

Wei Zhang

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.

101
papers

5,325
citations

43
h-index

72
g-index

104
ext. papers

6,213
ext. citations

8.8
avg, IF

5.95
L-index

#	Paper	IF	Citations
101	Nacre-mimetic elastomer composites with synergistic alignments of boron nitride/graphene oxide towards high through-plane thermal conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 156, 106891	8.4	0
100	One-pot superhydrophilic surface modification of waste polyurethane foams for high-efficiency oil/water separation.. <i>Journal of Environmental Management</i> , 2022 , 315, 115140	7.9	0
99	Fabrication and Characterization of PCL/PLGA Coaxial and Bilayer Fibrous Scaffolds for Tissue Engineering. <i>Materials</i> , 2021 , 14,	3.5	3
98	Flexible, all-solid-state supercapacitors derived from waste polyurethane foams. <i>Chemical Engineering Journal</i> , 2021 , 133228	14.7	2
97	Scarf patch repair of honeycomb sandwich composites and its simulation optimisation. <i>Plastics, Rubber and Composites</i> , 2021 , 50, 307-314	1.5	1
96	A hemostatic sponge derived from skin secretion of <i>Andrias davidianus</i> and nanocellulose. <i>Chemical Engineering Journal</i> , 2021 , 416, 129136	14.7	12
95	Multifunctional La(OH) ₃ @cellulose nanofibrous membranes for efficient oil/water separation and selective removal of dyes. <i>Separation and Purification Technology</i> , 2021 , 254, 117603	8.3	19
94	Fabrication and characterization of MnO ₂ -Coated carbon fabrics from silk for shape-editable supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 157289	5.7	5
93	3D printing of robust and biocompatible poly(ethylene glycol)diacrylate/nano-hydroxyapatite composites continuous liquid interface production. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1315-1324	7.3	6
92	A Mussel-Inspired Antibacterial Hydrogel with High Cell Affinity, Toughness, Self-Healing, and Recycling Properties for Wound Healing. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3070-3082	8.3	16
91	Degradation and Characterisation of Electrospun Polycaprolactone (PCL) and Poly(lactic-co-glycolic acid) (PLGA) Scaffolds for Vascular Tissue Engineering. <i>Materials</i> , 2021 , 14,	3.5	8
90	Ti ₃ C ₂ T _x MXene as a novel functional photo blocker for stereolithographic 3D printing of multifunctional gels via Continuous Liquid Interface Production. <i>Composites Part B: Engineering</i> , 2021 , 225, 109261	10	6
89	Bamboo-inspired mechanically flexible and electrically conductive polydimethylsiloxane foam materials with designed hierarchical pore structures for ultra-sensitive and reliable piezoresistive pressure sensor. <i>Composites Part B: Engineering</i> , 2021 , 225, 109243	10	15
88	A TiO ₂ Coated Carbon Aerogel Derived from Bamboo Pulp Fibers for Enhanced Visible Light Photo-Catalytic Degradation of Methylene Blue. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
87	A highly porous fiber electrode derived from <i>Juncus effusus</i> and its shape recovery and electrochemical capacitive properties. <i>Materials Today Energy</i> , 2020 , 17, 100430	7	3
86	Hollow polypyrrole/cellulose hydrogels for high-performance flexible supercapacitors. <i>Energy Storage Materials</i> , 2020 , 31, 135-145	19.4	39
85	Honeycomb-structured carbon aerogels from nanocellulose and skin secretion of <i>Andrias davidianus</i> for highly compressible binder-free supercapacitors. <i>Carbohydrate Polymers</i> , 2020 , 245, 116554	19.3	20

