Orlando J Rojas

List of Publications by Year
in descending order

473 papers	30,643 citations	5558 82 h-index	7333 152 g-index
502 all docs	502 docs citations	502 times ranked	23747 citing authors

#	Article	IF	Citations
1	Cellulose Nanocrystals: Chemistry, Self-Assembly, and Applications. Chemical Reviews, 2010, 110, 3479-3500.	23.0	4,701
2	Developing fibrillated cellulose as a sustainable technological material. Nature, 2021, 590, 47-56.	13.7	711
3	Nanocellulose properties and applications in colloids and interfaces. Current Opinion in Colloid and Interface Science, 2014, 19, 383-396.	3.4	501
4	Advanced Materials through Assembly of Nanocelluloses. Advanced Materials, 2018, 30, e1703779.	11.1	493
5	Nanofiber Composites of Polyvinyl Alcohol and Cellulose Nanocrystals: Manufacture and Characterization. Biomacromolecules, 2010, 11, 674-681.	2.6	491
6	Antimicrobial wound dressing nanofiber mats from multicomponent (chitosan/silver-NPs/polyvinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.1	473
7	A comparative study of energy consumption and physical properties of microfibrillated cellulose produced by different processing methods. Cellulose, 2011, 18, 1097-1111.	2.4	469
8	Comprehensive elucidation of the effect of residual lignin on the physical, barrier, mechanical and surface properties of nanocellulose films. Green Chemistry, 2015, 17, 1853-1866.	4.6	380
9	Inhibitory effect of lignin during cellulose bioconversion: The effect of lignin chemistry on non-productive enzyme adsorption. Bioresource Technology, 2013, 133, 270-278.	4.8	316
10	Pickering emulsions stabilized by cellulose nanocrystals grafted with thermo-responsive polymer brushes. Journal of Colloid and Interface Science, 2012, 369, 202-209.	5.0	315
11	Porous N,P-doped carbon from coconut shells with high electrocatalytic activity for oxygen reduction: Alternative to Pt-C for alkaline fuel cells. Applied Catalysis B: Environmental, 2017, 204, 394-402.	10.8	294
12	The effect of chemical composition on microfibrillar cellulose films from wood pulps: water interactions and physical properties for packaging applications. Cellulose, 2010, 17, 835-848.	2.4	282
13	Advanced Biomassâ€Derived Electrocatalysts for the Oxygen Reduction Reaction. Advanced Materials, 2018, 30, e1703691.	11.1	274
14	Poly(<i>N</i>-isopropylacrylamide) Brushes Grafted from Cellulose Nanocrystals via Surface-Initiated Single-Electron Transfer Living Radical Polymerization. Biomacromolecules, 2010, 11, 2683-2691.	2.6	261
15	The effect of chemical composition on microfibrillar cellulose films from wood pulps: Mechanical processing and physical properties. Bioresource Technology, 2010, 101, 5961-5968.	4.8	253
16	Pickering emulsions by combining cellulose nanofibrils and nanocrystals: phase behavior and depletion stabilization. Green Chemistry, 2018, 20, 1571-1582.	4.6	243
17	Reinforcing Poly(Îµ-caprolactone) Nanofibers with Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2009, 1, 1996-2004.	4.0	235
18	Spherical lignin particles: a review on their sustainability and applications. Green Chemistry, 2020, 22, 2712-2733.	4.6	228

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19	Cellulose Nanofibril Film as a Piezoelectric Sensor Material. ACS Applied Materials & Interfaces, 2016, 8, 15607-15614.	4.0	219
20	Behavior of nanocelluloses at interfaces. Current Opinion in Colloid and Interface Science, 2017, 29, 83-95.	3.4	214
21	Bacterial cellulose produced by a new acid-resistant strain of Gluconacetobacter genus. Carbohydrate Polymers, 2012, 89, 1033-1037.	5.1	208
22	Effect of residual lignin and heteropolysaccharides in nanofibrillar cellulose and nanopaper from wood fibers. Cellulose, 2012, 19, 2179-2193.	2.4	196
23	Valorization of residual Empty Palm Fruit Bunch Fibers (EPFBF) by microfluidization: Production of nanofibrillated cellulose and EPFBF nanopaper. Bioresource Technology, 2012, 125, 249-255.	4.8	190
