# Hongzhi Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 175 papers | 12,783 citations | 28274 55 h-index | 27406 106 g-index |
| 191 all docs | 191 docs citations | 191 times ranked | 14858 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Design and Mechanisms of Asymmetric Supercapacitors. Chemical Reviews, 2018, 118, 9233-9280. | 47.7 | 2,379 |
| 2 | Graphene-based materials for flexible supercapacitors. Chemical Society Reviews, 2015, 44, 3639-3665. | 38.1 | 1,015 |
| 3 | 3D Freezeâ€Casting of Cellular Graphene Films for Ultrahighâ€Powerâ€Density Supercapacitors. Advanced Materials, 2016, 28, 6719-6726. | 21.0 | 390 |
| 4 | Origami-inspired active graphene-based paper for programmable instant self-folding walking devices. Science Advances, 2015, 1, e1500533. | 10.3 | 312 |
| 5 | Highly Conductive, Flexible, and Compressible Allâ€Graphene Passive Electronic Skin for Sensing Human Touch. Advanced Materials, 2014, 26, 5018-5024. | 21.0 | 273 |
| 6 | Flexible quasi-solid-state planar micro-supercapacitor based on cellular graphene films. Materials Horizons, 2017, 4, 1145-1150. | 12.2 | 222 |
| 7 | Sheath-run artificial muscles. Science, 2019, 365, 150-155. | 12.6 | 218 |
| 8 | Earth-Abundant Oxygen Electrocatalysts for Alkaline Anion-Exchange-Membrane Water Electrolysis: Effects of Catalyst Conductivity and Comparison with Performance in Three-Electrode Cells. ACS Catalysis, 2019, 9, 7-15. | 11.2 | 189 |
| 9 | Ultrathin, Washable, and Largeâ€Area Graphene Papers for Personal Thermal Management. Small, 2017, 13, 1702645. | 10.0 | 177 |
| 10 | Advanced Functional Fiber and Smart Textile. Advanced Fiber Materials, 2019, 1, 3-31. | 16.1 | 169 |
| 11 | Molecular-channel driven actuator with considerations for multiple configurations and color switching. Nature Communications, 2018, 9, 590. | 12.8 | 159 |
| 12 | High-performance flexible asymmetric supercapacitors based on 3D porous graphene/MnO<sub>2</sub>nanorod and graphene/Ag hybrid thin-film electrodes. Journal of Materials Chemistry C, 2013, 1, 1245-1251. | 5.5 | 156 |
| 13 | An Elastic Transparent Conductor Based on Hierarchically Wrinkled Reduced Graphene Oxide for Artificial Muscles and Sensors. Advanced Materials, 2016, 28, 9491-9497. | 21.0 | 147 |
| 14 | Flexible and high-performance electrochromic devices enabled by self-assembled 2D TiO2/MXene heterostructures. Nature Communications, 2021, 12, 1587. | 12.8 | 143 |
| 15 | Morphology-tailored synthesis of vertically aligned 1D WO<sub>3</sub>nano-structure films for highly enhanced electrochromic performance. Journal of Materials Chemistry A, 2013, 1, 684-691. | 10.3 | 140 |
| 16 | Ion-Transport Design for High-Performance Na<sup>+</sup>-Based Electrochromics. ACS Nano, 2018, 12, 3759-3768. | 14.6 | 136 |
| 17 | MXene-conducting polymer electrochromic microsupercapacitors. Energy Storage Materials, 2019, 20, 455-461. | 18.0 | 136 |
| 18 | Fluoroalkylsilane-Modified Textile-Based Personal Energy Management Device for Multifunctional Wearable Applications. ACS Applied Materials & Interfaces, 2016, 8, 4676-4683. | 8.0 | 130 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Enhanced Power Output of a Triboelectric Nanogenerator Composed of Electrospun Nanofiber Mats Doped with Graphene Oxide. Scientific Reports, 2015, 5, 13942. | 3.3 | 123 |
| 20 | Continuous and scalable manufacture of amphibious energy yarns and textiles. Nature Communications, 2019, 10, 868. | 12.8 | 121 |
| 21 | All-fiber tribo-ferroelectric synergistic electronics with high thermal-moisture stability and comfortability. Nature Communications, 2019, 10, 5541. | 12.8 | 121 |
| 22 | A highly integrated sensing paper for wearable electrochemical sweat analysis. Biosensors and Bioelectronics, 2021, 174, 112828. | 10.1 | 113 |
