# Jinfeng Wang

## List of Publications by Year in descending order



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|---|---|---|---|
| 90 papers | 3,302 citations | 126708 33 h-index | 161609 54 g-index |
| 91 all docs | 91 docs citations | 91 times ranked | 4780 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reduced Graphene Oxide/ZnO Composite: Reusable Adsorbent for Pollutant Management. ACS Applied Materials & Interfaces, 2012, 4, 3084-3090. | 4.0 | 264 |
| 2 | Peptide-based biosensors. Talanta, 2015, 136, 114-127. | 2.9 | 225 |
| 3 | Application of anisotropic silver nanoparticles: Multifunctionalization of wool fabric. Journal of Colloid and Interface Science, 2011, 356, 513-518. | 5.0 | 154 |
| 4 | An Ultralight Self-Powered Fire Alarm e-Textile Based on Conductive Aerogel Fiber with Repeatable Temperature Monitoring Performance Used in Firefighting Clothing. ACS Nano, 2022, 16, 2953-2967. | 7.3 | 117 |
| 5 | Advances in photocatalytic self-cleaning, superhydrophobic and electromagnetic interference shielding textile treatments. Advances in Colloid and Interface Science, 2020, 277, 102116. | 7.0 | 98 |
| 6 | Oriented collagen fiber membranes formed through counter-rotating extrusion and their application in tendon regeneration. Biomaterials, 2019, 207, 61-75. | 5.7 | 93 |
| 7 | RGO/ZnO Nanocomposite: An Efficient, Sustainable, Heterogeneous, Amphiphilic Catalyst for Synthesis of 3-Substituted Indoles in Water. ACS Sustainable Chemistry and Engineering, 2015, 3, 9-18. | 3.2 | 84 |
| 8 | Capsular polypyrrole hollow nanofibers: an efficient recyclable adsorbent for hexavalent chromium removal. Journal of Materials Chemistry A, 2015, 3, 15124-15132. | 5.2 | 77 |
| 9 | Conductive Cotton Fabrics for Motion Sensing and Heating Applications. Polymers, 2018, 10, 568. | 2.0 | 76 |
| 10 | Synergic effect within n-type inorganicâ€“p-type organic nano-hybrids in gas sensors. Journal of Materials Chemistry C, 2013, 1, 3017. | 2.7 | 70 |
| 11 | Function improvement of wool fabric based on surface assembly of silica and silver nanoparticles. Chemical Engineering Journal, 2012, 185-186, 366-373. | 6.6 | 69 |
| 12 | Reverse Microemulsion-Mediated Synthesis of SiO<sub>2</sub>-Coated ZnO Composite Nanoparticles: Multiple Cores with Tunable Shell Thickness. ACS Applied Materials & Interfaces, 2010, 2, 957-960. | 4.0 | 68 |
| 13 | Magnetic and mechanical properties of polyvinyl alcohol (PVA) nanocomposites with hybrid nanofillers â€“ Graphene oxide tethered with magnetic Fe3O4 nanoparticles. Chemical Engineering Journal, 2014, 237, 462-468. | 6.6 | 68 |
| 14 | Kinetic investigation into pH-dependent color of anthocyanin and its sensing performance. Dyes and Pigments, 2019, 170, 107643. | 2.0 | 68 |
| 15 | Investigation of Closed-Loop Manufacturing with Acrylonitrile Butadiene Styrene over Multiple Generations Using Additive Manufacturing. ACS Sustainable Chemistry and Engineering, 2019, 7, 13955-13969. | 3.2 | 67 |
| 16 | Transcriptome comparison reveals a genetic network regulating the lower temperature limit in fish. Scientific Reports, 2016, 6, 28952. | 1.6 | 66 |
| 17 | Tuning Mesophase of Ammonium Amphiphile-Encapsulated Polyoxometalate Complexes through Changing Component Structure. Chemistry of Materials, 2008, 20, 514-522. | 3.2 | 64 |
| 18 | Graphene oxide nanoparticles for enhanced photothermal cancer cell therapy under the irradiation of a femtosecond laser beam. Journal of Biomedical Materials Research - Part A, 2014, 102, 2181-2188. | 2.1 | 54 |

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|---|---|---|---|
| 19 | A review on the application of photocatalytic materials on textiles. Textile Reseach Journal, 2015, 85, 1104-1118. | 1.1 | 54 |
| 20 | Reducing the Photocatalytic Activity of Zinc Oxide Quantum Dots by Surface Modification. Journal of the American Ceramic Society, 2009, 92, 2083-2088. | 1.9 | 50 |
| 21 | Effects of alternate partial root-zone irrigation on soil microorganism and maize growth. Plant and Soil, 2008, 302, 45-52. | 1.8 | 49 |
| 22 | Synthesis of silica-coated ZnO nanocomposite: the resonance structure of polyvinyl pyrrolidone (PVP) as a coupling agent. Colloid and Polymer Science, 2010, 288, 1705-1711. | 1.0 | 48 |
