2019, 132, 478-486.	7.5	47
86	Palladium nano-catalyst supported on cationic nanocelluloseâ€“alginate hydrogel for effective catalytic reactions. Cellulose, 2020, 27, 6995-7008.	4.9	47
87	Self-assembled all-polysaccharide hydrogel film for versatile paper-based food packaging. Carbohydrate Polymers, 2021, 271, 118425.	10.2	47
88	Methods to increase the reactivity of dissolving pulp in the viscose rayon production process: a review. Cellulose, 2018, 25, 3733-3753.	4.9	46
89	Preparation and Characterization of Cellulose-Based Nanofiltration Membranes by Interfacial Polymerization with Piperazine and Trimesoyl Chloride. ACS Sustainable Chemistry and Engineering, 2018, 6, 13168-13176.	6.7	46
90	Molded fiber and pulp products as green and sustainable alternatives to plastics: A mini review. Journal of Bioresources and Bioproducts, 2022, 7, 14-25.	20.5	45

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91	Fabrication of carboxymethylated cellulose fibers supporting Ag NPs@MOFâ€199s nanocatalysts for catalytic reduction of 4â€nitrophenol. Applied Organometallic Chemistry, 2019, 33, e4865.	3.5	44
92	Organic solar cells based on cellulose nanopaper from agroforestry residues with an efficiency of over 16% and effectively wide-angle light capturing. Journal of Materials Chemistry A, 2020, 8, 5442-5448.	10.3	44
93	Fabrication of reduced graphene oxide-cellulose nanofibers based hybrid film with good hydrophilicity and conductivity as electrodes of supercapacitor. Cellulose, 2021, 28, 3733-3743.	4.9	44
94	Pre-cryocrushing of natural carbon precursors to prepare nitrogen, sulfur co-doped porous microcellular carbon as an efficient ORR catalyst. Carbon, 2021, 173, 800-808.	10.3	44
95	Lignin nanofiller-reinforced composites hydrogels with long-lasting adhesiveness, toughness, excellent self-healing, conducting, ultraviolet-blocking and antibacterial properties. Composites Part B: Engineering, 2021, 225, 109316.	12.0	44
96	Improving salt tolerance and thermal stability of cellulose nanofibrils by grafting modification. Carbohydrate Polymers, 2019, 211, 257-265.	10.2	43
97	Nature-inspired self-powered cellulose nanofibrils hydrogels with high sensitivity and mechanical adaptability. Carbohydrate Polymers, 2021, 264, 117995.	10.2	43
98	Nanolignin filled conductive hydrogel with improved mechanical, anti-freezing, UV-shielding and transparent properties for strain sensing application. International Journal of Biological Macromolecules, 2022, 205, 442-451.	7.5	43
99	Mechanical pretreatment improving hemicelluloses removal from cellulosic fibers during cold caustic extraction. Bioresource Technology, 2015, 192, 501-506.	9.6	42
100	Catalytic Transfer Hydrogenation of Biobased HMF to 2,5-Bis-(Hydroxymethyl)Furan over Ru/Co3O4. Catalysts, 2017, 7, 92.	3.5	42
101	Nanocellulose-assisted synthesis of ultrafine Co nanoparticles-loaded bimodal micro-mesoporous N-rich carbon as bifunctional oxygen electrode for Zn-air batteries. Journal of Power Sources, 2020, 450, 227640.	7.8	42
102	Fruit-battery-inspired self-powered stretchable hydrogel-based ionic skin that works effectively in extreme environments. Journal of Materials Chemistry A, 2021, 9, 3968-3975.	10.3	42
103	Enhancing hemicelluloses removal from a softwood sulfite pulp. Bioresource Technology, 2015, 192, 11-16.	9.6	41
104	Spider web-inspired ultra-stable 3D Ti3C2TX (MXene) hydrogels constructed by temporary ultrasonic alignment and permanent in-situ self-assembly fixation. Composites Part B: Engineering, 2020, 197, 108187.	12.0	41
105	Silver nanoparticles-containing dual-function hydrogels based on a guar gum-sodium borohydride system. Scientific Reports, 2016, 6, 36497.	3.3	40
106	A multifunctional nanocellulose-based hydrogel for strain sensing and self-powering applications. Carbohydrate Polymers, 2021, 268, 118210.	10.2	40
107	Combined mechanical and enzymatic treatments for improving the Fock reactivity of hardwood kraft-based dissolving pulp. Cellulose, 2015, 22, 803-809.	4.9	39
108	Effects of Cellulose Nanofibers Filling and Palmitic Acid Emulsions Coating on the Physical Properties of Fish Gelatin Films. Food Biophysics, 2017, 12, 23-32.	3.0	38