| 23 | MXene-Coated Air-Permeable Pressure-Sensing Fabric for Smart Wear. ACS Applied Materials & Interfaces, 2020, 12, 46446-46454. | 8.0 | 111 |
| 24 | Aluminumâ€ionâ€Intercalation Supercapacitors with Ultrahigh Areal Capacitance and Highly Enhanced Cycling Stability: Power Supply for Flexible Electrochromic Devices. Small, 2017, 13, 1700380. | 10.0 | 107 |
| 25 | Microfluidic Crystal Engineering of Ï€-Conjugated Polymers. ACS Nano, 2015, 9, 8220-8230. | 14.6 | 102 |
| 26 | High-performance all-solid-state yarn supercapacitors based on porous graphene ribbons. Nano Energy, 2015, 12, 26-32. | 16.0 | 101 |
| 27 | Cladding nanostructured AgNWs-MoS2 electrode material for high-rate and long-life transparent in-plane micro-supercapacitor. Energy Storage Materials, 2019, 16, 212-219. | 18.0 | 99 |
| 28 | Hierarchical NiO microflake films with high coloration efficiency, cyclic stability and low power consumption for applications in a complementary electrochromic device. Nanoscale, 2013, 5, 4808. | 5.6 | 97 |
| 29 | Red, Green, Blue (RGB) Electrochromic Fibers for the New Smart Color Change Fabrics. ACS Applied Materials & Interfaces, 2014, 6, 13043-13050. | 8.0 | 97 |
| 30 | Highâ€Performance Flexible Thermoelectric Devices Based on Allâ€Inorganic Hybrid Films for Harvesting Lowâ€Grade Heat. Advanced Functional Materials, 2019, 29, 1900304. | 14.9 | 97 |
| 31 | Fluorinated metal-organic framework as bifunctional filler toward highly improving output performance of triboelectric nanogenerators. Nano Energy, 2020, 70, 104517. | 16.0 | 97 |
| 32 | A Moisture-Wicking Passive Radiative Cooling Hierarchical Metafabric. ACS Nano, 2022, 16, 2188-2197. | 14.6 | 96 |
| 33 | A multi-responsive water-driven actuator with instant and powerful performance for versatile applications. Scientific Reports, 2015, 5, 9503. | 3.3 | 91 |
| 34 | Synergistic Solvation and Interface Regulations of Ecoâ€Friendly Silk Peptide Additive Enabling Stable Aqueous Zincâ€ion Batteries. Advanced Functional Materials, 2022, 32, . | 14.9 | 91 |
| 35 | Regulation of carbon content in MOF-derived hierarchical-porous NiO@C films for high-performance electrochromism. Materials Horizons, 2019, 6, 571-579. | 12.2 | 90 |
| 36 | S, N Co-Doped Graphene Quantum Dot/TiO2 Composites for Efficient Photocatalytic Hydrogen Generation. Nanoscale Research Letters, 2017, 12, 400. | 5.7 | 87 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Stable Hydrogel Electrolytes for Flexible and Submarine-Use Zn-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 46005-46014. | 8.0 | 87 |
| 38 | Infrared-Radiation-Enhanced Nanofiber Membrane for Sky Radiative Cooling of the Human Body. ACS Applied Materials & Interfaces, 2019, 11, 44673-44681. | 8.0 | 82 |
| 39 | Lattice-contraction triggered synchronous electrochromic actuator. Nature Communications, 2018, 9, 4798. | 12.8 | 80 |
| 40 | Facilitating Interfacial Stability Via Bilayer Heterostructure Solid Electrolyte Toward Highâ€energy, Safe and Adaptable Lithium Batteries. Advanced Energy Materials, 2020, 10, 2000709. | 19.5 | 79 |
| 41 | Bio-applicable and electroactive near-infrared laser-triggered self-healing hydrogels based on graphene networks. Journal of Materials Chemistry, 2012, 22, 14991. | 6.7 | 76 |
| 42 | A wearable, fibroid, self-powered active kinematic sensor based on stretchable sheath-core structural triboelectric fibers. Nano Energy, 2017, 39, 673-683. | 16.0 | 71 |
| 43 | Self-seeded growth of nest-like hydrated tungsten trioxide film directly on FTO substrate for highly enhanced electrochromic performance. Journal of Materials Chemistry A, 2014, 2, 11305-11310. | 10.3 | 70 |
| 44 | Abrasion Resistant/Waterproof Stretchable Triboelectric Yarns Based on Fermat Spirals. Advanced Materials, 2021, 33, e2100782. | 21.0 | 68 |
