Qinglin Wu

List of Publications by Citations

161 papers	9,207 citations	53 h-index	92 g-index
167 ext. papers	11,043 ext. citations	6.7 avg, IF	6.68 L-index

#	Paper	IF	Citations
161	Self-assembling behavior of cellulose nanoparticles during freeze-drying: effect of suspension concentration, particle size, crystal structure, and surface charge. *Biomacromolecules*, **2013**, 14, 1529-40	6.9	312
160	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 27987-28002	9.5	296
159	Cellulose Nanoparticles: Structure–Morphology–Rheology Relationships. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 821-832	8.3	268
158	Electrospun bio-nanocomposite scaffolds for bone tissue engineering by cellulose nanocrystals reinforcing maleic anhydride grafted PLA. *ACS Applied Materials & Interfaces*, **2013**, 5, 3847-54	9.5	254
157	Electrospun polyethylene oxide/cellulose nanocrystal composite nanofibrous mats with homogeneous and heterogeneous microstructures. *Biomacromolecules*, **2011**, 12, 2617-25	6.9	238
156	Preparation and properties of recycled HDPE/natural fiber composites. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 1664-1674	8.4	237
155	Cellulose nanoparticles as modifiers for rheology and fluid loss in bentonite water-based fluids. *ACS Applied Materials & Interfaces*, **2015**, 7, 5006-16	9.5	232
154	Starch composites reinforced by bamboo cellulosic crystals. *Bioresource Technology*, **2010**, 101, 2529-36	11	230
153	Application of rod-shaped cellulose nanocrystals in polyacrylamide hydrogels. *Journal of Colloid and Interface Science*, **2011**, 353, 116-23	9.3	229
152	Fabrication and properties of transparent polymethylmethacrylate/cellulose nanocrystals composites. *Bioresource Technology*, **2010**, 101, 5685-92	11	227
151	Adsorption kinetic and equilibrium studies for methylene blue dye by partially hydrolyzed polyacrylamide/cellulose nanocrystal nanocomposite hydrogels. *Chemical Engineering Journal*, **2014**, 251, 17-24	14.7	220
150	Transitional properties of starch colloid with particle size reduction from micro- to nanometer. *Journal of Colloid and Interface Science*, **2009**, 339, 117-24	9.3	203
149	A self-healable and highly flexible supercapacitor integrated by dynamically cross-linked electro-conductive hydrogels based on nanocellulose-templated carbon nanotubes embedded in a viscoelastic polymer network. *Carbon*, **2019**, 149, 1-18	10.4	188
148	Wood-fiber/high-density-polyethylene composites: Coupling agent performance. *Journal of Applied Polymer Science*, **2005**, 96, 93-102	2.9	184
147	A novel polyacrylamide nanocomposite hydrogel reinforced with natural chitosan nanofibers. *Colloids and Surfaces B: Biointerfaces*, **2011**, 84, 155-62	6	180
146	Rice straw fiber-reinforced high-density polyethylene composite: Effect of fiber type and loading. *Industrial Crops and Products*, **2008**, 28, 63-72	5.9	173
145	Structure and rheology of nanocrystalline cellulose. *Carbohydrate Polymers*, **2011**, 84, 316-322	10.3	166

144	Effect of high-pressure homogenization on particle size and film properties of soy protein isolate. *Industrial Crops and Products*, **2013**, 43, 538-544	5.9	162
143	Mechanical properties and in vitro degradation of electrospun bio-nanocomposite mats from PLA and cellulose nanocrystals. *Carbohydrate Polymers*, **2012**, 90, 301-8	10.3	162
142	High-water-content mouldable polyvinyl alcohol-borax hydrogels reinforced by well-dispersed cellulose nanoparticles: dynamic rheological properties and hydrogel formation mechanism. *Carbohydrate Polymers*, **2014**, 102, 306-16	10.3	161
