

Yanyan Lv

List of Publications by Year in Descending Order

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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.

85
papers

1,966
citations

25
h-index

41
g-index

92
ext. papers

2,365
ext. citations

5.4
avg, IF

5.16
L-index

#	Paper	IF	Citations
85	Robust and Highly Sensitive Cellulose Nanofiber-Based Humidity Actuators. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54417-54427	9.5	1
84	Preparation and characterization of RDX based composite energetic materials with a cellulose matrix. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50329	2.9	2
83	Cellulose acetate-based separators prepared by a reversible acetylation process for high-performance lithium-ion batteries. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50738	2.9	0
82	Nanocellulose preparation via a dissolution and regeneration process and application to wood-plastic composites as toughness enhancement. <i>European Journal of Wood and Wood Products</i> , 2021 , 79, 1359	2.1	
81	Biomimetic-Inspired One-Step Strategy for Improvement of Interfacial Interactions in Cellulose Nanofibers by Modification of the Surface of Nitramine Explosives. <i>Langmuir</i> , 2021 , 37, 8486-8497	4	3
80	Preparation of treelike and rodlike carboxymethylated nanocellulose and their effect on carboxymethyl cellulose films. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50092	2.9	2
79	Biomass applied in supercapacitor energy storage devices. <i>Journal of Materials Science</i> , 2021 , 56, 1943-1979	12.9	18
78	A visible light active, carbon-nitrogen-sulfur co-doped TiO ₂ /g-CN Z-scheme heterojunction as an effective photocatalyst to remove dye pollutants.. <i>RSC Advances</i> , 2021 , 11, 16747-16754	3.7	3
77	Stiffened and toughened polyacrylamide/polyanionic cellulose physical hydrogels mediated by ferric ions. <i>Colloid and Polymer Science</i> , 2021 , 299, 999-1009	2.4	0
76	Parameterization of classical nonpolarizable force field for hydroxide toward the large-scale molecular dynamics simulation of cellulose in pre-cooled alkali/urea aqueous solution. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51477	2.9	1
75	Tough and Multifunctional Composite Film Actuators Based on Cellulose Nanofibers toward Smart Wearables. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38700-38711	9.5	9
74	Film Properties, Water Retention, and Growth Promotion of Derivative Carboxymethyl Cellulose Materials from Cotton Straw. <i>Advances in Polymer Technology</i> , 2021 , 2021, 1-10	1.9	1
73	Sulfur vacancies enriched Nickel-Cobalt sulfides hollow spheres with high performance for All-Solid-State hybrid supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 640-649	9.3	7
72	O/N-co-doped hierarchically porous carbon from carboxymethyl cellulose ammonium for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020 , 55, 7417-7431	4.3	10
71	A physical and chemical double enhancement strategy for 3D printing of cellulose reinforced nanocomposite. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49164	2.9	13
70	Three-Dimensional Printing of Methacrylic Grafted Cellulose Nanocrystal-Reinforced Nanocomposites With Improved Properties. <i>Polymer Engineering and Science</i> , 2020 , 60, 782-792	2.3	5
69	Adsorption mechanism of copper ions in aqueous solution by chitosan/carboxymethyl starch composites. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48636	2.9	5