| 45 | Facile growth of vertically aligned BiOCl nanosheet arrays on conductive glass substrate with high photocatalytic properties. Journal of Materials Chemistry, 2012, 22, 16851. | 6.7 | 67 |
| 46 | Graphene papers: smart architecture and specific functionalization for biomimetics, electrocatalytic sensing and energy storage. Materials Chemistry Frontiers, 2017, 1, 37-60. | 5.9 | 67 |
| 47 | Bipolar carbide-carbon high voltage aqueous lithium-ion capacitors. Nano Energy, 2019, 56, 151-159. | 16.0 | 67 |
| 48 | Cobalt nitride nanoparticle coated hollow carbon spheres with nitrogen vacancies as an electrocatalyst for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 14498-14505. | 10.3 | 66 |
| 49 | Self-weaving WO3 nanoflake films with greatly enhanced electrochromic performance. Journal of Materials Chemistry, 2012, 22, 16633. | 6.7 | 65 |
| 50 | A high efficiency microreactor with Pt/ZnO nanorod arrays on the inner wall for photodegradation of phenol. Journal of Hazardous Materials, 2013, 254-255, 318-324. | 12.4 | 65 |
| 51 | Modifying Perovskite Films with Polyvinylpyrrolidone for Ambient-Air-Stable Highly Bendable Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 35385-35394. | 8.0 | 64 |
| 52 | Spray coated ultrathin films from aqueous tungsten molybdenum oxide nanoparticle ink for high contrast electrochromic applications. Journal of Materials Chemistry C, 2016, 4, 33-38. | 5.5 | 63 |
| 53 | Engineering two-dimensional layered nanomaterials for wearable biomedical sensors and power devices. Materials Chemistry Frontiers, 2018, 2, 1944-1986. | 5.9 | 59 |
| 54 | Selfâ€Powered Interactive Fiber Electronics with Visualâ€“Digital Synergies. Advanced Materials, 2021, 33, e2104681. | 21.0 | 58 |

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|---|---|---|---|
| 55 | Wearable Thermoelectric Devices Based on Au-Decorated Two-Dimensional MoS<sub>2</sub>. ACS Applied Materials & Interfaces, 2018, 10, 33316-33321. | 8.0 | 57 |
| 56 | A highly ionic conductive poly(methyl methacrylate) composite electrolyte with garnet-typed Li6.75La3Zr1.75Nb0.25O12 nanowires. Chemical Engineering Journal, 2019, 375, 121922. | 12.7 | 57 |
| 57 | Hierarchical Compositeâ€Solidâ€Electrolyte with High Electrochemical Stability and Interfacial Regulation for Boosting Ultraâ€Stable Lithium Batteries. Advanced Functional Materials, 2021, 31, . | 14.9 | 57 |
| 58 | Controllable growth of high-quality metal oxide/conducting polymer hierarchical nanoarrays with outstanding electrochromic properties and solar-heat shielding ability. Journal of Materials Chemistry A, 2014, 2, 13541-13549. | 10.3 | 56 |
| 59 | Structural colored fiber fabricated by a facile colloid self-assembly method in micro-space. Chemical Communications, 2011, 47, 12801. | 4.1 | 55 |
| 60 | MoS2/C/C nanofiber with double-layer carbon coating for high cycling stability and rate capability in lithium-ion batteries. Nano Research, 2018, 11, 5866-5878. | 10.4 | 55 |
| 61 | Tunable stable operating potential window for high-voltage aqueous supercapacitors. Nano Energy, 2019, 63, 103848. | 16.0 | 55 |
| 62 | Facile fabrication of a magnetically induced structurally colored fiber and its strain-responsive properties. Journal of Materials Chemistry A, 2015, 3, 11093-11097. | 10.3 | 54 |
| 63 | Highly Integrable Thermoelectric Fiber. ACS Applied Materials & Interfaces, 2020, 12, 33297-33304. | 8.0 | 54 |
| 64 | Highly Strong and Elastic Graphene Fibres Prepared from Universal Graphene Oxide Precursors. Scientific Reports, 2014, 4, 4248. | 3.3 | 53 |
| 65 | Wickingâ€“Polarizationâ€Induced Water Cluster Size Effect on Triboelectric Evaporation Textiles. Advanced Materials, 2021, 33, e2007352. | 21.0 | 53 |