141	Comparative properties of cellulose nano-crystals from native and mercerized cotton fibers. *Cellulose*, **2012**, 19, 1173-1187	5.5	147
140	Influence of nanoclay on properties of HDPE/wood composites. *Journal of Applied Polymer Science*, **2007**, 106, 3958-3966	2.9	133
139	Characterization of cellulose II nanoparticles regenerated from 1-butyl-3-methylimidazolium chloride. *Carbohydrate Polymers*, **2013**, 94, 773-81	10.3	130
138	Nanocellulose-templated assembly of polyaniline in natural rubber-based hybrid elastomers toward flexible electronic conductors. *Industrial Crops and Products*, **2019**, 128, 94-107	5.9	124
137	Cellulose Nanocrystals and Polyanionic Cellulose as Additives in Bentonite Water-Based Drilling Fluids: Rheological Modeling and Filtration Mechanisms. *Industrial & Engineering Chemistry Research*, **2016**, 55, 133-143	3.9	112
136	An intrinsically self-healing and biocompatible electroconductive hydrogel based on nanostructured nanocellulose-polyaniline complexes embedded in a viscoelastic polymer network towards flexible conductors and electrodes. *Electrochimica Acta*, **2019**, 318, 660-672	6.7	101
135	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. *Cellulose*, **2017**, 24, 4433-4448	5.5	101
134	Electrospun Core-Shell Nanofibrous Membranes with Nanocellulose-Stabilized Carbon Nanotubes for Use as High-Performance Flexible Supercapacitor Electrodes with Enhanced Water Resistance, Thermal Stability, and Mechanical Toughness. *ACS Applied Materials & Interfaces*, **2019**, 11, 44624-44635	9.5	99
133	Effects of nanocellulose on sodium alginate/polyacrylamide hydrogel: Mechanical properties and adsorption-desorption capacities. *Carbohydrate Polymers*, **2019**, 206, 289-301	10.3	99
132	Characterization of cellulose I/II hybrid fibers isolated from energycane bagasse during the delignification process: Morphology, crystallinity and percentage estimation. *Carbohydrate Polymers*, **2015**, 133, 438-47	10.3	95
131	Facile preparation of mouldable polyvinyl alcohol-borax hydrogels reinforced by well-dispersed cellulose nanoparticles: physical, viscoelastic and mechanical properties. *Cellulose*, **2013**, 20, 2947-2958	5.5	95
130	Effect of a novel clay/silica nanocomposite on water-based drilling fluids: Improvements in rheological and filtration properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 555, 339-350	5.1	93
129	Cellulose nanofibers reinforced sodium alginate-polyvinyl alcohol hydrogels: Core-shell structure formation and property characterization. *Carbohydrate Polymers*, **2016**, 147, 155-164	10.3	90
128	Comparison of highly transparent all-cellulose nanopaper prepared using sulfuric acid and TEMPO-mediated oxidation methods. *Cellulose*, **2015**, 22, 1123-1133	5.5	82
127	Maleated wood-fiber/high-density-polyethylene composites: Coupling mechanisms and interfacial characterization. *Composite Interfaces*, **2005**, 12, 125-140	2.3	80

126	Preparation and Properties of Electrospun Poly (Vinyl Pyrrolidone)/Cellulose Nanocrystal/Silver Nanoparticle Composite Fibers. *Materials*, **2016**, 9,	3.5	80
125	Preparation of highly charged cellulose nanofibrils using high-pressure homogenization coupled with strong acid hydrolysis pretreatments. *Carbohydrate Polymers*, **2016**, 136, 485-92	10.3	77
124	A stretchable, self-healing conductive hydrogels based on nanocellulose supported graphene towards wearable monitoring of human motion. *Carbohydrate Polymers*, **2020**, 250, 116905	10.3	76
123	Highly Stretchable and Self-Healing Strain Sensors Based on Nanocellulose-Supported Graphene Dispersed in Electro-Conductive Hydrogels. *Nanomaterials*, **2019**, 9,	5.4	75