| 23 | Easy-handling bamboo-like polypyrrole nanofibrous mats with high adsorption capacity for hexavalent chromium removal. Journal of Colloid and Interface Science, 2018, 529, 385-395. | 5.0 | 47 |
| 24 | Removal of Pb (II) ions using polymer based graphene oxide magnetic nano-sorbent. Chemical Engineering Research and Design, 2016, 104, 472-480. | 2.7 | 46 |
| 25 | Superhydrophobic and photocatalytic self-cleaning cotton fabric using flower-like N-doped TiO2/PDMS coating. Cellulose, 2021, 28, 8807-8820. | 2.4 | 46 |
| 26 | One-step template-free synthesis of 3D functionalized flower-like boron nitride nanosheets for NH<sub>3</sub> and CO<sub>2</sub> adsorption. Nanoscale, 2018, 10, 10979-10985. | 2.8 | 45 |
| 27 | Synthesis, characterization and adsorption properties of superparamagnetic polystyrene/Fe3O4/graphene oxide. Chemical Engineering Journal, 2012, 204-206, 258-263. | 6.6 | 44 |
| 28 | Mesomorphic Structures of Protonated Surfactant-Encapsulated Polyoxometalate Complexes. Journal of Physical Chemistry B, 2008, 112, 3983-3988. | 1.2 | 43 |
| 29 | Tunable photocatalytic selectivity of TiO 2 /SiO 2 nanocomposites: Effect of silica and isolation approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 552, 130-141. | 2.3 | 42 |
| 30 | Environmentally Friendly Flexible Strain Sensor from Waste Cotton Fabrics and Natural Rubber Latex. Polymers, 2019, 11, 404. | 2.0 | 41 |
| 31 | Wet-spinning of fluorescent fibers based on gold nanoclusters-loaded alginate for sensing of heavy metal ions and anti-counterfeiting. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 230, 118031. | 2.0 | 40 |
| 32 | Global identification of the genetic networks andcis-regulatory elements of the cold response in zebrafish. Nucleic Acids Research, 2015, 43, 9198-9213. | 6.5 | 38 |
| 33 | Reduction of the photocatalytic activity of ZnO nanoparticles for UV protection applications. International Journal of Nanotechnology, 2012, 9, 1017. | 0.1 | 37 |
| 34 | Dielectric percolative composites with high dielectric constant and low dielectric loss based on sulfonated poly(aryl ether ketone) and a-MWCNTs coated with polyaniline. Journal of Materials Chemistry C, 2013, 1, 4035. | 2.7 | 33 |
| 35 | Degradation of organic dyes by P25-reduced graphene oxide: Influence of inorganic salts and surfactants. Journal of Environmental Chemical Engineering, 2015, 3, 1437-1443. | 3.3 | 33 |
| 36 | Wet-spinning of highly conductive nanocelluloseâ€“silver fibers. Journal of Materials Chemistry C, 2017, 5, 9673-9679. | 2.7 | 33 |

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|---|---|---|---|
| 37 | Ethanol chemiresistor with enhanced discriminative ability from acetone based on Sr-doped SnO2 nanofibers. Journal of Colloid and Interface Science, 2015, 437, 252-258. | 5.0 | 32 |
| 38 | Hydrophilic PAN based carbon nanofibres with improved graphitic structure and enhanced mechanical performance using ethylenediamine functionalized graphene. RSC Advances, 2017, 7, 2621-2628. | 1.7 | 32 |
| 39 | Recyclable Textiles Functionalized with Reduced Graphene Oxide@ZnO for Removal of Oil Spills and Dye Pollutants. Australian Journal of Chemistry, 2014, 67, 71. | 0.5 | 31 |
| 40 | Superhydrophobic natural melanin-coated cotton with excellent UV protection and personal thermal management functionality. Chemical Engineering Journal, 2022, 433, 133688. | 6.6 | 30 |
| 41 | Rice husk-based adsorbents for removing ammonia: Kinetics, thermodynamics and adsorption mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 105793. | 3.3 | 29 |
| 42 | Titanium dioxide coated carbon foam as microreactor for improved sunlight driven treatment of cotton dyeing wastewater. Journal of Cleaner Production, 2020, 246, 118949. | 4.6 | 28 |
| 43 | Recycled carbon fiber nonwoven functionalized with fluorine-free superhydrophobic PDMS/ZIF-8 coating for efficient oil-water separation. Journal of Environmental Chemical Engineering, 2021, 9, 106329. | 3.3 | 28 |
| 44 | La3+ doped SnO2 nanofibers for rapid and selective H2 sensor with long range linearity. International Journal of Hydrogen Energy, 2019, 44, 8659-8668. | 3.8 | 25 |