24	Oil-in-water Pickering emulsions via microfluidization with cellulose nanocrystals: 1. Formation and stability. Food Hydrocolloids, 2019, 96, 699-708.	5.6	190
25	Nanocellulose in Thin Films, Coatings, and Plies for Packaging Applications: A Review. BioResources, 2016, 12, 2143-2233.	0.5	189
26	Piezoelectric Effect of Cellulose Nanocrystals Thin Films. ACS Macro Letters, 2012, 1, 867-870.	2.3	185
27	Electrospun nanocomposites from polystyrene loaded with cellulose nanowhiskers. Journal of Applied Polymer Science, 2009, 113, 927-935.	1.3	182
28	High-Throughput Synthesis of Lignin Particles (âˆ¼30 nm to âˆ¼2 Î¼m) via Aerosol Flow Reactor: Size Fractionation and Utilization in Pickering Emulsions. ACS Applied Materials & Interfaces, 2016, 8, 23302-23310.	4.0	180
29	Modification of Cellulose Films by Adsorption of CMC and Chitosan for Controlled Attachment of Biomolecules. Biomacromolecules, 2011, 12, 4311-4318.	2.6	174
30	Nanocellulose/LiCl systems enable conductive and stretchable electrolyte hydrogels with tolerance to dehydration and extreme cold conditions. Chemical Engineering Journal, 2021, 408, 127306.	6.6	174
31	Lignin-Based Electrospun Nanofibers Reinforced with Cellulose Nanocrystals. Biomacromolecules, 2012, 13, 918-926.	2.6	171
32	Transformation of lignocellulosic biomass during torrefaction. Journal of Analytical and Applied Pyrolysis, 2013, 100, 199-206.	2.6	168
33	On the polymorphic and morphological changes of cellulose nanocrystals (CNC-I) upon mercerization and conversion to CNC-II. Carbohydrate Polymers, 2016, 143, 327-335.	5.1	160
34	Enzymatic Kinetics of Cellulose Hydrolysis:â€‰ A QCM-D Study. Langmuir, 2008, 24, 3880-3887.	1.6	158
35	Ambientâ€Dried Cellulose Nanofibril Aerogel Membranes with High Tensile Strength and Their Use for Aerosol Collection and Templates for Transparent, Flexible Devices. Advanced Functional Materials, 2015, 25, 6618-6626.	7.8	155
36	Cellulose Nanofibrils. Journal of Renewable Materials, 2013, 1, 195-211.	1.1	152

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37	PAPER CHEMISTRY: Approaching super-hydrophobicity from cellulosic materials: A Review. Nordic Pulp and Paper Research Journal, 2013, 28, 216-238.	0.3	150
38	Ultrathin film coatings of aligned cellulose nanocrystals from a convective-shear assembly system and their surface mechanical properties. Soft Matter, 2011, 7, 1957.	1.2	148
39	Mechanical deconstruction of lignocellulose cell walls and their enzymatic saccharification. Cellulose, 2013, 20, 807-818.	2.4	148
40	Enzymatic Hydrolysis of Native Cellulose Nanofibrils and Other Cellulose Model Films: Effect of Surface Structure. Langmuir, 2008, 24, 11592-11599.	1.6	144
41	Strength and Water Interactions of Cellulose I Filaments Wet-Spun from Cellulose Nanofibril Hydrogels. Scientific Reports, 2016, 6, 30695.	1.6	139
42	Effect of Moisture on Electrospun Nanofiber Composites of Poly(vinyl alcohol) and Cellulose Nanocrystals. Biomacromolecules, 2010, 11, 2471-2477.	2.6	138
43	Surface Functionalized Nanofibrillar Cellulose (NFC) Film as a Platform for Immunoassays and Diagnostics. Biointerphases, 2012, 7, 61.	0.6	138
44	Activated carbon from biochar: Influence of its physicochemical properties on the sorption characteristics of phenanthrene. Bioresource Technology, 2013, 149, 383-389.	4.8	138
45	Spinning of Cellulose Nanofibrils into Filaments: A Review. Industrial & Engineering Chemistry Research, 2017, 56, 8-19.	1.8	138
46	Nanocelluloseâ€“surfactant interactions. Current Opinion in Colloid and Interface Science, 2017, 29, 57-67.	3.4	134
47	Porous nanocellulose gels and foams: Breakthrough status in the development of scaffolds for tissue engineering. Materials Today, 2020, 37, 126-141.	8.3	134