122	Cellulose fibers isolated from energycane bagasse using alkaline and sodium chlorite treatments: Structural, chemical and thermal properties. *Industrial Crops and Products*, **2015**, 76, 355-363	5.9	70
121	Mechanical, thermal expansion, and flammability properties of co-extruded wood polymer composites with basalt fiber reinforced shells. *Materials & Design*, **2014**, 60, 334-342		66
120	Water-based bentonite drilling fluids modified by novel biopolymer for minimizing fluid loss and formation damage. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 507, 58-66	5.1	65
119	Cationic surface modification of cellulose nanocrystals: Toward tailoring dispersion and interface in carboxymethyl cellulose films. *Polymer*, **2016**, 107, 200-210	3.9	60
118	High Density Polyethylene Composites Reinforced with Hybrid Inorganic Fillers: Morphology, Mechanical and Thermal Expansion Performance. *Materials*, **2013**, 6, 4122-4138	3.5	60
117	Dynamic rheology studies of in situ polymerization process of polyacrylamide□cellulose nanocrystal composite hydrogels. *Colloid and Polymer Science*, **2011**, 289, 247-255	2.4	60
116	Wood plastic composites based on microfibrillar blends of high density polyethylene/poly(ethylene terephthalate). *Bioresource Technology*, **2010**, 101, 3665-71	11	60
115	Soy Protein Isolate As Fluid Loss Additive in Bentonite-Water-Based Drilling Fluids. *ACS Applied Materials & Interfaces*, **2015**, 7, 24799-809	9.5	59
114	Enhancing mechanical properties of poly(lactic acid) through its in-situ crosslinking with maleic anhydride-modified cellulose nanocrystals from cottonseed hulls. *Industrial Crops and Products*, **2018**, 112, 449-459	5.9	58
113	Nanocellulose films with combined cellulose nanofibers and nanocrystals: tailored thermal, optical and mechanical properties. *Cellulose*, **2018**, 25, 1103-1115	5.5	57
112	Rheology, curing temperature and mechanical performance of oil well cement: Combined effect of cellulose nanofibers and graphene nano-platelets. *Materials and Design*, **2017**, 114, 92-101	8.1	56
111	Performance of low solid bentonite drilling fluids modified by cellulose nanoparticles. *Journal of Natural Gas Science and Engineering*, **2016**, 34, 1403-1411	4.6	55
110	A facile approach to fabricate porous nanocomposite gels based on partially hydrolyzed polyacrylamide and cellulose nanocrystals for adsorbing methylene blue at low concentrations. *Journal of Hazardous Materials*, **2013**, 263 Pt 2, 334-41	12.8	54
109	pH-Responsive Water-Based Drilling Fluids Containing Bentonite and Chitin Nanocrystals. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3783-3795	8.3	53

108	UV-initiated crosslinking of electrospun poly(ethylene oxide) nanofibers with pentaerythritol triacrylate: Effect of irradiation time and incorporated cellulose nanocrystals. *Carbohydrate Polymers*, **2012**, 87, 1779-1786	10.3	51
107	The influences of fiber feature and polymer melt index on mechanical properties of sugarcane fiber/polymer composites. *Journal of Applied Polymer Science*, **2006**, 102, 5607-5619	2.9	51
106	A Skin-Inspired Stretchable, Self-Healing and Electro-Conductive Hydrogel with A Synergistic Triple Network for Wearable Strain Sensors Applied in Human-Motion Detection. *Nanomaterials*, **2019**, 9,	5.4	50
105	Self-Healable Electro-Conductive Hydrogels Based on Core-Shell Structured Nanocellulose/Carbon Nanotubes Hybrids for Use as Flexible Supercapacitors. *Nanomaterials*, **2020**, 10,	5.4	49
104	Transitional Properties of Cotton Fibers from Cellulose I to Cellulose II Structure. *BioResources*, **2013**, 8,	1.3	48