68	Nanocomposites membranes from cellulose nanofibers, SiO and carboxymethyl cellulose with improved properties. <i>Carbohydrate Polymers</i> , 2020 , 233, 115818	10.3	12
67	Preparation of Diameter-Controlled Cellulose Aerogel Spheres via Atomization Method and Their Load Performance. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000243	3.9	3
66	Zr(IV)-Crosslinked Polyacrylamide/Polyanionic Cellulose Composite Hydrogels with High Strength and Unique Acid Resistance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 981-991	2.6	10
65	Carboxymethyl Cellulose Nanofibrils with a Treelike Matrix: Preparation and Behavior of Pickering Emulsions Stabilization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12887-12896	8.3	21
64	Methodology of Redispersible Dry Cellulose Nanofibrils Powder Synthesis under Waterless Condition. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10690-10698	8.3	8
63	Redispersibility of cellulose nanoparticles modified by phenyltrimethoxysilane and its application in stabilizing Pickering emulsions. <i>Journal of Materials Science</i> , 2019 , 54, 11713-11725	4.3	10
62	Nanocellulose-derived carbon nanosphere fibers-based nano hybrid aerogel for high-performance all-solid-state flexible supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8585-8594	2.1	8
61	Cellulosic materials-enhanced sandwich structure-like separator via electrospinning towards safer lithium-ion battery. <i>Carbohydrate Polymers</i> , 2019 , 214, 328-336	10.3	37
60	Eco-Friendly Electrochemical Biosensor based on Sodium Carboxymethyl Cellulose/Reduced Graphene Oxide Composite. <i>Macromolecular Research</i> , 2019 , 27, 327-333	1.9	10
59	Low-cost and robust production of multi-doped 2D carbon nanosheets for high-performance lithium-ion capacitors. <i>Chemical Engineering Journal</i> , 2019 , 370, 508-517	14.7	16
58	In-situ fabricated anisotropic halide perovskite nanocrystals in polyvinylalcohol nanofibers: Shape tuning and polarized emission. <i>Nano Research</i> , 2019 , 12, 1411-1416	10	35
57	Fe ₃ O ₄ /Nitrogen-Doped Carbon Electrodes from Tailored Thermal Expansion toward Flexible Solid-State Asymmetric Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901250	4.6	5
56	Preparation and Characterization of Cellulose/RDX Composite Aerogel Spheres. <i>Propellants, Explosives, Pyrotechnics</i> , 2019 , 44, 1613-1620	1.7	10
55	Synergistically Suppressing Lithium Dendrite Growth by Coating Poly-L-Lactic Acid on Sustainable Gel Polymer Electrolyte. <i>Energy Technology</i> , 2019 , 7, 1800768	3.5	3
54	CQDs-Doped Magnetic Electrospun Nanofibers: Fluorescence Self-Display and Adsorption Removal of Mercury(II). <i>ACS Omega</i> , 2018 , 3, 4220-4230	3.9	13
53	Biomass-based magnetic fluorescent nanoparticles: One-step scalable synthesis, application as drug carriers and mechanism study. <i>Carbohydrate Polymers</i> , 2018 , 184, 277-287	10.3	9
52	Facile synthesis of magnetic fluorescent nanoparticles: adsorption and selective detection of Hg(II) in water. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2360-2369	7.1	24
51	Halloysite nanotubes and Fe ₃ O ₄ nanoparticles enhanced adsorption removal of heavy metal using electrospun membranes. <i>Applied Clay Science</i> , 2018 , 161, 225-234	5.2	59