| 66 | Dual-Mechanism and Multimotion Soft Actuators Based on Commercial Plastic Film. ACS Applied Materials & Interfaces, 2018, 10, 15122-15128. | 8.0 | 52 |
| 67 | Structurally colored carbon fibers with controlled optical properties prepared by a fast and continuous electrophoretic deposition method. Nanoscale, 2013, 5, 6917. | 5.6 | 51 |
| 68 | Aqueous synthesis of high bright and tunable near-infrared AgInSe 2 â€“ZnSe quantum dots for bioimaging. Journal of Colloid and Interface Science, 2016, 463, 1-7. | 9.4 | 49 |
| 69 | Constructing three-dimensional quasi-vertical nanosheet architectures from self-assemble two-dimensional WO 3 Â·2H 2 O for efficient electrochromic devices. Applied Surface Science, 2016, 380, 281-287. | 6.1 | 48 |
| 70 | Solutionâ€Processed Porous Tungsten Molybdenum Oxide Electrodes for Energy Storage Smart Windows. Advanced Materials Technologies, 2017, 2, 1700047. | 5.8 | 48 |
| 71 | Grain engineering by ultrasonic substrate vibration post-treatment of wet perovskite films for annealing-free, high performance, and stable perovskite solar cells. Nanoscale, 2018, 10, 8526-8535. | 5.6 | 48 |
| 72 | Continuously Processed, Long Electrochromic Fibers with Multi-Environmental Stability. ACS Applied Materials & Interfaces, 2020, 12, 28451-28460. | 8.0 | 48 |

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|---|---|---|---|
| 73 | Fabrication of large-area and high-crystallinity photoreduced graphene oxide films via reconstructed two-dimensional multilayer structures. NPG Asia Materials, 2014, 6, e119-e119. | 7.9 | 47 |
| 74 | Flexible and thermostable thermoelectric devices based on large-area and porous all-graphene films. Carbon, 2016, 107, 146-153. | 10.3 | 47 |
| 75 | Hydrophobic coating over a CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> absorbing layer towards air stable perovskite solar cells. Journal of Materials Chemistry C, 2016, 4, 6848-6854. | 5.5 | 47 |
| 76 | Prepolymerization-assisted fabrication of an ultrathin immobilized layer to realize a semi-embedded wrinkled AgNW network for a smart electrothermal chromatic display and actuator. Journal of Materials Chemistry C, 2017, 5, 9778-9785. | 5.5 | 46 |
| 77 | Self-powered multifunctional UV and IR photodetector as an artificial electronic eye. Journal of Materials Chemistry C, 2017, 5, 1436-1442. | 5.5 | 45 |
| 78 | 1T-Molybdenum disulfide/reduced graphene oxide hybrid fibers as high strength fibrous electrodes for wearable energy storage. Journal of Materials Chemistry A, 2019, 7, 3143-3149. | 10.3 | 45 |
| 79 | A remote controllable fiber-type near-infrared light-responsive actuator. Chemical Communications, 2017, 53, 11118-11121. | 4.1 | 43 |
| 80 | SnO2 nanorod arrays with tailored area density as efficient electron transport layers for perovskite solar cells. Journal of Power Sources, 2018, 402, 460-467. | 7.8 | 42 |
| 81 | Reduced graphene oxide functionalized stretchable and multicolor electrothermal chromatic fibers. Journal of Materials Chemistry C, 2017, 5, 11448-11453. | 5.5 | 41 |
| 82 | Tuning the reactivity of PbI2 film via monolayer Ti3C2Tx MXene for two-step-processed CH3NH3PbI3 solar cells. Chemical Engineering Journal, 2021, 417, 127912. | 12.7 | 40 |
| 83 | Thermochromic Hydrogel-Functionalized Textiles for Synchronous Visual Monitoring of On-Demand In Vitro Drug Release. ACS Applied Materials & Interfaces, 2020, 12, 51225-51235. | 8.0 | 39 |
| 84 | 1-Ethyl-3-methylimidazolium tetrafluoroborate-doped high ionic conductivity gel electrolytes with reduced anodic reaction potentials for electrochromic devices. Materials and Design, 2017, 118, 279-285. | 7.0 | 38 |
| 85 | Versatile mechanically strong and highly conductive chemically converted graphene aerogels. Carbon, 2017, 125, 352-359. | 10.3 | 38 |