103	Morphological influence of cellulose nanoparticles (CNs) from cottonseed hulls on rheological properties of polyvinyl alcohol/CN suspensions. *Carbohydrate Polymers*, **2016**, 153, 445-454	10.3	45
102	The influence of grafted cellulose nanofibers and postextrusion annealing treatment on selected properties of poly(lactic acid) filaments for 3D printing. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 847-855	2.6	44
101	Cellulose Nanofibers as a Modifier for Rheology, Curing and Mechanical Performance of Oil Well Cement. *Scientific Reports*, **2016**, 6, 31654	4.9	44
100	Using Cellulose Nanocrystals as a Sustainable Additive to Enhance Hydrophilicity, Mechanical and Thermal Properties of Poly(vinylidene fluoride)/Poly(methyl methacrylate) Blend. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 574-582	8.3	44
99	Mechanical and thermal properties of toluene diisocyanate-modified cellulose nanocrystal nanocomposites using semi-crystalline poly(lactic acid) as a base matrix. *RSC Advances*, **2016**, 6, 73879-73886	3.7	42
98	Physiochemical, optical and mechanical properties of poly(lactic acid) nanocomposites filled with toluene diisocyanate grafted cellulose nanocrystals. *RSC Advances*, **2016**, 6, 9438-9445	3.7	42
97	Rheological Aspects of Cellulose Nanomaterials: Governing Factors and Emerging Applications. *Advanced Materials*, **2021**, 33, e2006052	24	42
96	Mechanical and physical properties of core–shell structured wood plastic composites: Effect of shells with hybrid mineral and wood fillers. *Composites Part B: Engineering*, **2013**, 45, 1040-1048	10	41
95	Surface-Chemistry-Tuned Cellulose Nanocrystals in a Bentonite Suspension for Water-Based Drilling Fluids. *ACS Applied Nano Materials*, **2018**, 1, 7039-7051	5.6	41
94	Highly viscoelastic, stretchable, conductive, and self-healing strain sensors based on cellulose nanofiber-reinforced polyacrylic acid hydrogel. *Cellulose*, **2021**, 28, 4295-4311	5.5	40
93	Structural variations of cotton cellulose nanocrystals from deep eutectic solvent treatment: micro and nano scale. *Cellulose*, **2019**, 26, 861-876	5.5	39
92	Highly stretchable and self-healing cellulose nanofiber-mediated conductive hydrogel towards strain sensing application. *Journal of Colloid and Interface Science*, **2021**, 597, 171-181	9.3	38
91	Coextruded polyethylene and wood-flour composite: Effect of shell thickness, wood loading, and core quality. *Journal of Applied Polymer Science*, **2010**, 118, 3594-3601	2.9	36

90	Thermoresponsive Copolymer Poly(N-Vinylcaprolactam) Grafted Cellulose Nanocrystals: Synthesis, Structure, and Properties. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7439-7447	8.3	35
89	Effect of Acid Hydrolysis Conditions on the Properties of Cellulose Nanoparticle-Reinforced Polymethylmethacrylate Composites. *Materials*, **2013**, 7, 16-29	3.5	34
88	Grafting polycaprolactone diol onto cellulose nanocrystals via click chemistry: Enhancing thermal stability and hydrophobic property. *Carbohydrate Polymers*, **2018**, 189, 331-341	10.3	33
87	Phase structure and properties of poly(ethylene terephthalate)/high-density polyethylene based on recycled materials. *Journal of Applied Polymer Science*, **2009**, 113, 1710-1719	2.9	31
86	Adsorption of Cu2+ ions with poly(N-isopropylacrylamide-co-methacrylic acid) micro/nanoparticles. *Journal of Applied Polymer Science*, **2008**, 109, 3470-3476	2.9	30
85	Investigation of Amphiphilic Polypeptoid-Functionalized Halloysite Nanotubes as Emulsion Stabilizer for Oil Spill Remediation. *ACS Applied Materials & Interfaces*, **2019**, 11, 27944-27953	9.5	29