48	Water-Resistant, Transparent Hybrid Nanopaper by Physical Cross-Linking with Chitosan. Biomacromolecules, 2015, 16, 1062-1071.	2.6	130
49	Effect of Polyelectrolyte Charge Density on the Adsorption and Desorption Behavior on Mica. Langmuir, 2002, 18, 1604-1612.	1.6	128
50	Cellulose Nanocrystal-Mediated Synthesis of Silver Nanoparticles: Role of Sulfate Groups in Nucleation Phenomena. Biomacromolecules, 2014, 15, 373-379.	2.6	128
51	Controlled release for crop and wood protection: Recent progress toward sustainable and safe nanostructured biocidal systems. Journal of Controlled Release, 2017, 262, 139-150.	4.8	123
52	Performance, combustion, and emissions in a diesel engine operated with fuel-in-water emulsions based on lignin. Applied Energy, 2015, 154, 851-861.	5.1	120
53	Adsorption and Assembly of Cellulosic and Lignin Colloids at Oil/Water Interfaces. Langmuir, 2019, 35, 571-588.	1.6	120
54	Modification of Cellulose Nanofibrils with Luminescent Carbon Dots. Biomacromolecules, 2014, 15, 876-881.	2.6	118

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55	High Internal Phase Oil-in-Water Pickering Emulsions Stabilized by Chitin Nanofibrils: 3D Structuring and Solid Foamâ€¨. ACS Applied Materials & Interfaces, 2020, 12, 11240-11251.	4.0	118
56	Plant Nanomaterials and Inspiration from Nature: Water Interactions and Hierarchically Structured Hydrogels. Advanced Materials, 2021, 33, e2001085.	11.1	117
57	Deconstruction and Reassembly of Renewable Polymers and Biocolloids into Next Generation Structured Materials. Chemical Reviews, 2021, 121, 14088-14188.	23.0	113
58	Lignin supracolloids synthesized from (W/O) microemulsions: use in the interfacial stabilization of Pickering systems and organic carriers for silver metal. Soft Matter, 2015, 11, 2046-2054.	1.2	111
59	Water vapor barrier properties of coated and filled microfibrillated cellulose composite films. BioResources, 2011, 6, 4370-4388.	0.5	110
60	The Effect of Salt Concentration on Adsorption of Low-Charge-Density Polyelectrolytes and Interactions between Polyelectrolyte-Coated Surfaces. Journal of Colloid and Interface Science, 1998, 205, 77-88.	5.0	107
61	Solid-State Synthesis of Metal Nanoparticles Supported on Cellulose Nanocrystals and Their Catalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 3974-3983.	3.2	106
62	Development of Langmuirâ˘Schaeffer Cellulose Nanocrystal Monolayers and Their Interfacial Behaviors. Langmuir, 2010, 26, 990-1001.	1.6	103
63	Formulation and Stabilization of Concentrated Edible Oil-in-Water Emulsions Based on Electrostatic Complexes of a Food-Grade Cationic Surfactant (Ethyl Lauroyl Arginate) and Cellulose Nanocrystals. Biomacromolecules, 2018, 19, 1674-1685.	2.6	103
64	All-Cellulose Composite Fibers Obtained by Electrospinning Dispersions of Cellulose Acetate and Cellulose Nanocrystals. Journal of Polymers and the Environment, 2012, 20, 1075-1083.	2.4	102
65	Nanochitin: Chemistry, Structure, Assembly, and Applications. Chemical Reviews, 2022, 122, 11604-11674.	23.0	102
66	Antibacterial activity of silver nanoparticles synthesized In-situ by solution spraying onto cellulose. Carbohydrate Polymers, 2016, 147, 500-508.	5.1	100
67	Photoluminescent Hybrids of Cellulose Nanocrystals and Carbon Quantum Dots as Cytocompatible Probes for <i>in Vitro</i> Bioimaging. Biomacromolecules, 2017, 18, 2045-2055.	2.6	100
68	Effect of Different Carbon Sources on Bacterial Nanocellulose Production and Structure Using the Low pH Resistant Strain Komagataeibacter Medellinensis. Materials, 2017, 10, 639.	1.3	98
69	Fabrication and characterization of bactericidal thiol-chitosan and chitosan iodoacetamide nanofibres. International Journal of Biological Macromolecules, 2017, 94, 96-105.	3.6	97
70	Self-Assembled Networks of Short and Long Chitin Nanoparticles for Oil/Water Interfacial Superstabilization. ACS Sustainable Chemistry and Engineering, 2019, 7, 6497-6511.	3.2	97