| 86 | High-performance solar cells with induced crystallization of perovskite by an evenly distributed CdSe quantum dots seed-mediated underlayer. Journal of Power Sources, 2018, 376, 46-54. | 7.8 | 38 |
| 87 | High performance stretchable fibrous supercapacitors and flexible strain sensors based on CNTs/MXene-TPU hybrid fibers. Electrochimica Acta, 2021, 395, 139141. | 5.2 | 38 |
| 88 | In Situ Functionalization of Stable 3D Nestâ€Like Networks in Confined Channels for Microfluidic Enrichment and Detection. Advanced Functional Materials, 2014, 24, 1017-1026. | 14.9 | 37 |
| 89 | Thermally Responsive Photonic Fibers Consisting of Chained Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 50844-50851. | 8.0 | 37 |
| 90 | A novel efficient ZnO/Zn(OH)F nanofiber arrays-based versatile microfluidic system for the applications of photocatalysis and histidine-rich protein separation. Sensors and Actuators B: Chemical, 2016, 229, 281-287. | 7.8 | 35 |

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|---|---|---|---|
| 91 | Lightweight, highly bendable and foldable electrochromic films based on all-solution-processed bilayer nanowire networks. Journal of Materials Chemistry C, 2016, 4, 5849-5857. | 5.5 | 34 |
| 92 | A single-walled carbon nanotubes/poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)/copper hexacyanoferrate hybrid film for high-volumetric performance flexible supercapacitors. Journal of Power Sources, 2018, 386, 96-105. | 7.8 | 34 |
| 93 | Construction of hydrated tungsten trioxide nanosheet films for efficient electrochromic performance. RSC Advances, 2015, 5, 196-201. | 3.6 | 33 |
| 94 | Highâ€Performance Ionic Thermoelectric Supercapacitor for Integrated Energy Conversionâ€Storage. Energy and Environmental Materials, 2022, 5, 954-961. | 12.8 | 33 |
| 95 | Transparent Metalâ€“Organic Framework-Based Gel Electrolytes for Generalized Assembly of Quasi-Solid-State Electrochromic Devices. ACS Applied Materials & Interfaces, 2020, 12, 42955-42961. | 8.0 | 32 |
| 96 | Hydrophobic SiO<sub>2</sub> Electret Enhances the Performance of Poly(vinylidene fluoride) Nanofiber-Based Triboelectric Nanogenerator. Journal of Physical Chemistry C, 2016, 120, 26600-26608. | 3.1 | 31 |
| 97 | Largeâ€Grained Perovskite Films Enabled by Oneâ€Step Meniscusâ€Assisted Solution Printing of Crossâ€Aligned Conductive Nanowires for Biodegradable Flexible Solar Cells. Advanced Energy Materials, 2020, 10, 2001185. | 19.5 | 31 |
| 98 | Flexible 3D Porous MoS<sub>2</sub>/CNTs Architectures with ZT of 0.17 at Room Temperature for Wearable Thermoelectric Applications. Advanced Functional Materials, 2020, 30, 2002508. | 14.9 | 31 |
| 99 | Metalâ€“Organic Frameworkâ€Derived Nickel/Cobaltâ€Based Nanohybrids for Sensing Nonâ€Enzymatic Glucose. ChemElectroChem, 2020, 7, 4446-4452. | 3.4 | 30 |
| 100 | Liquid-liquid interface assisted synthesis of SnO2 nanorods with tunable length for enhanced performance in dye-sensitized solar cells. Electrochimica Acta, 2017, 227, 49-60. | 5.2 | 28 |
| 101 | Enhanced immunofluorescence detection of a protein marker using a PAA modified ZnO nanorod array-based microfluidic device. Nanoscale, 2018, 10, 17663-17670. | 5.6 | 28 |
| 102 | Highly sensitive microfluidic detection of carcinoembryonic antigen via a synergetic fluorescence enhancement strategy based on the micro/nanostructure optimization of ZnO nanorod arrays and in situ ZIF-8 coating. Chemical Engineering Journal, 2020, 383, 123230. | 12.7 | 28 |
| 103 | Fabrication of magnetic field induced structural colored films with tunable colors and its application on security materials. Journal of Colloid and Interface Science, 2017, 485, 18-24. | 9.4 | 27 |
| 104 | Skeleton-Structure WS2@CNT Thin-Film Hybrid Electrodes for High-Performance Quasi-Solid-State Flexible Supercapacitors. Frontiers in Chemistry, 2020, 8, 442. | 3.6 | 27 |