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109	Diallyl dimethyl ammonium chloride-grafted cellulose filter membrane via ATRP for selective removal of anionic dye. Cellulose, 2018, 25, 7261-7275.	4.9	38
110	A New Kind of Nonconventional Luminogen Based on Aliphatic Polyhydroxyurethane and Its Potential Application in Ink-Free Anticounterfeiting Printing. ACS Applied Materials & Interfaces, 2020, 12, 11005-11015.	8.0	38
111	Sustainable and Biodegradable Copolymers from SO₂ and Renewable Eugenol: A Novel Urea Fertilizer Coating Material with Superio Slow Release Performance. Macromolecules, 2020, 53, 936-945.	4.8	38
112	Non-Wood Fibers: Relationships of Fiber Properties with Pulp Properties. ACS Omega, 2021, 6, 21613-21622.	3.5	38
113	Conductive regenerated cellulose film as counter electrode for efficient dye-sensitized solar cells. Cellulose, 2018, 25, 5113-5122.	4.9	37
114	A bioinspired gallol-functionalized collagen as wet-tissue adhesive for biomedical applications. Chemical Engineering Journal, 2021, 417, 127962.	12.7	37
115	Self-Healing Cellulose Nanocrystals-Containing Gels via Reshuffling of Thiuram Disulfide Bonds. Polymers, 2018, 10, 1392.	4.5	36
116	Nano-Cellulose/MOF Derived Carbon Doped CuO/Fe3O4 Nanocomposite as High Efficient Catalyst for Organic Pollutant Remedy. Nanomaterials, 2019, 9, 277.	4.1	36
117	Improvement of high-yield pulp properties by using a small amount of bleached wheat straw pulp. Bioresource Technology, 2011, 102, 2829-2833.	9.6	35
118	Using carboxylated cellulose nanofibers to enhance mechanical and barrier properties of collagen fiber film by electrostatic interaction. Journal of the Science of Food and Agriculture, 2018, 98, 3089-3097.	3.5	35
119	Stabilization of Pickering emulsions with cellulose nanofibers derived from oil palm fruit bunch. Cellulose, 2020, 27, 839-851.	4.9	35
120	Conductive Regenerated Cellulose Film and Its Electronic Devices â€“ A Review. Carbohydrate Polymers, 2020, 250, 116969.	10.2	35
121	A facile method for in situ fabrication of silica/cellulose aerogels and their application in CO2 capture. Carbohydrate Polymers, 2020, 236, 116079.	10.2	35
122	A tough organohydrogel-based multiresponsive sensor for a triboelectric nanogenerator and supercapacitor toward wearable intelligent devices. Journal of Materials Chemistry A, 2022, 10, 12092-12103.	10.3	35
123	Lignin-containing cellulose nanocrystals/sodium alginate beads as highly effective adsorbents for cationic organic dyes. International Journal of Biological Macromolecules, 2019, 139, 640-646.	7.5	34
124	Mild One-Pot Lignocellulose Fractionation Based on Acid-Catalyzed Biphasic Water/Phenol System to Enhance Componentsâ€™ Processability. ACS Sustainable Chemistry and Engineering, 2020, 8, 2772-2782.	6.7	34
125	Aqueous Dispersion of Carbon Fibers and Expanded Graphite Stabilized from the Addition of Cellulose Nanocrystals to Produce Highly Conductive Cellulose Composites. ACS Sustainable Chemistry and Engineering, 2018, 6, 3291-3298.	6.7	33
126	Ultra-low pressure cellulose-based nanofiltration membrane fabricated on layer-by-layer assembly for efficient sodium chloride removal. Carbohydrate Polymers, 2021, 255, 117352.	10.2	33

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127	Fabrication of lignin nanospheres by emulsification in a binary Î³-valerolactone/glycerol system and their application as a bifunctional reducer and carrier for Pd nanoparticles with enhanced catalytic activity. Green Chemistry, 2020, 22, 8594-8603.	9.0	32
128	Chitosan-based Polymer Matrix for Pharmaceutical Excipients and Drug Delivery. Current Medicinal Chemistry, 2019, 26, 2502-2513.	2.4	32
129	Design of Fe³⁺-Rich, High-Conductivity Lignin Hydrogels for Supercapacitor and Sensor Applications. Biomacromolecules, 2022, 23, 766-778.	5.4	32
130	Adsorption of Lignocelluloses Dissolved in Prehydrolysis Liquor of Kraft-Based Dissolving Pulp Process on Oxidized Activated Carbons. Industrial & Engineering Chemistry Research, 2011, 50, 11706-11711.	3.7	31
131	Synthesis of mesoporous Î±-Fe2O3 via solâ€“gel methods using cellulose nano-crystals (CNC) as template and its photo-catalytic properties. Materials Letters, 2015, 159, 218-220.	2.6	31