84	Facile synthesis of 3D hierarchical micro-/nanostructures in capillaries for efficient capture of circulating tumor cells. <i>Journal of Colloid and Interface Science</i> , 2020 , 575, 108-118	9.3	4
83	Continuous liquid interface production of alginate/polyacrylamide hydrogels with supramolecular shape memory properties. <i>Carbohydrate Polymers</i> , 2020 , 231, 115736	10.3	32
82	High thermal conductive shape-stabilized phase change materials of polyethylene glycol/boron nitride@chitosan composites for thermal energy storage. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105710	8.4	53
81	3D printed robust superhydrophilic and underwater superoleophobic composite membrane for high efficient oil/water separation. <i>Separation and Purification Technology</i> , 2020 , 237, 116324	8.3	45
80	High-value utilization of biomass waste: from garbage floating on the ocean to high-performance rechargeable ZnMnO ₂ batteries with superior safety. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18198-18206	13.3	13
79	Biodegradable all-cellulose composite membranes for simultaneous oil/water separation and dye removal from water. <i>Carbohydrate Polymers</i> , 2020 , 250, 116872	10.3	36
78	Mass production of high thermal conductive boron nitride/nanofibrillated cellulose composite membranes. <i>Chemical Engineering Journal</i> , 2020 , 383, 123101	14.7	26
77	Highly efficient removal of p-arsanilic acid with Fe(II)/peroxydisulfate under near-neutral conditions. <i>Water Research</i> , 2020 , 177, 115752	12.5	24
76	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
75	In-situ growth of polypyrrole onto bamboo cellulose-derived compressible carbon aerogels for high performance supercapacitors. <i>Electrochimica Acta</i> , 2019 , 301, 55-62	6.7	50
74	Scaffolds for reconstruction of the diaphragm 2019 , 449-474		
73	Scaffolds for blood vessel tissue engineering 2019 , 659-684		
72	Two-dimensional membrane and three-dimensional bulk aerogel materials via top-down wood nanotechnology for multibehavioral and reusable oil/water separation. <i>Chemical Engineering Journal</i> , 2019 , 371, 769-780	14.7	73
71	Z-Schemed WO ₃ /rGO/SnIn ₄ S ₈ Sandwich Nanohybrids for Efficient Visible Light Photocatalytic Water Purification. <i>Catalysts</i> , 2019 , 9, 187	4	14
70	Continuous and scalable manufacture of amphibious energy yarns and textiles. <i>Nature Communications</i> , 2019 , 10, 868	17.4	75
69	Aligned electrospun cellulose scaffolds coated with rhBMP-2 for both in vitro and in vivo bone tissue engineering. <i>Carbohydrate Polymers</i> , 2019 , 213, 27-38	10.3	60
68	Preparation and regeneration of iron-modified nanofibres for low-concentration phosphorus-containing wastewater treatment. <i>Royal Society Open Science</i> , 2019 , 6, 190764	3.3	5
67	Synthesis of photocurable cellulose acetate butyrate resin for continuous liquid interface production of three-dimensional objects with excellent mechanical and chemical-resistant properties. <i>Carbohydrate Polymers</i> , 2019 , 207, 609-618	10.3	10

66	Reusable, salt-tolerant and superhydrophilic cellulose hydrogel-coated mesh for efficient gravity-driven oil/water separation. <i>Chemical Engineering Journal</i> , 2018 , 338, 271-277	14.7	97
65	Mechanically robust and highly compressible electrochemical supercapacitors from nitrogen-doped carbon aerogels. <i>Carbon</i> , 2018 , 127, 236-244	10.4	75
64	Application of Hydrogels in Cartilage Tissue Engineering. <i>Current Stem Cell Research and Therapy</i> , 2018 , 13, 497-516	3.6	9
63	A Hierarchically Nanostructured Cellulose Fiber-Based Triboelectric Nanogenerator for Self-Powered Healthcare Products. <i>Advanced Functional Materials</i> , 2018 , 28, 1805540	15.6	104
62	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
61	Exfoliation/dispersion of low-temperature expandable graphite in nanocellulose matrix by wet co-milling. <i>Carbohydrate Polymers</i> , 2017 , 157, 1434-1441	10.3	13
60	Fabrication and characterization of electrospun cellulose/nano-hydroxyapatite nanofibers for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 568-573	7.9	102
59	Self-Adjusting, Polymeric Multilayered Roll that can Keep the Shapes of the Blood Vessel Scaffolds during Biodegradation. <i>Advanced Materials</i> , 2017 , 29, 1700171	24	72
58	A Highly Stretchable Fiber-Based Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1604378	15.6	230
57	Fabrication and Characterization of Highly Porous Fe(OH) ₃ @Cellulose Hybrid Fibers for Effective Removal of Congo Red from Contaminated Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7723-7732	8.3	51
56	Superhydrophilic graphene oxide@electrospun cellulose nanofiber hybrid membrane for high-efficiency oil/water separation. <i>Carbohydrate Polymers</i> , 2017 , 175, 216-222	10.3	66
55	Ultra-lightweight and highly porous carbon aerogels from bamboo pulp fibers as an effective sorbent for water treatment. <i>Results in Physics</i> , 2017 , 7, 2919-2924	3.7	31
54	One-Step Fabrication of Fe(OH) ₃ @Cellulose Hollow Nanofibers with Superior Capability for Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25339-25349	9.5	29
53	An ultrathin paper-based self-powered system for portable electronics and wireless human-machine interaction. <i>Nano Energy</i> , 2017 , 39, 328-336	17.1	107
52	Grafting of polyethylenimine onto cellulose nanofibers for interfacial enhancement in their epoxy nanocomposites. <i>Carbohydrate Polymers</i> , 2017 , 157, 1419-1425	10.3	40
51	Synthesis of a ferric hydroxide-coated cellulose nanofiber hybrid for effective removal of phosphate from wastewater. <i>Carbohydrate Polymers</i> , 2016 , 154, 40-7	10.3	61
50	High-Performance Fiber-Shaped All-Solid-State Asymmetric Supercapacitors Based on Ultrathin MnO ₂ Nanosheet/Carbon Fiber Cathodes for Wearable Electronics. <i>Advanced Energy Materials</i> , 2016 , 6, 1501458	21.8	362
49	Mechanically Strong and Thermally Responsive Cellulose Nanofibers/Poly(N-isopropylacrylamide) Composite Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4321-4327	8.3	48