84	Preparation of temperature- and pH-sensitive, stimuli-responsive poly(N-isopropylacrylamide-co-methacrylic acid) nanoparticles. *Journal of Applied Polymer Science*, **2008**, 108, 2226-2232	2.9	29
83	Highly recyclable and super-tough hydrogel mediated by dual-functional TiO nanoparticles toward efficient photodegradation of organic water pollutants. *Journal of Colloid and Interface Science*, **2020**, 564, 99-112	9.3	29
82	Structure and thermal properties of tar from gasification of agricultural crop residue. *Journal of Thermal Analysis and Calorimetry*, **2015**, 119, 27-35	4.1	28
81	Nanotechnology in Agriculture. *ACS Symposium Series*, **2016**, 233-242	0.4	28
80	Poly(vinylidene fluoride)/cellulose nanocrystals composites: rheological, hydrophilicity, thermal and mechanical properties. *Cellulose*, **2015**, 22, 2431-2441	5.5	28
79	Chitosan colloidal suspension composed of mechanically disassembled nanofibers. *Journal of Colloid and Interface Science*, **2011**, 354, 637-43	9.3	28
78	Thermal decomposition of fire-retarded wood flour/polypropylene composites. *Journal of Thermal Analysis and Calorimetry*, **2016**, 123, 309-318	4.1	27
77	3D printed poly(lactic acid) composites with grafted cellulose nanofibers: Effect of nanofiber and post-fabrication annealing treatment on composite flexural properties. *Additive Manufacturing*, **2019**, 28, 621-628	6.1	27
76	Synthesis-Free Phase-Selective Gelator for Oil-Spill Remediation. *ACS Applied Materials & Interfaces*, **2017**, 9, 33549-33553	9.5	27
75	Highly stable H2V3O8/Mxene cathode for Zn-ion batteries with superior rate performance and long lifespan. *Chemical Engineering Journal*, **2021**, 405, 126737	14.7	26
74	Preparation and properties of recycled HDPE/clay hybrids. *Journal of Applied Polymer Science*, **2007**, 103, 3056-3063	2.9	25
73	ZIF-67@Cellulose nanofiber hybrid membrane with controlled porosity for use as Li-ion battery separator. *Journal of Energy Chemistry*, **2021**, 52, 170-180	12	25

72	TEMPO-oxidized cellulose nanofibers/polyacrylamide hybrid hydrogel with intrinsic self-recovery and shape memory properties. *Cellulose*, **2021**, 28, 1469-1488	5.5	25
71	Molecular association of adsorbed water with lignocellulosic materials examined by micro-FTIR spectroscopy. *International Journal of Biological Macromolecules*, **2016**, 83, 117-25	7.9	24
70	Thermoresponsive poly(poly(ethylene glycol) methylacrylate)s grafted cellulose nanocrystals through SI-ATRP polymerization. *Cellulose*, **2017**, 24, 4189-4203	5.5	24
69	High density polyethylene and poly(ethylene terephthalate) in situ sub-micro-fibril blends as a matrix for wood plastic composites. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 73-78	8.4	24
68	Overcoming Salt Contamination of Bentonite Water-Based Drilling Fluids with Blended Dual-Functionalized Cellulose Nanocrystals. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11569-11578	8.3	24
67	Production of lignin-containing cellulose nanofibers using deep eutectic solvents for UV-absorbing polymer reinforcement. *Carbohydrate Polymers*, **2020**, 246, 116548	10.3	23
66	Assembly of Polyacrylamide-Sodium Alginate-Based Organic-Inorganic Hydrogel with Mechanical and Adsorption Properties. *Polymers*, **2019**, 11,	4.5	23
65	**2013**,		23
64	Recent Development in Applications of Cellulose Nanocrystals for Advanced Polymer-Based Nanocomposites by Novel Fabrication Strategies **2012**,		23
63	A stretchable solid-state zinc ion battery based on a cellulose nanofiber–polyacrylamide hydrogel electrolyte and a Mg0.23V2O5·1.0H2O cathode. *Journal of Materials Chemistry A*, **2020**, 8, 18327-18337	13	22
62	Cellulose Nanocrystals (CNCs) from Corn Stalk: Activation Energy Analysis. *Materials*, **2017**, 10,	3.5	20