71	Superhydrophobic and Slippery Lubricant-Infused Flexible Transparent Nanocellulose Films by Photoinduced Thiolâ€“Ene Functionalization. ACS Applied Materials & Interfaces, 2016, 8, 34115-34122.	4.0	96
72	Techno-Economic Assessment, Scalability, and Applications of Aerosol Lignin Micro- and Nanoparticles. ACS Sustainable Chemistry and Engineering, 2018, 6, 11853-11868.	3.2	95

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73	New Opportunities in the Valorization of Technical Lignins. ChemSusChem, 2021, 14, 1016-1036.	3.6	94
74	Nanocellulose/bioactive glass cryogels as scaffolds for bone regeneration. Nanoscale, 2019, 11, 19842-19849.	2.8	93
75	Multifunctional lignin-based nanocomposites and nanohybrids. Green Chemistry, 2021, 23, 6698-6760.	4.6	93
76	Dispersion of cellulose crystallites by nonionic surfactants in a hydrophobic polymer matrix. Polymer Engineering and Science, 2009, 49, 2054-2061.	1.5	91
77	Conversion Economics of Forest Biomaterials: Risk and Financial Analysis of <scp>CNC</scp> Manufacturing. Biofuels, Bioproducts and Biorefining, 2017, 11, 682-700.	1.9	91
78	Oil-in-water Pickering emulsions via microfluidization with cellulose nanocrystals: 2. In vitro lipid digestion. Food Hydrocolloids, 2019, 96, 709-716.	5.6	89
79	Salt-Induced Depression of Lower Critical Solution Temperature in a Surface-Grafted Neutral Thermoresponsive Polymer. Macromolecular Rapid Communications, 2006, 27, 697-701.	2.0	86
80	Crosslinked PVA nanofibers reinforced with cellulose nanocrystals: Water interactions and thermomechanical properties. Journal of Applied Polymer Science, 2014, 131, .	1.3	86
81	Soy proteinâ€“nanocellulose composite aerogels. Cellulose, 2013, 20, 2417-2426.	2.4	85
82	Curdlan in fibers as carriers of tetracycline hydrochloride: Controlled release and antibacterial activity. Carbohydrate Polymers, 2016, 154, 194-203.	5.1	85
83	Lignin Changes after Steam Explosion and Laccase-Mediator Treatment of Eucalyptus Wood Chips. Journal of Agricultural and Food Chemistry, 2011, 59, 8761-8769.	2.4	84
84	Generic Method for Attaching Biomolecules via Avidinâ€“Biotin Complexes Immobilized on Films of Regenerated and Nanofibrillar Cellulose. Biomacromolecules, 2012, 13, 2802-2810.	2.6	83
85	Anomalousâ€Diffusionâ€Assisted Brightness in White Cellulose Nanofibril Membranes. Advanced Materials, 2018, 30, e1704050.	11.1	83
86	Biofabrication of multifunctional nanocellulosic 3D structures: a facile and customizable route. Materials Horizons, 2018, 5, 408-415.	6.4	81
87	Acetylated Nanocellulose for Single-Component Bioinks and Cell Proliferation on 3D-Printed Scaffolds. Biomacromolecules, 2019, 20, 2770-2778.	2.6	81
88	Spruce milled wood lignin: linear, branched or cross-linked?. Green Chemistry, 2020, 22, 3985-4001.	4.6	81
89	Clean and high-throughput production of silver nanoparticles mediated by soy protein via solid state synthesis. Journal of Cleaner Production, 2017, 144, 501-510.	4.6	77
90	Cellulose microâ€•and nanofibrils (CMNF) manufacturing â€•financial and risk assessment. Biofuels, Bioproducts and Biorefining, 2018, 12, 251-264.	1.9	77

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91	Foliage adhesion and interactions with particulate delivery systems for plant nanobionics and intelligent agriculture. Nano Today, 2021, 37, 101078.	6.2	77
92	Surface Interaction Forces of Cellulose Nanocrystals Grafted with Thermoresponsive Polymer Brushes. Biomacromolecules, 2011, 12, 2788-2796.	2.6	75
93	Dielectrophoresis of cellulose nanocrystals and alignment in ultrathin films by electric field-assisted shear assembly. Journal of Colloid and Interface Science, 2011, 363, 206-212.	5.0	75
94	Highly Transparent, Strong, and Flexible Films with Modified Cellulose Nanofiber Bearing UV Shielding Property. Biomacromolecules, 2018, 19, 4565-4575.	2.6	75