48	Biodegradation of nanocrystalline cellulose by two environmentally-relevant consortia. <i>Water Research</i> , 2016 , 104, 137-146	12.5	21
47	Adsorption removal of Congo red from aqueous solution by polyhedral Cu ₂ O nanoparticles: Kinetics, isotherms, thermodynamics and mechanism analysis. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 338-346	5.7	146
46	Water repellent Ag/Ag ₂ O@bamboo cellulose fiber membrane as bioinspired cargo carriers. <i>Carbohydrate Polymers</i> , 2015 , 133, 493-6	10.3	9
45	One-pot liquid-phase exfoliation from graphite to graphene with carbon quantum dots. <i>Nanoscale</i> , 2015 , 7, 10527-34	7.7	52
44	Effective dispersion and crosslinking in PVA/cellulose fiber biocomposites via solid-state mechanochemistry. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 855-61	7.9	31
43	Tissue engineering scaffolds electrospun from cotton cellulose. <i>Carbohydrate Polymers</i> , 2015 , 115, 485-93	10.3	43
42	Ni@Pd core-shell nanoparticles modified fibrous silica nanospheres as highly efficient and recoverable catalyst for reduction of 4-nitrophenol and hydrodechlorination of 4-chlorophenol. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 372-380	21.8	326
41	Recycling and processing of several typical crosslinked polymer scraps with enhanced mechanical properties based on solid-state mechanochemical milling 2015 ,		2
40	A super biosorbent from dendrimer poly(amidoamine)-grafted cellulose nanofibril aerogels for effective removal of Cr(VI). <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14703-14711	13	110
39	Polyethylenimine-grafted cellulose nanofibril aerogels as versatile vehicles for drug delivery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2607-15	9.5	162
38	Reinforcement of all-cellulose nanocomposite films using native cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2014 , 104, 143-50	10.3	64
37	Uniaxially aligned electrospun all-cellulose nanocomposite nanofibers reinforced with cellulose nanocrystals: scaffold for tissue engineering. <i>Biomacromolecules</i> , 2014 , 15, 618-27	6.9	165
36	Acrylic acid grafted and acrylic acid/sodium humate grafted bamboo cellulose nanofibers for Cu ²⁺ adsorption. <i>RSC Advances</i> , 2014 , 4, 55195-55201	3.7	37
35	Preparation, characterization, and properties of polyethylene composites highly filled with calcium carbonate through co-rotating conical twin-screw extrusion. <i>Journal of Vinyl and Additive Technology</i> , 2014 , 20, 108-115	2	4
34	Cellulose hydrogels prepared from micron-sized bamboo cellulose fibers. <i>Carbohydrate Polymers</i> , 2014 , 114, 166-169	10.3	18
33	Flexible, highly transparent and iridescent all-cellulose hybrid nanopaper with enhanced mechanical strength and writable surface. <i>Carbohydrate Polymers</i> , 2014 , 113, 264-71	10.3	42
32	Solvent-free synthesis of carboxylate-functionalized cellulose from waste cotton fabrics for the removal of cationic dyes from aqueous solutions. <i>Cellulose</i> , 2014 , 21, 473-484	5.5	28
31	High performance poly (vinyl alcohol)/cellulose nanocrystals nanocomposites manufactured by injection molding. <i>Cellulose</i> , 2014 , 21, 485-494	5.5	56