| 45 | Hollow Au/Polypyrrole Capsules to Form Porous and Neural Network-Like Nanofibrous Film for Wearable, Super-Rapid, and Ultrasensitive NH<sub>3</sub> Sensor at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 55056-55063. | 4.0 | 25 |
| 46 | Using hydroxy carboxylate to synthesize gold nanoparticles in heating and photochemical reactions and their application in textile colouration. Chemical Engineering Journal, 2011, 172, 601-607. | 6.6 | 24 |
| 47 | Improved thermal and mechanical properties of bacterial cellulose with the introduction of collagen. Cellulose, 2017, 24, 3777-3787. | 2.4 | 23 |
| 48 | Yolk-porous shell nanospheres from siliver-decorated titanium dioxide and silicon dioxide as an enhanced visible-light photocatalyst with guaranteed shielding for organic carrier. Journal of Colloid and Interface Science, 2019, 534, 480-489. | 5.0 | 23 |
| 49 | Improved Performance of Polymer Solar Cells by Thermal Evaporation of AgAl Alloy Nanostructures into the Hole-Transport Layer. ACS Applied Materials & Interfaces, 2016, 8, 26098-26104. | 4.0 | 21 |
| 50 | Functionalization of Silk with In-Situ Synthesized Platinum Nanoparticles. Materials, 2018, 11, 1929. | 1.3 | 21 |
| 51 | Hydrogeochemistry and human health risks of groundwater fluoride in Jinhuiqu irrigation district of Wei river basin, China. Human and Ecological Risk Assessment (HERA), 2019, 25, 230-249. | 1.7 | 21 |
| 52 | Scalable Fabrication of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene/RGO/Carbon Hybrid Aerogel for Organics Absorption and Energy Conversion. ACS Applied Materials & Interfaces, 2021, 13, 51333-51342. | 4.0 | 20 |
| 53 | Quantitative and sensory evaluation of odor retention on polyester/wool blends. Textile Reseach Journal, 2019, 89, 2729-2738. | 1.1 | 18 |
| 54 | Universal endogenous antibody recruiting nanobodies capable of triggering immune effectors for targeted cancer immunotherapy. Chemical Science, 2021, 12, 4623-4630. | 3.7 | 18 |

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|---|---|---|---|
| 55 | Adsorption force of fibronectin controls transmission of cell traction force and subsequent stem cell fate. Biomaterials, 2018, 162, 170-182. | 5.7 | 17 |
| 56 | Surface Treatment Effects on the Mechanical Properties of Silica Carbon Black Reinforced Natural Rubber/Butadiene Rubber Composites. Polymers, 2019, 11, 1763. | 2.0 | 17 |
| 57 | Deodorizing for fiber and fabric: Adsorption, catalysis, source control and masking. Advances in Colloid and Interface Science, 2020, 283, 102243. | 7.0 | 17 |
| 58 | Key role of collagen fibers orientation in casing-meat adhesion. Food Research International, 2016, 89, 439-447. | 2.9 | 15 |
| 59 | Surface chemistry regulates the sensitivity and tolerability of osteoblasts to various magnitudes of fluid shear stress. Journal of Biomedical Materials Research - Part A, 2016, 104, 2978-2991. | 2.1 | 14 |
| 60 | Hierarchically carbonized silk/ceramic composites for electro-thermal conversion. Composites Part A: Applied Science and Manufacturing, 2021, 141, 106237. | 3.8 | 14 |
| 61 | Coal Tar Electrode Pitch Modified Rice Husk Ash as Anode for Lithium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A2425-A2430. | 1.3 | 13 |
| 62 | Numerical Investigation of Influence of the Martensite Volume Fraction on DP Steels Fracture Behavior on the Basis of Digital Material Representation Model. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5852-5865. | 1.1 | 12 |
| 63 | Immobilization of titanium dioxide on PAN fiber as a recyclable photocatalyst via co-dispersion solvent dip coating. Textile Reseach Journal, 2017, 87, 570-581. | 1.1 | 12 |
| 64 | Electron transport enhancement in perovskite solar cell via the polarized BaTiO<sub>3</sub> thin film. Journal of Materials Research, 2020, 35, 2158-2165. | 1.2 | 12 |
| 65 | Fabrication of kapok fibers and natural rubber composites for pressure sensor applications. Cellulose, 2021, 28, 2287-2301. | 2.4 | 12 |
| 66 | Functionality of nano and 3D-microhierarchical TiO2 particles as coagulants for sericin extraction from the silk degumming wastewater. Separation and Purification Technology, 2016, 170, 92-101. | 3.9 | 11 |
| 67 | One-step firing of cellulose fiber and ceramic precursors for functional electro-thermal composites. Materials and Design, 2019, 181, 107941. | 3.3 | 11 |