132	A cellulose-based nanofiltration membrane with a stable three-layer structure for the treatment of drinking water. Cellulose, 2020, 27, 8237-8253.	4.9	31
133	Improving enzymatic hydrolysis of mechanically refined poplar branches with assistance of hydrothermal and Fenton pretreatment. Bioresource Technology, 2020, 316, 123920.	9.6	31
134	An oriented Fe3+-regulated lignin-based hydrogel with desired softness, conductivity, stretchability, and asymmetric adhesiveness towards anti-interference pressure sensors. International Journal of Biological Macromolecules, 2021, 184, 282-288.	7.5	31
135	Development of poly(acrylic acid)/nanofibrillated cellulose superabsorbent composites by ultraviolet light induced polymerization. Cellulose, 2015, 22, 2499-2506.	4.9	30
136	A thin and flexible solid electrolyte templated by controllable porous nanocomposites toward extremely high performance all-solid-state lithium-ion batteries. Chemical Engineering Journal, 2021, 425, 130632.	12.7	30
137	Fractionation and cellulase treatment for enhancing the properties of kraft-based dissolving pulp. Bioresource Technology, 2017, 224, 439-444.	9.6	29
138	Super-stable, solvent-resistant and uniform lignin nanorods and nanospheres with a high yield in a mild and facile process. Green Chemistry, 2020, 22, 8734-8744.	9.0	29
139	Integrating phosphotungstic acid-assisted prerefining with cellulase treatment for enhancing the reactivity of kraft-based dissolving pulp. Bioresource Technology, 2021, 320, 124283.	9.6	29
140	Fabrication of high value cellulose nanofibers@Ni foam by non carbonization: various application developed during the preparation. Cellulose, 2021, 28, 1455-1468.	4.9	29
141	Chitosan-Nanocellulose Composites for Regenerative Medicine Applications. Current Medicinal Chemistry, 2020, 27, 4584-4592.	2.4	29
142	Dialdehyde modified cellulose nanofibers enhanced the physical properties of decorative paper impregnated by aldehyde-free adhesive. Carbohydrate Polymers, 2020, 250, 116941.	10.2	28
143	Efficient Fractionation of Corn Stover for Biorefinery Using a Sustainable Pathway. ACS Sustainable Chemistry and Engineering, 2020, 8, 3454-3464.	6.7	28
144	Adhesive, Antibacterial, Conductive, Anti-UV, Self-Healing, and Tough Collagen-Based Hydrogels from a Pyrogallol-Ag Self-Catalysis System. ACS Applied Materials & Interfaces, 2022, 14, 8728-8742.	8.0	28

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145	C-nanocoated ZnO by TEMPO-oxidized cellulose templating for improved photocatalytic performance. Carbohydrate Polymers, 2020, 235, 115958.	10.2	27
146	Preparation of lignosulfonate ionic hydrogels for supercapacitors, sensors and dye adsorbent applications. International Journal of Biological Macromolecules, 2021, 187, 189-199.	7.5	27
147	Lime Treatment of Prehydrolysis Liquor from the Kraft-Based Dissolving Pulp Production Process. Industrial & Engineering Chemistry Research, 2012, 51, 662-667.	3.7	26
148	Imparting Cellulosic Paper of High Conductivity by Surface Coating of Dispersed Graphite. Industrial & Engineering Chemistry Research, 2014, 53, 10119-10124.	3.7	26
149	A three dimensional interconnected Li7La3Zr2O12 framework composite solid electrolyte utilizing lignosulfonate/ cellulose nanofiber bio-template for high performance lithium ion batteries. Journal of Power Sources, 2020, 477, 228752.	7.8	26
150	High efficiency pyrolysis of used cigarette filters for ester-rich bio-oil through microwave-assisted heating. Journal of Cleaner Production, 2020, 257, 120596.	9.3	26
151	Further Understanding on the Cationic Demand of Dissolved Substances During Peroxide Bleaching of a Spruce TMP. Journal of Wood Chemistry and Technology, 2005, 24, 153-168.	1.7	25
152	Fiber Quality Analysis: OpTest Fiber Quality Analyzer versus L&W Fiber Tester. Industrial & Engineering Chemistry Research, 2011, 50, 12572-12578.	3.7	25
153	Cellulase pretreatment for enhancing cold caustic extraction-based separation of hemicelluloses and cellulose from cellulosic fibers. Bioresource Technology, 2018, 251, 1-6.	9.6	25
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