95	Three-Dimensional Printed Cell Culture Model Based on Spherical Colloidal Lignin Particles and Cellulose Nanofibril-Alginate Hydrogel. Biomacromolecules, 2020, 21, 1875-1885.	2.6	75
96	Interfacial Properties of Lignin-Based Electrospun Nanofibers and Films Reinforced with Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2012, 4, 6849-6856.	4.0	74
97	Comparative study of cellulosic components isolated from different Eucalyptus species. Cellulose, 2018, 25, 1011-1029.	2.4	74
98	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. Science Advances, 2021, 7, eabh3482.	4.7	74
99	Recent Innovations in Emulsion Science and Technology for Food Applications. Journal of Agricultural and Food Chemistry, 2021, 69, 8944-8963.	2.4	73
100	Low-value wood for sustainable high-performance structural materials. Nature Sustainability, 2022, 5, 628-635.	11.5	72
101	Black liquor lignin biodegradation by Trametes elegans. International Biodeterioration and Biodegradation, 2003, 52, 167-173.	1.9	71
102	On the Surface Interactions of Proteins with Lignin. ACS Applied Materials & Interfaces, 2013, 5, 199-206.	4.0	71
103	Supramolecular assemblies of lignin into nano- and microparticles. MRS Bulletin, 2017, 42, 371-378.	1.7	70
104	Milk fat globules and associated membranes: Colloidal properties and processing effects. Advances in Colloid and Interface Science, 2017, 245, 92-101.	7.0	70
105	Nanochitin-stabilized pickering emulsions: Influence of nanochitin on lipid digestibility and vitamin bioaccessibility. Food Hydrocolloids, 2020, 106, 105878.	5.6	70
106	Preferential Adsorption and Activity of Monocomponent Cellulases on Lignocellulose Thin Films with Varying Lignin Content. Biomacromolecules, 2013, 14, 1231-1239.	2.6	69
107	Mesoporous carbon soft-templated from lignin nanofiber networks: microphase separation boosts supercapacitance in conductive electrodes. RSC Advances, 2016, 6, 85802-85810.	1.7	68
108	High Axial Ratio Nanochitins for Ultrastrong and Shape-Recoverable Hydrogels and Cryogels <i>via</i> Ice Templating. ACS Nano, 2019, 13, 2927-2935.	7.3	68

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109	Low Solids Emulsion Gels Based on Nanocellulose for 3D-Printing. Biomacromolecules, 2019, 20, 635-644.	2.6	68
110	A Review of Cellulose and Cellulose Blends for Preparation of Bio-derived and Conventional Membranes, Nanostructured Thin Films, and Composites. Polymer Reviews, 2018, 58, 102-163.	5.3	67
111	Thermomechanical Properties of Lignin-Based Electrospun Nanofibers and Films Reinforced with Cellulose Nanocrystals: A Dynamic Mechanical and Nanoindentation Study. ACS Applied Materials & Interfaces, 2013, 5, 11768-11776.	4.0	66
112	Generation and Properties of Antibacterial Coatings Based on Electrostatic Attachment of Silver Nanoparticles to Protein-Coated Polypropylene Fibers. ACS Applied Materials & Interfaces, 2013, 5, 5298-5306.	4.0	66
113	Cellulosic Substrates for Removal of Pollutants from Aqueous Systems: A Review. 3. Spilled Oil and Emulsified Organic Liquids. BioResources, 2013, 8, .	0.5	66
114	Asymmetric cellulose nanocrystals: thiolation of reducing end groups via NHSâ€“EDC coupling. Cellulose, 2014, 21, 4209-4218.	2.4	66
115	Green Modification of Surface Characteristics of Cellulosic Materials at the Molecular or Nano Scale: A Review. BioResources, 2015, 10, .	0.5	65
116	Development of food-grade Pickering emulsions stabilized by a mixture of cellulose nanofibrils and nanochitin. Food Hydrocolloids, 2021, 113, 106451.	5.6	65
117	Lignin nano- and microparticles as template for nanostructured materials: formation of hollow metal-phenolic capsules. Green Chemistry, 2018, 20, 1335-1344.	4.6	64
