

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124 papers	4,480 citations	38 h-index	62 g-index
129 ext. papers	5,175 ext. citations	6.6 avg, IF	6.01 L-index

#	Paper	IF	Citations
124	Nanocellulose-based conductive materials and their emerging applications in energy devices - A review. <i>Nano Energy</i> , 2017 , 35, 299-320	17.1	264
123	Enhanced enzymatic hydrolysis of spruce by alkaline pretreatment at low temperature. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 1320-8	4.9	246
122	Lignin Pyrolysis Components and Upgrading Technology Review. <i>Bioenergy Research</i> , 2013 , 6, 1183-1204	3.1	230
121	Aerogels from crosslinked cellulose nano/micro-fibrils and their fast shape recovery property in water. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11642		175
120	Aerogel microspheres from natural cellulose nanofibrils and their application as cell culture scaffold. <i>Biomacromolecules</i> , 2014 , 15, 2540-7	6.9	149
119	Fluorine-Free Oil Absorbents Made from Cellulose Nanofibril Aerogels. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2732-40	9.5	143
118	Direct Ink Write (DIW) 3D Printed Cellulose Nanocrystal Aerogel Structures. <i>Scientific Reports</i> , 2017 , 7, 8018	4.9	110
117	Solid-state flexible polyaniline/silver cellulose nanofibrils aerogel supercapacitors. <i>Journal of Power Sources</i> , 2014 , 246, 283-289	8.9	103
116	Solar-induced direct biomass-to-electricity hybrid fuel cell using polyoxometalates as photocatalyst and charge carrier. <i>Nature Communications</i> , 2014 , 5, 3208	17.4	99
115	The morphology and mechanical properties of layer structured cellulose microfibril foams from ice-templating methods. <i>Soft Matter</i> , 2011 , 7, 6034	3.6	95
114	High efficiency hydrogen evolution from native biomass electrolysis. <i>Energy and Environmental Science</i> , 2016 , 9, 467-472	35.4	85
113	Characterization of cellulose nanofibrillation by micro grinding. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	82
112	Clay/starch composites and their application in papermaking. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1032-1038	2.9	71
111	Electrospinning and characterization of poly(vinyl alcohol)/chitosan oligosaccharide/clay nanocomposite nanofibers in aqueous solutions. <i>Colloid and Polymer Science</i> , 2009 , 287, 943-950	2.4	65
110	Reinforcement of all-cellulose nanocomposite films using native cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2014 , 104, 143-50	10.3	64
109	Direct Ink Write 3D Printed Cellulose Nanofiber Aerogel Structures with Highly Deformable, Shape Recoverable, and Functionalizable Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2011-2022	8.3	63
108	Noble metal catalyzed aqueous phase hydrogenation and hydrodeoxygenation of lignin-derived pyrolysis oil and related model compounds. <i>Bioresource Technology</i> , 2014 , 173, 6-10	11	62

107	Solid-state, flexible, high strength paper-based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5835	13	62
106	A sandwich-structured ultraviolet photodetector driven only by opposite heterojunctions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13899		61
105	Thermo-responsive and fluorescent cellulose nanocrystals grafted with polymer brushes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1995-2005	13	60
104	Kinetics Study of ZnO Nanorod Growth in Solution. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19853-19858	5.8	60
103	Superhydrophobic Surface Fabricated from Fatty Acid-Modified Precipitated Calcium Carbonate. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5625-5630	3.9	60
102	Improvement of paper strength with starch modified clay. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 44-50	2.9	60
101	High performance poly (vinyl alcohol)/cellulose nanocrystals nanocomposites manufactured by injection molding. <i>Cellulose</i> , 2014 , 21, 485-494	5.5	56
100	Temperature-sensitive poly-NIPAm modified cellulose nanofibril cryogel microspheres for controlled drug release. <i>Cellulose</i> , 2016 , 23, 415-425	5.5	54