61	Electrospun Cellulose Nanocrystals/Chitosan/Polyvinyl Alcohol Nanofibrous Films and their Exploration to Metal Ions Adsorption. *Polymers*, **2018**, 10,	4.5	20
60	Fabricating electrospun nanofibers with antimicrobial capability: A facile route to recycle biomass tar. *Fuel*, **2015**, 150, 123-130	7.1	19
59	Zeolitic imidazolate framework-cellulose nanofiber hybrid membrane as Li-Ion battery separator: Basic membrane property and battery performance. *Journal of Power Sources*, **2020**, 454, 227878	8.9	19
58	Thermal degradation and flammability properties of multilayer structured wood fiber and polypropylene composites with fire retardants. *RSC Advances*, **2016**, 6, 13890-13897	3.7	19
57	THERMAL EXPANSION BEHAVIOR OF CO-EXTRUDED WOOD-PLASTIC COMPOSITES WITH GLASS-FIBER REINFORCED SHELLS. *BioResources*, **2012**, 7,	1.3	19
56	Rice straw fiber reinforced high density polyethylene composite: Effect of coupled compatibilizating and toughening treatment. *Journal of Applied Polymer Science*, **2011**, 119, 2214-2222	2.9	19
55	A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO2 Cathode and Polyacrylamide–Chitin Nanofiber Hydrogel Electrolyte. *Advanced Energy Materials*, **2021**, 11, 2003902	21.8	19

54	Surface wetting behavior of nanocellulose-based composite films. *Cellulose*, **2018**, 25, 5071-5087	5.5	18
53	Asymmetric flow field-flow fractionation with multiangle light scattering detection for characterization of cellulose nanocrystals. *Biomacromolecules*, **2012**, 13, 2671-9	6.9	18
52	Self-Recovery, Fatigue-Resistant, and Multifunctional Sensor Assembled by a Nanocellulose/Carbon Nanotube Nanocomplex-Mediated Hydrogel. *ACS Applied Materials & Interfaces*, **2021**, 13, 50281-50297	9.5	18
51	Effects of cellulose/salicylaldehyde thiosemicarbazone complexes on PVA based hydrogels: Portable, reusable, and high-precision luminescence sensing of Cu. *Journal of Hazardous Materials*, **2021**, 401, 123798	12.8	18
50	Layered ferric vanadate nanosheets as a high-rate NH4+ storage electrode. *Electrochimica Acta*, **2020**, 360, 137008	6.7	17
49	Water-Redispersible Cellulose Nanofiber and Polyanionic Cellulose Hybrids for High-Performance Water-Based Drilling Fluids. *Industrial & Engineering Chemistry Research*, **2020**, 59, 14352-14363	3.9	17
48	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. *Nanomaterials*, **2019**, 9,	5.4	16
47	Thermothickening Drilling Fluids Containing Bentonite and Dual-Functionalized Cellulose Nanocrystals. *Energy & Fuels*, **2020**, 34, 8206-8215	4.1	16
46	The influence of double-layered distribution of fire retardants on the fire retardancy and mechanical properties of wood fiber polypropylene composites. *Construction and Building Materials* , **2020**, 242, 118047	6.7	16
45	Cellulose nanofibers from rapidly microwave-delignified energy cane bagasse and their application in drilling fluids as rheology and filtration modifiers. *Industrial Crops and Products*, **2020**, 150, 112378	5.9	15
44	Effect of Hybrid Talc-Basalt Fillers in the Shell Layer on Thermal and Mechanical Performance of Co-Extruded Wood Plastic Composites. *Materials*, **2015**, 8, 8510-8523	3.5	15
43	Effect of Fiber Type and Coupling Treatment on Properties of High-Density Polyethylene/Natural Fiber Composites. *BioResources*, **2013**, 8,	1.3	15
42	Influence of Cellulose Nanoparticles on Rheological Behavior of Oil Well Cement-Water Slurries. *Materials*, **2019**, 12,	3.5	15
41	Modeling diameter distributions of poly(N-isopropylacrylamide-co-methacrylic acid) nanoparticles. *Journal of Applied Polymer Science*, **2009**, 111, 2584-2589	2.9	14