50	Dual physically crosslinked healable polyacrylamide/cellulose nanofibers nanocomposite hydrogels with excellent mechanical properties. <i>Carbohydrate Polymers</i> , 2018 , 193, 73-81	10.3	52
49	Carboxymethylcellulose ammonium-derived nitrogen-doped carbon fiber/molybdenum disulfide hybrids for high-performance supercapacitor electrodes.. <i>RSC Advances</i> , 2018 , 8, 28944-28952	3.7	5
48	Chitosan and carboxymethyl cellulose-multilayered magnetic fluorescent systems for reversible protein immobilization. <i>Carbohydrate Polymers</i> , 2018 , 201, 357-366	10.3	16
47	Dispersion of reduced graphene oxide with montmorillonite for enhancing dielectric properties and thermal stability of cyanoethyl cellulose nanocomposites. <i>Cellulose</i> , 2018 , 25, 7143-7152	5.5	7
46	Biomass-based O, N-codoped activated carbon aerogels with ultramicropores for supercapacitors. <i>Journal of Materials Science</i> , 2018 , 53, 12374-12387	4.3	37
45	Cellulosic Biomass-Reinforced Polyvinylidene Fluoride Separators with Enhanced Dielectric Properties and Thermal Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20885-20894	9.5	34
44	Using a fully recyclable dicarboxylic acid for producing dispersible and thermally stable cellulose nanomaterials from different cellulosic sources. <i>Cellulose</i> , 2017 , 24, 2483-2498	5.5	55
43	Ultrasound-induced gelation of fluorenyl-9-methoxycarbonyl-L-lysine(fluorenyl-9-methoxycarbonyl)-OH and its dipeptide derivatives showing very low minimum gelation concentrations. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 665-676	9.3	13
42	A Bottom-Up Synthesis of Vinyl-Cellulose Nanosheets and Their Nanocomposite Hydrogels with Enhanced Strength. <i>Biomacromolecules</i> , 2017 , 18, 4196-4205	6.9	27
41	A cellulose-based hybrid 2D material aerogel for a flexible all-solid-state supercapacitor with high specific capacitance. <i>RSC Advances</i> , 2017 , 7, 43512-43520	3.7	34
40	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28922-28929	9.5	39
39	Synthesis and gelation capability of mono- and disubstituted cyclo(L-Glu-L-Glu) derivatives with tyramine, tyrosine and phenylalanine. <i>Colloid and Polymer Science</i> , 2017 , 295, 1549-1561	2.4	6
38	Enhanced permeability and antifouling performance of cellulose acetate ultrafiltration membrane assisted by L-DOPA functionalized halloysite nanotubes. <i>Carbohydrate Polymers</i> , 2017 , 174, 688-696	10.3	24
37	Controlled extracellular biosynthesis of ZnS quantum dots by sulphate reduction bacteria in the presence of hydroxypropyl starch as a mediator. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	11
36	Preparation and characterization of xanthated cotton fiber modified cellulose triacetate ultrafiltration membrane. <i>Desalination and Water Treatment</i> , 2016 , 57, 10188-10199		
35	Short-chain amino acids functionalized cellulose nanofibers composite ultrafiltration membrane with enhanced properties. <i>RSC Advances</i> , 2016 , 6, 76336-76343	3.7	7
34	Polypyrrole/cellulose nanofiber aerogel as a supercapacitor electrode material. <i>RSC Advances</i> , 2016 , 6, 109143-109149	3.7	20
33	Alcogel and aerogel of nitrocellulose formed in nitrocellulose/acetone/ethanol ternary system. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016 , 65, 377-383	3	12

32	Gelation capability of cysteine-modified cyclo(L-Lys-L-Lys)s dominated by Fmoc and Trt protecting groups. <i>Science China Chemistry</i> , 2016 , 59, 293-302	7.9	7
31	Preparation and properties of environmental-friendly coatings based on carboxymethyl cellulose nitrate ester & modified alkyd. <i>Carbohydrate Polymers</i> , 2016 , 137, 92-99	10.3	17
30	Preparation of Well-Defined Propargyl-Terminated Tetra-Arm Poly(N-isopropylacrylamide)s and Their Click Hydrogels Crosslinked with β -cyclodextrin. <i>Polymers</i> , 2016 , 8,	4.5	7
29	Synthesis and gelation capability of Fmoc and Boc mono-substituted cyclo(L-Lys-L-Lys)s. <i>Chemical Research in Chinese Universities</i> , 2016 , 32, 484-492	2.2	6
28	Convenient fabrication of carboxymethyl cellulose electrospun nanofibers functionalized with silver nanoparticles. <i>Cellulose</i> , 2016 , 23, 1899-1909	5.5	37
27	Poly(N-isopropylacrylamide) Hydrogels Crosslinked by Small-Molecular Crosslinkers Through Click Chemistry. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 104-110	3	5
26	Chitosan/Silica composite aerogels: preparation, characterization and Congo red adsorption. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 76, 501-509	2.3	29
25	Multifunctional Biopolymer Nanoparticles for Drug Delivery and Protein Immobilization. <i>Ferroelectrics</i> , 2015 , 486, 156-167	0.6	7
24	Preparation and dielectric properties of cyanoethyl cellulose/BaTiO ₃ flexible nanocomposite films. <i>RSC Advances</i> , 2015 , 5, 15283-15291	3.7	22
23	Homogeneous tritylation of cellulose in 1-allyl-3-methylimidazolium chloride and subsequent acetylation: the influence of base. <i>Carbohydrate Polymers</i> , 2015 , 117, 818-824	10.3	7
22	Elastic, conductive, polymeric hydrogels and sponges. <i>Scientific Reports</i> , 2014 , 4, 5792	4.9	120
21	Study on novel functional materials carboxymethyl cellulose lithium (CMC-Li) improve high-performance lithium-ion battery. <i>Carbohydrate Polymers</i> , 2014 , 110, 121-7	10.3	13
20	Poly(N-isopropylacrylamide) hydrogels fabricated via click chemistry: well-defined bis propargyl linear poly(N-isopropylacrylamide)s as crosslinkers. <i>RSC Advances</i> , 2014 , 4, 51510-51518	3.7	7
19	Novel functional carboxymethyl cellulose lithium (CMC-Li) for enhanced performance of lithium-ion batteries. <i>RSC Advances</i> , 2014 , 4, 24859-24862	3.7	18
18	Highly transparent and colour-tunable composite films with increased quantum dot loading. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10031-10036	7.1	26
17	Novel polymer Li-ion binder carboxymethyl cellulose derivative enhanced electrochemical performance for Li-ion batteries. <i>Carbohydrate Polymers</i> , 2014 , 112, 532-8	10.3	51
16	Study on effects of carboxymethyl cellulose lithium (CMC-Li) synthesis and electrospinning on high-rate lithium ion batteries. <i>Cellulose</i> , 2014 , 21, 615-626	5.5	26
15	Carboxymethyl cellulose lithium (CMC-Li) as a novel binder and its electrochemical performance in lithium-ion batteries. <i>Cellulose</i> , 2014 , 21, 2789-2796	5.5	27