99	Increased mechanical properties of aligned and isotropic electrospun PVA nanofiber webs by cellulose nanowhisker reinforcement. <i>Macromolecular Research</i> , 2012 , 20, 76-83	1.9	52
98	Energy Saving in Papermaking through Filler Addition. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8430-8435	3.9	52
97	Thermally enhanced high performance cellulose nano fibril barrier membranes. <i>RSC Advances</i> , 2014 , 4, 45136-45142	3.7	48
96	Surfactant free Pickering emulsion polymerization of styrene in w/o/w system using cellulose nanofibrils. <i>European Polymer Journal</i> , 2015 , 64, 179-188	5.2	48
95	High-performance liquid-catalyst fuel cell for direct biomass-into-electricity conversion. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13558-62	16.4	47
94	High wet-strength, thermally stable and transparent TEMPO-oxidized cellulose nanofibril film via cross-linking with poly-amide epichlorohydrin resin. <i>RSC Advances</i> , 2017 , 7, 31567-31573	3.7	45
93	3D printed cellulose nanocrystal composites through digital light processing. <i>Cellulose</i> , 2019 , 26, 3973-3985	3.5	41
92	Polyaniline Microspheres Consisting of Highly Crystallized Nanorods. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1237-1242	4.8	41
91	Low-Energy Catalytic Electrolysis for Simultaneous Hydrogen Evolution and Lignin Depolymerization. <i>ChemSusChem</i> , 2017 , 10, 847-854	8.3	40
90	Evolution of the zinc compound nanostructures in zinc acetate single-source solution. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5193-5202	2.3	40

89	Low-temperature microbial and direct conversion of lignocellulosic biomass to electricity: Advances and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 71, 268-282	16.2	39
88	Poly(vinyl acetate)/poly(vinyl alcohol)/montmorillonite nanocomposite microspheres prepared by suspension polymerization and saponification. <i>Colloid and Polymer Science</i> , 2007 , 285, 705-710	2.4	39
87	Synthesis of high molecular weight poly(methyl methacrylate) microspheres by suspension polymerization in the presence of silver nanoparticles. <i>Colloid and Polymer Science</i> , 2005 , 283, 1172-1179	2.4	38
86	Poly(vinyl alcohol)/chitosan oligosaccharide blend submicrometer fibers prepared from aqueous solutions by the electrospinning method. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 132-140	2.9	37
85	Hydrogen Evolution from Native Biomass with Fe ³⁺ /Fe ²⁺ Redox Couple Catalyzed Electrolysis. <i>Electrochimica Acta</i> , 2017 , 246, 1163-1173	6.7	35
84	Cross-linked starch nanoparticles stabilized Pickering emulsion polymerization of styrene in w/o/w system. <i>Colloid and Polymer Science</i> , 2014 , 292, 599-612	2.4	34
83	High Performance All-solid Supercapacitors Based on the Network of Ultralong Manganese dioxide/Polyaniline Coaxial Nanowires. <i>Scientific Reports</i> , 2015 , 5, 17858	4.9	34
82	Poly(vinyl acetate)/Silver Nanocomposite Microspheres Prepared by Suspension Polymerization at Low Temperature. <i>Macromolecular Materials and Engineering</i> , 2005 , 290, 78-84	3.9	33
81	High-Performance Liquid-Catalyst Fuel Cell for Direct Biomass-into-Electricity Conversion. <i>Angewandte Chemie</i> , 2014 , 126, 13776-13780	3.6	32
80	Cellulose Nanofibril Based-Aerogel Microreactors: A High Efficiency and Easy Recoverable W/O/W Membrane Separation System. <i>Scientific Reports</i> , 2017 , 7, 40096	4.9	31
79	Pickering emulsion stabilized by amphiphilic pH-sensitive starch nanoparticles as therapeutic containers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 244-251	6	31
78	High-efficiency electrochemical hydrodeoxygenation of bio-phenols to hydrocarbon fuels by a superacid-noble metal particle dual-catalyst system. <i>Energy and Environmental Science</i> , 2020 , 13, 917-927	25.4	29
77	Ultra-lightweight poly (sodium acrylate) modified TEMPO-oxidized cellulose nanofibril aerogel spheres and their superabsorbent properties. <i>Cellulose</i> , 2016 , 23, 3665-3676	5.5	29
76	One-Step Fabrication of Fe(OH)@Cellulose Hollow Nanofibers with Superior Capability for Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25339-25349	9.5	29
75	Characterization of micro fibrillation process of cellulose and mercerized cellulose pulp. <i>RSC Advances</i> , 2015 , 5, 63111-63122	3.7	28