118	Exploiting Supramolecular Interactions from Polymeric Colloids for Strong Anisotropic Adhesion between Solid Surfaces. Advanced Materials, 2020, 32, e1906886.	11.1	64
119	Adsorption of a Nonionic Symmetric Triblock Copolymer on Surfaces with Different Hydrophobicity. Langmuir, 2010, 26, 9565-9574.	1.6	63
120	Bioactive Cellulose Nanofibrils for Specific Human IgG Binding. Biomacromolecules, 2013, 14, 4161-4168.	2.6	63
121	Surface forces and measuring techniques. International Journal of Mineral Processing, 1999, 56, 1-30.	2.6	62
122	Bicomponent Lignocellulose Thin Films to Study the Role of Surface Lignin in Cellulolytic Reactions. Biomacromolecules, 2012, 13, 3228-3240.	2.6	62
123	Magneto-responsive hybrid materials based on cellulose nanocrystals. Cellulose, 2014, 21, 2557-2566.	2.4	61
124	Effect of Anisotropy of Cellulose Nanocrystal Suspensions on Stratification, Domain Structure Formation, and Structural Colors. Biomacromolecules, 2018, 19, 2931-2943.	2.6	61
125	Cilia-Mimetic Hairy Surfaces Based on End-Immobilized Nanocellulose Colloidal Rods. Biomacromolecules, 2013, 14, 2807-2813.	2.6	60
126	Calcium Chelation of Lignin from Pulping Spent Liquor for Water-Resistant Slow-Release Urea Fertilizer Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 1054-1061.	3.2	60

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127	Twoâ€Phase Emulgels for Direct Ink Writing of Skinâ€Bearing Architectures. Advanced Functional Materials, 2019, 29, 1902990.	7.8	60
128	Conductive Carbon Microfibers Derived from Wet-Spun Lignin/Nanocellulose Hydrogels. ACS Sustainable Chemistry and Engineering, 2019, 7, 6013-6022.	3.2	60
129	Development and characterization of thin polymer films relevant to fiber processing. Thin Solid Films, 2009, 517, 4348-4354.	0.8	59
130	Adsorption and Association of a Symmetric PEO-PPO-PEO Triblock Copolymer on Polypropylene, Polyethylene, and Cellulose Surfaces. ACS Applied Materials & Interfaces, 2011, 3, 2349-2357.	4.0	58
131	Synthesis of soy proteinâ€"lignin nanofibers by solution electrospinning. Reactive and Functional Polymers, 2014, 85, 221-227.	2.0	58
132	X-ray Photoelectron Spectroscopy in the Study of Polyelectrolyte Adsorption on Mica and Cellulose. Journal of Physical Chemistry B, 2000, 104, 10032-10042.	1.2	57
133	Microbeads and Hollow Microcapsules Obtained by Self-Assembly of Pickering Magneto-Responsive Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2014, 6, 16851-16858.	4.0	57
134	Complexes of Magnetic Nanoparticles with Cellulose Nanocrystals as Regenerable, Highly Efficient, and Selective Platform for Protein Separation. Biomacromolecules, 2017, 18, 898-905.	2.6	57
135	Fabrication and Characterization of Drug-Loaded Conductive Poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (seba Materials & Interfaces, 2020, 12, 6899-6909.	4.0	57
136	Unique reactivity of nanoporous cellulosic materials mediated by surface-confined water. Nature Communications, 2021, 12, 2513.	5.8	57
137	Short-range interactions between non-ionic surfactant layers. Physical Chemistry Chemical Physics, 2006, 8, 5501.	1.3	56
138	Control of tacky deposits on paper machines â€" A review. Nordic Pulp and Paper Research Journal, 2006, 21, 154-171.	0.3	56
139	In situ production of nanocomposites of poly(vinyl alcohol) and cellulose nanofibrils from Gluconacetobacter bacteria: effect of chemical crosslinking. Cellulose, 2014, 21, 1745-1756.	2.4	56
140	Cellulose nanofibrils for one-step stabilization of multiple emulsions (W/O/W) based on soybean oil. Journal of Colloid and Interface Science, 2015, 445, 166-173.	5.0	56
141	Lignin-Based Porous Supraparticles for Carbon Capture. ACS Nano, 2021, 15, 6774-6786.	7.3	56
142	Oil Spills Abatement: Factors Affecting Oil Uptake by Cellulosic Fibers. Environmental Science & Technology, 2012, 46, 7725-7730.	4.6	55