40	Reusable and cross-linked cellulose nanofibrils aerogel for the removal of heavy metal ions. *Polymer Composites*, **2018**, 39, 4442-4451	3	14
39	The Effect of Chemical and High-Pressure Homogenization Treatment Conditions on the Morphology of Cellulose Nanoparticles. *Journal of Nanomaterials*, **2014**, 2014, 1-11	3.2	13
38	Carbonized cellulose nanofibers as dielectric heat sources for microwave annealing 3D printed PLA composite. *Composites Part B: Engineering*, **2020**, 184, 107640	10	13
37	Novel alginate-cellulose nanofiber-poly(vinyl alcohol) hydrogels for carrying and delivering nitrogen, phosphorus and potassium chemicals. *International Journal of Biological Macromolecules*, **2021**, 172, 330-340	7.9	13

36	Thermally Tunable Pickering Emulsions Stabilized by Carbon-Dot-Incorporated Core-Shell Nanospheres with Fluorescence "On-Off" Behavior. *Langmuir*, **2018**, 34, 273-283	4	13
35	Enhanced Antibacterial Performance and Cytocompatibility of Silver Nanoparticles Stabilized by Cellulose Nanocrystal Grafted with Chito-Oligosaccharides. *Materials*, **2018**, 11,	3.5	11
34	Comparative performance of bio-based coatings formulated with cellulose, chitin, and chitosan nanomaterials suitable for fruit preservation. *Carbohydrate Polymers*, **2021**, 259, 117764	10.3	11
33	Mechanically adaptive nanocomposites with cellulose nanocrystals: Strain-field mapping with digital image correlation. *Carbohydrate Polymers*, **2019**, 211, 11-21	10.3	10
32	Surface modified cellulose nanocrystals for tailoring interfacial miscibility and microphase separation of polymer nanocomposites. *Cellulose*, **2019**, 26, 4301-4312	5.5	10
31	3D Printed Ti 3 C 2 T x MXene/Cellulose Nanofiber Architectures for Solid-State Supercapacitors: Ink Rheology, 3D Printability, and Electrochemical Performance. *Advanced Functional Materials*, **2022**, 32, 2109593	15.6	10
30	Experimental and numerical analysis of the sound insulation property of wood plastic composites (WPCs) filled with precipitated CaCO3. *Holzforschung*, **2013**, 67, 301-306	2	9
29	Inherently Conductive Poly(dimethylsiloxane) Elastomers Synergistically Mediated by Nanocellulose/Carbon Nanotube Nanohybrids toward Highly Sensitive, Stretchable, and Durable Strain Sensors. *ACS Applied Materials & Interfaces*, **2021**,	9.5	9
28	Lignin-containing cellulose nanofibers with gradient lignin content obtained from cotton gin motes and cotton gin trash. *Cellulose*, **2021**, 28, 757-773	5.5	9
27	Synergistic influence of halogenated flame retardants and nanoclay on flame performance of high density polyethylene and wood flour composites. *RSC Advances*, **2017**, 7, 24895-24902	3.7	8
26	Thermal degradation and flammability behavior of fire-retarded wood flour/polypropylene composites. *Journal of Fire Sciences*, **2016**, 34, 226-239	1.5	8
25	Cellulose nanocrystal supported superparamagnetic nanorods with aminated silica shell: synthesis and properties. *Journal of Materials Science*, **2017**, 52, 6432-6441	4.3	6
24	Construction of mechanically robust and recyclable photocatalytic hydrogel based on nanocellulose-supported CdS/MoS2/Montmorillonite hybrid for antibiotic degradation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 636, 128035	5.1	6
23	Cellulose Nanocrystal-Polyelectrolyte Hybrids for Bentonite Water-Based Drilling Fluids.. *ACS Applied Bio Materials*, **2020**, 3, 3015-3027	4.1	5
22	Effect of Nano-CaCO3 and Talc on Property and Weathering Performance of PP Composites. *International Journal of Polymer Science*, **2017**, 2017, 1-9	2.4	5