74	Nanoindentation study of individual cellulose nanowhisker-reinforced PVA electrospun fiber. <i>Polymer Bulletin</i> , 2013 , 70, 1205-1219	2.4	28
73	General approach for fabricating nanoparticle arrays via patterned block copolymer nanoreactors. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1-13	2.3	27
72	Surface modification of cellulose fibers by starch grafting with crosslinkers. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 3019-3026	2.9	27

71	Polyoxymetalate liquid-catalyzed polyol fuel cell and the related photoelectrochemical reaction mechanism study. <i>Journal of Power Sources</i> , 2016 , 318, 86-92	8.9	27
70	Janus particles with tunable coverage of zinc oxide nanowires. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2067		26
69	Electrochemical Lignin Conversion. <i>ChemSusChem</i> , 2020 , 13, 4318-4343	8.3	25
68	Ambient-pressure and low-temperature upgrading of lignin bio-oil to hydrocarbons using a hydrogen buffer catalytic system. <i>Nature Energy</i> , 2020 , 5, 759-767	62.3	25
67	Cellulose nanocrystals support material for 3D printing complexly shaped structures via multi-materials-multi-methods printing. <i>Additive Manufacturing</i> , 2019 , 28, 14-22	6.1	24
66	Direct Conversion of Wheat Straw into Electricity with a Biomass Flow Fuel Cell Mediated by Two Redox Ion Pairs. <i>ChemSusChem</i> , 2017 , 10, 506-513	8.3	23
65	Kinetics of Miniemulsion Polymerization of Styrene in the Presence of Organoclays. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 529-537	3.9	23
64	Highly transparent 100% cellulose nanofibril films with extremely high oxygen barriers in high relative humidity. <i>Cellulose</i> , 2018 , 25, 4057-4066	5.5	23
63	Preparation of Starch/Ethy Acid Modified Clay and Its Application in Packaging Papers. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 5628-5633	3.9	22
62	Towards sustainable production and utilization of plant-biomass-based nanomaterials: a review and analysis of recent developments. <i>Biotechnology for Biofuels</i> , 2021 , 14, 114	7.8	22
61	Innovative design of coal utilization A green pathway for direct conversion of coal to electricity through flow fuel cell technology. <i>Applied Energy</i> , 2017 , 200, 226-236	10.7	21
60	Rheological study of self-crosslinking and co-crosslinking of ammonium zirconium carbonate and starch in aqueous solutions. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 1019-1029	2.9	21
59	Multihollow structured poly(methyl methacrylate)/silver nanocomposite microspheres prepared by suspension polymerization in the presence of dual dispersion agents. <i>Colloid and Polymer Science</i> , 2008 , 286, 1379-1385	2.4	21
58	Polymer clay self-assembly complexes on paper. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1987-1992	2.9	20
57	Surface modification of cellulose nanofibrils by maleated styrene block copolymer and their composite reinforcement application. <i>Cellulose</i> , 2016 , 23, 519-528	5.5	19
56	Overview of Biomass Conversion to Electricity and Hydrogen and Recent Developments in Low-Temperature Electrochemical Approaches. <i>Engineering</i> , 2020 , 6, 1351-1363	9.7	19
55	Synthesis of precipitated calcium carbonate nanoparticles using a two-membrane system. <i>Colloid Journal</i> , 2004 , 66, 745-750	1.1	19
54	Electrospinning fabrication and characterization of poly(vinyl alcohol)/waterborne polyurethane nanofiber membranes in aqueous solution. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 2337-2345	2.9	18

53	Encapsulation of Inorganic Particles with Nanostructured Cellulose. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 1158-1163	3.9	18
52	Flexible and Conductive Carbonized Cotton Fabrics Coupled with a Nanostructured Ni(OH) ₂ Coating for High Performance Aqueous Symmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5231-5239	8.3	17
51	ZnO spheres and nanorods formation: their dependence on agitation in solution synthesis. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1689-1696	2.3	17