143	Physical, thermal, chemical and rheological characterization of cellulosic microfibrils and microparticles produced from soybean hulls. Industrial Crops and Products, 2016, 84, 337-343.	2.5	55
144	Absorbent Filaments from Cellulose Nanofibril Hydrogels through Continuous Coaxial Wet Spinning. ACS Applied Materials & Interfaces, 2018, 10, 27287-27296.	4.0	55

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145	Polyelectrolytes as adhesion modifiers. Advances in Colloid and Interface Science, 2003, 104, 53-74.	7.0	54
146	Microemulsion Systems for Fiber Deconstruction into Cellulose Nanofibrils. ACS Applied Materials & Interfaces, 2014, 6, 22622-22627.	4.0	54
147	Curdlan cryogels reinforced with cellulose nanofibrils for controlled release. Journal of Environmental Chemical Engineering, 2017, 5, 5754-5761.	3.3	54
148	Formation and Antifouling Properties of Amphiphilic Coatings on Polypropylene Fibers. Biomacromolecules, 2012, 13, 3769-3779.	2.6	53
149	Multifunctional 3Dâ€Printed Patches for Longâ€Term Drug Release Therapies after Myocardial Infarction. Advanced Functional Materials, 2020, 30, 2003440.	7.8	53
150	Antioxidant and Thermal Stabilization of Polypropylene by Addition of Butylated Lignin at Low Loadings. ACS Sustainable Chemistry and Engineering, 2016, 4, 5248-5257.	3.2	52
151	Biogenic silica nanoparticles loaded with neem bark extract as green, slow-release biocide. Journal of Cleaner Production, 2017, 142, 4206-4213.	4.6	52
152	Modulation of Physicochemical Characteristics of Pickering Emulsions: Utilization of Nanocellulose- and Nanochitin-Coated Lipid Droplet Blends. Journal of Agricultural and Food Chemistry, 2020, 68, 603-611.	2.4	52
153	Cellulose Nanofibrils Endow Phase-Change Polyethylene Glycol with Form Control and Solid-to-gel Transition for Thermal Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 6188-6200.	4.0	51
154	Consequences of the nanoporosity of cellulosic fibers on their streaming potential and their interactions with cationic polyelectrolytes. Cellulose, 2007, 14, 655-671.	2.4	50
155	Direct ink writing of aloe vera/cellulose nanofibrils bio-hydrogels. Carbohydrate Polymers, 2021, 266, 118114.	5.1	50
156	The Foodâ€"Materials Nexus: Next Generation Bioplastics and Advanced Materials from Agriâ€Food Residues. Advanced Materials, 2021, 33, e2102520.	11.1	50
157	Starch-Based Biofoams Reinforced with Lignocellulose Nanofibrils from Residual Palm Empty Fruit Bunches: Water Sorption and Mechanical Strength. ACS Sustainable Chemistry and Engineering, 2016, 4, 5546-5552.	3.2	49
158	Hybrid films of chitosan, cellulose nanofibrils and boric acid: Flame retardancy, optical and thermo-mechanical properties. Carbohydrate Polymers, 2017, 177, 13-21.	5.1	49
159	Continuous Metalâ€"Organic Framework Biomineralization on Cellulose Nanocrystals: Extrusion of Functional Composite Filaments. ACS Sustainable Chemistry and Engineering, 2019, 7, 6287-6294.	3.2	49
160	Phosphorylated cellulose nanofibers exhibit exceptional capacity for uranium capture. Cellulose, 2020, 27, 10719-10732.	2.4	48
161	Residual lignin in cellulose nanofibrils enhances the interfacial stabilization of Pickering emulsions. Carbohydrate Polymers, 2021, 253, 117223.	5.1	48
162	Plantâ€Based Structures as an Opportunity to Engineer Optical Functions in Nextâ€Generation Light Management. Advanced Materials, 2022, 34, e2104473.	11.1	48

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163	The Dispersion Science of Papermaking. Journal of Dispersion Science and Technology, 2005, 25, 713-732.	1.3	47
164	Featherlight, Mechanically Robust Cellulose Ester Aerogels for Environmental Remediation. ACS Omega, 2017, 2, 4297-4305.	1.6	47
165	Inverse Thermoreversible Mechanical Stiffening and Birefringence in a Methylcellulose/Cellulose Nanocrystal Hydrogel. Biomacromolecules, 2018, 19, 2795-2804.	2.6	47
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