30	Mechanically robust, flame-retardant and anti-bacterial nanocomposite films comprised of cellulose nanofibrils and magnesium hydroxide nanoplatelets in a regenerated cellulose matrix. <i>Cellulose</i> , 2014 , 21, 1859-1872	5.5	38
29	In situ synthesis of MnO ₂ coated cellulose nanofibers hybrid for effective removal of methylene blue. <i>Carbohydrate Polymers</i> , 2014 , 110, 302-8	10.3	96
28	Melt-processed poly(vinyl alcohol) composites filled with microcrystalline cellulose from waste cotton fabrics. <i>Carbohydrate Polymers</i> , 2014 , 101, 642-9	10.3	109
27	Aerogels from quaternary ammonium-functionalized cellulose nanofibers for rapid removal of Cr(VI) from water. <i>Carbohydrate Polymers</i> , 2014 , 111, 683-7	10.3	72
26	Preparation and Properties of Chemical Resistant Conductive Composites with Restrained Negative Temperature Coefficient Behaviour Based on Mechanochemically Devulcanised Waste Fluoroelastomers. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2014 , 30, 19-36	1.7	
25	From Thermosetting to Thermoplastic: A Novel One-Pot Approach to Recycle Polyurethane Wastes via Reactive Compounding with Diethanolamine. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2014 , 30, 221-236	1.7	2
24	Mechanochemically activated waste-derived cellulose as a novel functional additive to enhance melt processability and mechanical properties of poly(vinyl alcohol). <i>Journal of Vinyl and Additive Technology</i> , 2014 , 20, 177-184	2	17
23	Solid-state flexible polyaniline/silver cellulose nanofibrils aerogel supercapacitors. <i>Journal of Power Sources</i> , 2014 , 246, 283-289	8.9	103
22	Acetone-soluble cellulose acetate extracted from waste blended fabrics via ionic liquid catalyzed acetylation. <i>Carbohydrate Polymers</i> , 2013 , 98, 405-11	10.3	63
21	Extraction of cellulose nanofibrils from dry softwood pulp using high shear homogenization. <i>Carbohydrate Polymers</i> , 2013 , 97, 695-702	10.3	90
20	Effect of solid-state shear milling on the physicochemical properties of thermally conductive low-temperature expandable graphite/low-density polyethylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 55, 27-34	8.4	17
19	Facile synthesis of tunable silver nanostructures for antibacterial application using cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2013 , 95, 214-9	10.3	94
18	Preparation of low-density polyethylene/low-temperature expandable graphite composites with high thermal conductivity by an in situ expansion melt blending process. <i>Materials & Design</i> , 2013 , 52, 621-629		45
17	Solid-state, flexible, high strength paper-based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5835	13	62
16	A novel reagentless approach for synthesizing cellulose nanocrystal-supported palladium nanoparticles with enhanced catalytic performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8645	13	151
15	Gel-spun fibers from magnesium hydroxide nanoparticles and UHMWPE nanocomposite: The physical and flammability properties. <i>Composites Part B: Engineering</i> , 2013 , 51, 276-281	10	26
14	Microstructure and properties of solvent-resistant fluorine-contained thermoplastic vulcanizates prepared through dynamic vulcanization. <i>Materials & Design</i> , 2013 , 51, 658-664		10
13	A new application of ionic liquids for heterogeneously catalyzed acetylation of cellulose under solvent-free conditions. <i>RSC Advances</i> , 2013 , 3, 7722	3.7	25

12	Thermoplastic polyurethane composites prepared from mechanochemically activated waste cotton fabric and reclaimed polyurethane foam. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3555-3563	2.9	11
11	Morphology, Foaming Rheology and Physical Properties of Ethylene-Propylene Diene Rubber/Ground Tyre Rubber (GTR) Composite Foams: Effect of Mechanochemical Devulcanisation of GTR. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2013 , 29, 81-98	1.7	8
10	Flexible and Transparent Paper-Based Ionic Diode Fabricated from Oppositely Charged Microfibrillated Cellulose. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9227-9234	3.8	52
9	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
8	High efficiency dye-sensitized solar cells based on three-dimensional multilayered ZnO nanowire arrays with "caterpillar-like" structure. <i>Nano Letters</i> , 2012 , 12, 3656-62	11.5	193
7	Preparation, characterization and thermal behavior of poly(vinyl alcohol)/organic montmorillonite nanocomposites through solid-state shear pan-milling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 103, 205-212	4.1	13
6	Mechanochemical activation of cellulose and its thermoplastic polyvinyl alcohol eco-composites with enhanced physicochemical properties. <i>Carbohydrate Polymers</i> , 2011 , 83, 257-263	10.3	87
5	Characterization and Properties of Electroless Nickel Plated Poly (ethylene terephthalate) Nonwoven Fabric Enhanced by Dielectric Barrier Discharge Plasma Pretreatment. <i>Plasma Science and Technology</i> , 2010 , 12, 715-722	1.5	9
4	One-step synthesis of manganese dioxide/polystyrene nanocomposite foams via high internal phase emulsion and study of their catalytic activity. <i>Colloid and Polymer Science</i> , 2010 , 288, 1031-1039	2.4	20
3	Preparation of carboxylate-functionalized cellulose via solvent-free mechanochemistry and its characterization as a biosorbent for removal of Pb ²⁺ from aqueous solution. <i>Journal of Hazardous Materials</i> , 2010 , 181, 468-73	12.8	44
2	Mechanochemical preparation of surface-acetylated cellulose powder to enhance mechanical properties of cellulose-filler-reinforced NR vulcanizates. <i>Composites Science and Technology</i> , 2008 , 68, 2479-2484	8.6	77
1	Morphological and structural development of hardwood cellulose during mechanochemical pretreatment in solid state through pan-milling. <i>Cellulose</i> , 2007 , 14, 447-456	5.5	83