50	Highly Efficient Lignin Depolymerization via Effective Inhibition of Condensation during Polyoxometalate-Mediated Oxidation. <i>Energy & Fuels</i> , 2019 , 33, 6483-6490	4.1	16
49	Ferric ion pair mediated biomass redox flow fuel cell and related chemical reaction kinetics study. <i>Chemical Engineering Journal</i> , 2018 , 348, 476-484	14.7	16
48	Morphology control for tunable optical properties of cellulose nanofibrils films. <i>Cellulose</i> , 2018 , 25, 5909-5918	3.5	16
47	Thermally-induced cellulose nanofibril films with near-complete ultraviolet-blocking and improved water resistance. <i>Carbohydrate Polymers</i> , 2019 , 223, 115050	10.3	16
46	Opposite photocurrent response to ultraviolet and visible light. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24522		15
45	Butyric anhydride modified lignin and its oil-water interfacial properties. <i>Chemical Engineering Science</i> , 2017 , 165, 55-64	4.4	14
44	Direct conversion of sewage sludge to electricity using polyoxometalate catalyzed flow fuel cell. <i>Energy</i> , 2017 , 141, 1019-1026	7.9	14
43	In situ self-assembly synthesis of gold nanoparticle arrays on polystyrene microspheres and their surface plasmon resonance. <i>Colloid and Polymer Science</i> , 2013 , 291, 239-244	2.4	14
42	Enhanced bondability between inorganic particles and a polysaccharide substrate by encapsulation with regenerated cellulose. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2830-2836	2.9	14
41	Low temperature suspension polymerization of methyl methacrylate for the preparation of high molecular weight poly(methyl methacrylate)/silver nanocomposite microspheres. <i>Fibers and Polymers</i> , 2005 , 6, 277-283	2	14
40	Surface Structure Patterning for Fabricating Non-fluorinated Superhydrophobic Cellulosic Membranes. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1220-1229	4.3	13
39	Effective low-temperature hydrogenolysis of lignin using carbon-supported ruthenium and formic acid as reducing agent. <i>Catalysis Communications</i> , 2019 , 126, 30-34	3.2	13
38	Recyclable magnetic-Pickering emulsion liquid membrane for extracting phenol compounds from wastewater. <i>Journal of Materials Science</i> , 2016 , 51, 6370-6378	4.3	13
37	Water-Expandable Polystyrene Using Cross-Linked Starch Nanoparticle as Water-Stabilizing Agent. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6627-6633	3.9	11
36	Efficient Biomass Fuel Cell Powered by Sugar with Photo- and Thermal-Catalysis by Solar Irradiation. <i>ChemSusChem</i> , 2018 , 11, 2229-2238	8.3	11

35	Synthesis of Needle-Like Aragonite Crystals in the Presence of Magnesium Chloride and Their Application in Papermaking. <i>Advanced Composite Materials</i> , 2009 , 18, 315-326	2.8	11
34	Microflano structural engineering of filter paper surface for high selective oil/water separation. <i>Cellulose</i> , 2017 , 24, 2913-2924	5.5	10
33	Expanded polystyrene via stabilized water droplet by in-situ modified starch nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 582, 123863	5.1	10
32	Water expandable polystyrene containing cellulose nanofibrils: Expansion behavior and morphology. <i>Chemical Engineering Science</i> , 2016 , 156, 56-63	4.4	10
31	Natural Wood Structure Inspires Practical Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2103-2110	10.1	10
30	Direct Valorization of Lignocellulosic Biomass into Value-Added Chemicals by Polyoxometalate Catalyzed Oxidation under Mild Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22996-23004	3.9	10
29	Facile preparation of high dielectric flexible films based on titanium dioxide and cellulose nanofibrils. <i>Cellulose</i> , 2019 , 26, 6087-6098	5.5	9
28	Low energy electro-reduction of carbon dioxide coupling with anodic glycerol oxidation catalyzed by chemical regenerative phosphomolybdic acids. <i>Journal of Power Sources</i> , 2019 , 420, 99-107	8.9	9
27	High dielectric thin films based on barium titanate and cellulose nanofibrils.. <i>RSC Advances</i> , 2020 , 10, 5758-5765	3.7	9
26	A self-powered electrolytic process for glucose to hydrogen conversion. <i>Communications Chemistry</i> , 2019 , 2,	6.3	9