21	Comparative mechanical, fire-retarding, and morphological properties of high-density polyethylene/(wood flour) composites with different flame retardants. *Journal of Vinyl and Additive Technology*, **2018**, 24, 3-12	2	5
20	Mechanical and Thermal Properties of R-High Density Polyethylene Composites Reinforced with Wheat Straw Particleboard Dust and Basalt Fiber. *International Journal of Polymer Science*, **2018**, 2018, 1-10	2.4	5
19	Structural Transformation of Li-Excess Cathode Materials via Facile Preparation and Assembly of Sonication-Induced Colloidal Nanocrystals for Enhanced Lithium Storage Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 31181-31191	9.5	5

18	Fractal dimension analysis of void size in wood-strand composites based on X-ray computer tomography images. *Holzforschung*, **2013**, 67, 177-182	2	5
17	Bio-Composites Consisting of Cellulose Nanofibers and Na Montmorillonite Clay: Morphology and Performance Property. *Polymers*, **2020**, 12,	4.5	5
16	A cellulose nanofiber–polyacrylamide hydrogel based on a co-electrolyte system for solid-state zinc ion batteries to operate at extremely cold temperatures. *Journal of Materials Chemistry A*,	13	4
15	Electrospun Poly(Ethylene Oxide) Fibers Reinforced with Poly (Vinylpyrrolidone) Polymer and Cellulose Nanocrystals **2018**,		4
14	Recent advances in metal organic framework and cellulose nanomaterial composites. *Coordination Chemistry Reviews*, **2022**, 461, 214496	23.2	4
13	Sound Transmission Properties of Mineral-filled High-Density Polyethylene (HDPE) and Wood-HDPE Composites. *BioResources*, **2014**, 10,	1.3	3
12	Spider-web-inspired membrane reinforced with sulfhydryl-functionalized cellulose nanocrystals for oil/water separation.. *Carbohydrate Polymers*, **2022**, 282, 119049	10.3	3
11	Biofilter treatment of gas phase β-caryophyllene at an elevated temperature. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2018**, 53, 752-765	2.3	2
10	High-Density Polyethylene and Heat-Treated Bamboo Fiber Composites: Nonisothermal Crystallization Properties. *International Journal of Polymer Science*, **2015**, 2015, 1-7	2.4	2
9	Rapid Preparation of Cellulose Nanofibers from Energy Cane Bagasse and Their Application as Stabilizer and Rheological Modifiers in Magnetorheological Fluid. *ACS Sustainable Chemistry and Engineering*, **2020**,	8.3	1
8	Thermal Stability and Flame Resistance of the Coextruded Wood-Plastic Composites Containing Talc-Filled Plastic Shells. *International Journal of Polymer Science*, **2020**, 2020, 1-9	2.4	1
7	3D-printed wood-polylactic acid-thermoplastic starch composites: Performance features in relation to biodegradation treatment. *Journal of Applied Polymer Science*, **2021**, 138, 50914	2.9	1
6	Carbonized Cellulose Nanofibril with Individualized Fibrous Morphology: toward Multifunctional Applications in Polycaprolactone Conductive Composites.. *ACS Applied Bio Materials*, **2021**, 4, 5169-5179	4.1	1
5	Recent Advances in Extraction and Processing of Chitin Using Deep Eutectic Solvents. *Chemical Engineering Journal*, **2022**, 136953	14.7	1
4	Salt sensitivity of low solid content bentonite suspension as influenced by lignocellulosic nanomaterial and polyanionic cellulose. *MRS Communications*, **2021**, 11, 726	2.7	0
3	Rheological Properties of Lignocellulosic Nanomaterial Aqueous Suspensions as Influenced by Water-Soluble Biopolymer Additives. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 17049-17060	8.3	0
2	Lignin-containing cellulose nanofibers made with microwave-aid green solvent treatment for magnetic fluid stabilization. *Carbohydrate Polymers*, **2022**, 291, 119573	10.3	0
1	Natural Fiber and Plastic Composites **2013**, 237-285		