14	Cellulose nanofiber/single-walled carbon nanotube hybrid non-woven macrofiber mats as novel wearable supercapacitors with excellent stability, tailorability and reliability. <i>Nanoscale</i> , 2014 , 6, 4083-8	7.7	78
13	Enhanced electrochemical properties of LiFePO ₄ (LFP) cathode using the carboxymethyl cellulose lithium (CMC-Li) as novel binder in lithium-ion battery. <i>Carbohydrate Polymers</i> , 2014 , 111, 588-91	10.3	33
12	Synthesis and electrospinning carboxymethyl cellulose lithium (CMC-Li) modified 9,10-anthraquinone (AQ) high-rate lithium-ion battery. <i>Carbohydrate Polymers</i> , 2014 , 102, 986-92	10.3	28
11	Rheological characteristics of nitrate glycerol ether cellulose gel based on phase separation in ternary system. <i>Cellulose</i> , 2014 , 21, 4135-4143	5.5	2
10	Cellulose nanofibers/multi-walled carbon nanotube nanohybrid aerogel for all-solid-state flexible supercapacitors. <i>RSC Advances</i> , 2013 , 3, 15058	3.7	100
9	Fluorescent cellulose aerogels containing covalently immobilized (ZnS)(CuInS)/ZnS (core/shell) quantum dots. <i>Cellulose</i> , 2013 , 20, 3007-3024	5.5	37
8	Cellulose nanofiber/graphene all solid-state flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 63-67	13	279
7	Paper-based transparent flexible thin film supercapacitors. <i>Nanoscale</i> , 2013 , 5, 5307-11	7.7	92
6	Transparent, flexible and luminescent composite films by incorporating CuInS ₂ based quantum dots into a cyanoethyl cellulose matrix. <i>RSC Advances</i> , 2012 , 2, 2675	3.7	20
5	Superhydrophobicity of CMCAB Fibrous Mats Produced by Electrospinning. <i>Integrated Ferroelectrics</i> , 2012 , 135, 55-61	0.8	7
4	Glucono-lactone controlled assembly of graphene oxide hydrogels with selectively reversible gel/sol transition. <i>Soft Matter</i> , 2012 , 8, 4609	3.6	73
3	Polymerization of acrylamide inverse microemulsion initiated directly by UV radiation. <i>E-Polymers</i> , 2011 , 11,	2.7	1
2	Preparation of AlNPs/NC Composite Nanofibers by Electrospinning. <i>Integrated Ferroelectrics</i> , 2011 , 127, 184-192	0.8	8
1	Self-doping porous carbon materials synthesis from bio-wastes sodium lignosulfonate with high performance for supercapacitors. <i>International Journal of Energy Research</i> ,	4.5	2