25	Poly(vinyl alcohol)/montmorillonite/silver hybrid nanoparticles prepared from aqueous solutions by the electrospraying method. <i>Journal of Composite Materials</i> , 2013 , 47, 3367-3378	2.7	9
24	Low-temperature, Low-Energy, and High-Efficiency Pretreatment Technology for Large Wood Chips with a Redox Couple Catalyst. <i>ChemSusChem</i> , 2018 , 11, 1121-1131	8.3	8
23	Lignin-polystyrene composite foams through high internal phase emulsion polymerization. <i>Polymer Engineering and Science</i> , 2019 , 59, 964-972	2.3	7
22	The formation of asymmetric polystyrene/saponite composite nanoparticles via miniemulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3916-3922	2.9	7
21	Selective and Sequential Re-Assembly of Patterned Block Copolymer Thin Film for Fabricating Polymeric, Inorganic, and Their Composite Nanostructured Arrays. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1526-32	4.8	7
20	Improvement of Peroxide Bleaching Yield and Efficiency of TMP Using Glyoxal Crosslink Agents. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5813-5818	3.9	7
19	Fast solvent removal by mechanical twisting for gel spinning of ultrastrong fibers. <i>Polymer Engineering and Science</i> , 2015 , 55, 745-752	2.3	6
18	Fundamental Study toward Improving the Performance of a High-Moisture Biomass-Fueled Redox Flow Fuel Cell. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4817-4828	3.9	5

- 17 Flow fuel cell powered by combustible agricultural waste. *Clean Energy*, **2018**, 2, 20-28 4.7 5
- 16 Advances in Versatile Nanoscale Catalyst for the Reductive Catalytic Fractionation of Lignin. *ChemSusChem*, **2021**, 14, 2268-2294 8.3 5
- 15 Oxidative Catalytic Fractionation and Depolymerization of Lignin in a One-Pot Single-Catalyst System. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7719-7727 8.3 5
- 14 Selective hydrodeoxygenation of lignin model compound (3,4-dimethoxybenzyl alcohol) by Pd/CN catalyst. *International Journal of Biological Macromolecules*, **2021**, 169, 274-281 7.9 5
- 13 Highly Ordered, Ultralong Mn-Based Nanowire Films with Low Contact Resistance as Freestanding Electrodes for Flexible Supercapacitors with Enhanced Performance. *ChemElectroChem*, **2017**, 4, 3061-3067 4.3 4
- 12 Ferric-ferrous redox couple mediated low temperature symmetric flow fuel cell for direct conversion of biomass residues into electricity. *Journal of Power Sources*, **2020**, 448, 227441 8.9 4
- 11 A Self-Powered Nanophotodetector System with High UV Photocurrent. *ACS Applied Energy Materials*, **2018**, 1, 6851-6856 6.1 4
- 10 Superhydrophobic elastomer with leaf-spring microstructure made from natural wood without any modification chemicals. *Chemical Engineering Journal*, **2022**, 442, 136338 14.7 4
- 9 Electrospraying Fabrication and Characterization of Low Molecular Weight Poly(vinyl alcohol)/Silver Composite Nanospheres for Antibacterial Applications. *Polymers and Polymer Composites*, **2012**, 20, 253-260 0.8 3
- 8 Fusion bonding of supercooled poly(ethylene terephthalate) between T_g and T_m. *Journal of Applied Polymer Science*, **2011**, 119, 3101-3112 2.9 3
- 7 Freezing-mediated polymerization of Ag nanoparticle-embedded polyaniline belts with polyoxometalate as doping acid exhibiting UV-photosensitivity. *RSC Advances*, **2016**, 6, 46475-46478 3.7 3
- 6 Enabling direct ink write edible 3D printing of food purees with cellulose nanocrystals. *Journal of Food Engineering*, **2022**, 111086 6 2
- 5 Synthesis of Needle-like Aragonite from Limestone without Calcinations in the Presence of Magnesium Sulfate. *Advanced Composite Materials*, **2009**, 18, 187-195 2.8 1
- 4 The effects of lignocellulosic fiber surface area on the dynamics of lignin oxidation and diffusion. *Journal of Applied Polymer Science*, **2004**, 94, 177-181 2.9 1
- 3 Cellulose- and nanocellulose-based dielectric materials **2021**, 73-100 1
- 2 Effect of disperse dye on the preparation of poly(vinyl acetate)/poly(vinyl alcohol)/disperse dye composite microspheres. *Journal of Composite Materials*, **2014**, 48, 2265-2271 2.7
- 1 Tribology Passive Protection of Friction Pair with Polystyrene. *Tribology Transactions*, **2009**, 52, 191-196 1.8