| 68 | Using a selective cadmium-binding peplipid to create responsive liquid crystalline nanomaterials. Journal of Colloid and Interface Science, 2015, 449, 122-129. | 5.0 | 10 |
| 69 | A biomimetic approach towards the synthesis of TiO2/carbon-clay as a highly recoverable photocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 351, 131-138. | 2.0 | 10 |
| 70 | A convenient oil-water separator from polybutylmethacrylate/graphene-deposited polyethylene terephthalate nonwoven fabricated by a facile coating method. Progress in Organic Coatings, 2018, 115, 181-187. | 1.9 | 10 |
| 71 | Palladium nanoparticle colored cotton fabric as a highly efficient catalyst for colorimetric sensing of H2O2. Cellulose, 2020, 27, 7791-7803. | 2.4 | 9 |
| 72 | Porous, colorful and gas-adsorption powder from wool waste for textile functionalization. Journal of Cleaner Production, 2022, 366, 132805. | 4.6 | 9 |

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|---|---|---|---|
| 73 | Fabrication of PANI@TiO2 nanocomposite and its sunlight-driven photocatalytic effect on cotton fabrics. Journal of the Textile Institute, 2020, , 1-9. | 1.0 | 8 |
| 74 | A flexible and capsular polypyrrole nanotubular film-based pseudo-capacitive electrode with enhanced capacitive properties enabled by Au nanoparticle doping. Journal of Materials Chemistry C, 2020, 8, 3807-3813. | 2.7 | 7 |
| 75 | Mechanical and Thermal Properties Enhancement and Swelling Behavior of Bacterial Cellulose/Collagen/Polyvinyl Alcohol Nanofiber Hydrogel Film. Fibers and Polymers, 2022, 23, 305-314. | 1.1 | 7 |
| 76 | Fine powders from dyed waste wool as odor adsorbent and coloration pigment. Powder Technology, 2022, 400, 117261. | 2.1 | 7 |
| 77 | Ternary graphite nanosheet/copper phthalocyanine/sulfonated poly(aryl ether ketone) dielectric percolative composites: preparation, micromorphologies and dielectric properties. RSC Advances, 2014, 4, 28721-28727. | 1.7 | 6 |
| 78 | Simultaneous PAN Carbonization and Ceramic Sintering for Fabricating Carbon Fiber-Ceramic Composite Heaters. Applied Sciences (Switzerland), 2019, 9, 4945. | 1.3 | 5 |
| 79 | Kinetic and thermodynamic studies on gas adsorption behaviour of natural fibres. Journal of the Textile Institute, 2021, 112, 1390-1402. | 1.0 | 5 |
| 80 | Adsorption Force of Fibronectin: A Balance Regulator to Transmission of Cell Traction Force and Fluid Shear Stress. Biomacromolecules, 2021, 22, 3264-3273. | 2.6 | 5 |
| 81 | Boron nitride-Au (Ag) loaded eggshell membrane with enhanced photothermal property. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128726. | 2.3 | 5 |
| 82 | Facile and Scalable Fabrication of Conductive Ceramic Composite for Energy Conversion and Electromagnetic Interference Shielding. Engineering, 2023, 21, 143-151. | 3.2 | 4 |
| 83 | Application of Green and Physico-Chemical Technologies in Treating Water Polluted by Heavy Metals. , 2016, , 579-614. | | 3 |
| 84 | Vertically aligned Î³-AlOOH nanosheets on Al foils as flexible and reusable substrates for NH3 adsorption. Frontiers of Physics, 2018, 13, 1. | 2.4 | 3 |
| 85 | Sunlight-Driven Photothermal Effect of Composite Eggshell Membrane Coated with Graphene Oxide and Gold Nanoparticles. Applied Sciences (Switzerland), 2019, 9, 4384. | 1.3 | 3 |
| 86 | Characterization and Scalable Production of Industrial Hemp Fiber Filled PLA bio-composites. Journal of Natural Fibers, 2022, 19, 13426-13437. | 1.7 | 3 |
| 87 | Preparation and dielectric properties of sulfonated poly(aryl ether ketone)/acidified graphite nanosheet composites. Journal of Applied Polymer Science, 2014, 131, . | 1.3 | 2 |
| 88 | Shape recovery strain and nanostructures on recovered polyurethane films and their regulation to osteoblasts morphology. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 92, 128-136. | 1.5 | 2 |
| 89 | catena-Poly[[[diaquacopper(II)]-bis[Î¼-1,1â€²-(butane-1,4-diyl)diimidazole-Î²<sup>2</sup> N<sup>3</sup>:N <sup>3â€²</sup>]] dinitrate]. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m1220-m1220. | 0.2 | 0 |
| 90 | Fabrication of ZnO/SiO<inf>2</inf> composite nanospheres with high core-loading levels. , 2010, , . | | 0 |