

Wei Zhang

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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 | 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 |
| 100 | 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 |
| 99 | A Highly Stretchable Fiber-Based Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1604378 | 15.6 | 230 |
| 98 | 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 |
| 97 | 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 |
| 96 | 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 |
| 95 | Polyethylenimine-grafted cellulose nanofibril aerogels as versatile vehicles for drug delivery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2607-15 | 9.5 | 162 |
| 94 | 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 |
| 93 | 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 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | A Hierarchically Nanostructured Cellulose Fiber-Based Triboelectric Nanogenerator for Self-Powered Healthcare Products. <i>Advanced Functional Materials</i> , 2018 , 28, 1805540 | 15.6 | 104 |
| 88 | Solid-state flexible polyaniline/silver cellulose nanofibrils aerogel supercapacitors. <i>Journal of Power Sources</i> , 2014 , 246, 283-289 | 8.9 | 103 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |

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| 84 | Facile synthesis of tunable silver nanostructures for antibacterial application using cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2013 , 95, 214-9 | 10.3 | 94 |
| 83 | Extraction of cellulose nanofibrils from dry softwood pulp using high shear homogenization. <i>Carbohydrate Polymers</i> , 2013 , 97, 695-702 | 10.3 | 90 |
| 82 | Mechanochemical activation of cellulose and its thermoplastic polyvinyl alcohol ecomposites with enhanced physicochemical properties. <i>Carbohydrate Polymers</i> , 2011 , 83, 257-263 | 10.3 | 87 |
| 81 | 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 |
| 80 | 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 |
| 79 | Mechanically robust and highly compressible electrochemical supercapacitors from nitrogen-doped carbon aerogels. <i>Carbon</i> , 2018 , 127, 236-244 | 10.4 | 75 |
| 78 | Continuous and scalable manufacture of amphibious energy yarns and textiles. <i>Nature Communications</i> , 2019 , 10, 868 | 17.4 | 75 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | 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 |
| 73 | Reinforcement of all-cellulose nanocomposite films using native cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2014 , 104, 143-50 | 10.3 | 64 |
| 72 | 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 |
| 71 | Solid-state, flexible, high strength paper-based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5835 | 13 | 62 |
| 70 | 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 |
| 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 | High performance poly (vinyl alcohol)/cellulose nanocrystals nanocomposites manufactured by injection molding. <i>Cellulose</i> , 2014 , 21, 485-494 | 5.5 | 56 |
| 67 | 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 |

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| 66 | One-pot liquid-phase exfoliation from graphite to graphene with carbon quantum dots. <i>Nanoscale</i> , 2015 , 7, 10527-34 | 7.7 | 52 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | Tissue engineering scaffolds electrospun from cotton cellulose. <i>Carbohydrate Polymers</i> , 2015 , 115, 485-93 | 10.3 | 43 |
| 57 | 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 |
| 56 | Grafting of polyethylenimine onto cellulose nanofibers for interfacial enhancement in their epoxy nanocomposites. <i>Carbohydrate Polymers</i> , 2017 , 157, 1419-1425 | 10.3 | 40 |
| 55 | Hollow polypyrrole/cellulose hydrogels for high-performance flexible supercapacitors. <i>Energy Storage Materials</i> , 2020 , 31, 135-145 | 19.4 | 39 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Continuous liquid interface production of alginate/polyacrylamide hydrogels with supramolecular shape memory properties. <i>Carbohydrate Polymers</i> , 2020 , 231, 115736 | 10.3 | 32 |
| 50 | 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 |
| 49 | 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 |

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| 48 | One-Step Fabrication of Fe(OH) ₂ @Cellulose Hollow Nanofibers with Superior Capability for Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25339-25349 | 9.5 | 29 |
| 47 | 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 |
| 46 | 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 |
| 45 | Mass production of high thermal conductive boron nitride/nanofibrillated cellulose composite membranes. <i>Chemical Engineering Journal</i> , 2020 , 383, 123101 | 14.7 | 26 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Biodegradation of nanocrystalline cellulose by two environmentally-relevant consortia. <i>Water Research</i> , 2016 , 104, 137-146 | 12.5 | 21 |
| 40 | 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 | 10.3 | 20 |
| 39 | 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 |
| 38 | 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 |
| 37 | Cellulose hydrogels prepared from micron-sized bamboo cellulose fibers. <i>Carbohydrate Polymers</i> , 2014 , 114, 166-169 | 10.3 | 18 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |

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|----|--|------|----|
| 30 | 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 |
| 29 | 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 |
| 28 | High-value utilization of biomass waste: from garbage floating on the ocean to high-performance rechargeable Zn/MnO ₂ batteries with superior safety. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18198-18206 | 13 | 13 |
| 27 | 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 |
| 26 | 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 |
| 25 | Microstructure and properties of solvent-resistant fluorine-contained thermoplastic vulcanizates prepared through dynamic vulcanization. <i>Materials & Design</i> , 2013 , 51, 658-664 | | 10 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | Application of Hydrogels in Cartilage Tissue Engineering. <i>Current Stem Cell Research and Therapy</i> , 2018 , 13, 497-516 | 3.6 | 9 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |

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| 12 | A TiO 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 |
| 11 | 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 |
| 10 | Fabrication and Characterization of PCL/PLGA Coaxial and Bilayer Fibrous Scaffolds for Tissue Engineering. <i>Materials</i> , 2021 , 14, | 3.5 | 3 |
| 9 | Recycling and processing of several typical crosslinked polymer scraps with enhanced mechanical properties based on solid-state mechanochemical milling 2015 , | | 2 |
| 8 | 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 |
| 7 | Flexible, all-solid-state supercapacitors derived from waste polyurethane foams. <i>Chemical Engineering Journal</i> , 2021 , 133228 | 14.7 | 2 |
| 6 | Scarf patch repair of honeycomb sandwich composites and its simulation optimisation. <i>Plastics, Rubber and Composites</i> , 2021 , 50, 307-314 | 1.5 | 1 |
| 5 | 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 |
| 4 | 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 |
| 3 | Scaffolds for reconstruction of the diaphragm 2019 , 449-474 | | |
| 2 | Scaffolds for blood vessel tissue engineering 2019 , 659-684 | | |
| 1 | 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 | |