| 105 | Layer-by-layer assembled triphenylene-based MOFs films for electrochromic electrode. Inorganic Chemistry Communication, 2021, 123, 108354. | 3.9 | 27 |
| 106 | One-pot Hydrothermal Synthesis of N-Doped Carbon Quantum Dots Using the Waste of Shrimp for Hydrogen Evolution from Formic Acid. Chemistry Letters, 2015, 44, 241-243. | 1.3 | 26 |
| 107 | Conjugated Polymer Alignment: Synergisms Derived from Microfluidic Shear Design and UV Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 24761-24772. | 8.0 | 26 |
| 108 | Facile fabrication of magnetically responsive PDMS fiber for camouflage. Journal of Colloid and Interface Science, 2016, 483, 11-16. | 9.4 | 26 |

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|---|---|---|---|
| 109 | Calligraphy-inspired brush written foldable supercapacitors. Nano Energy, 2017, 38, 428-437. | 16.0 | 26 |
| 110 | Enhanced Piezoelectric Performance of Electrospun Polyvinylidene Fluoride Doped with Inorganic Salts. Macromolecular Materials and Engineering, 2017, 302, 1700214. | 3.6 | 26 |
| 111 | A kirigami-inspired island-chain design for wearable moistureproof perovskite solar cells with high stretchability and performance stability. Nanoscale, 2020, 12, 3646-3656. | 5.6 | 26 |
| 112 | Emerging Two-dimensional Materials Constructed Nanofluidic Fiber: Properties, Preparation and Applications. Advanced Fiber Materials, 2022, 4, 129-144. | 16.1 | 26 |
| 113 | Graphene-carbon nanotube papers for energy conversion and storage under sunlight and heat. Carbon, 2015, 95, 150-156. | 10.3 | 24 |
| 114 | Microfluidic spinning of editable polychromatic fibers. Journal of Colloid and Interface Science, 2020, 558, 115-122. | 9.4 | 24 |
| 115 | A portable ascorbic acid in sweat analysis system based on highly crystalline conductive nickel-based metal-organic framework (Ni-MOF). Journal of Colloid and Interface Science, 2022, 616, 326-337. | 9.4 | 24 |
| 116 | Antisolvent-Derived Intermediate Phases for Low-Temperature Flexible Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 6477-6486. | 5.1 | 23 |
| 117 | Composite Solid Electrolytes: Facilitating Interfacial Stability Via Bilayer Heterostructure Solid Electrolyte Toward Highâ€energy, Safe and Adaptable Lithium Batteries (Adv. Energy Mater. 31/2020). Advanced Energy Materials, 2020, 10, 2070131. | 19.5 | 23 |
| 118 | Highly efficient flexible perovskite solar cells made via ultrasonic vibration assisted room temperature cold sintering. Chemical Engineering Journal, 2020, 394, 124887. | 12.7 | 23 |
| 119 | Ultra-stretchable, self-adhesive, transparent, and ionic conductive organohydrogel for flexible sensor. APL Materials, 2021, 9, . | 5.1 | 23 |
| 120 | Solvent vapor annealing of oriented PbI2 films for improved crystallization of perovskite films in the air. Solar Energy Materials and Solar Cells, 2017, 166, 167-175. | 6.2 | 22 |
| 121 | NiCoâ€“NiCoO2/carbon hollow nanocages for non-enzyme glucose detection. Electrochimica Acta, 2021, 381, 138259. | 5.2 | 22 |
| 122 | Reagentâ€Free Synthesis and Plasmonic Antioxidation of Unique Nanostructured Metalâ€“Metal Oxide Coreâ€“Shell Microfibers. Advanced Materials, 2016, 28, 4097-4104. | 21.0 | 21 |
| 123 | Controllable construction of micro/nanostructured NiO arrays in confined microchannels via microfluidic chemical fabrication for highly efficient and specific absorption of abundant proteins. Journal of Materials Chemistry B, 2015, 3, 4272-4281. | 5.8 | 19 |
| 124 | Biocompatible and colloidally stabilized mPEG-PE/calcium phosphate hybrid nanoparticles loaded with siRNAs targeting tumors. Oncotarget, 2016, 7, 2855-2866. | 1.8 | 19 |
| 125 | A strong and flexible electronic vessel for real-time monitoring of temperature, motions and flow. Nanoscale, 2017, 9, 17821-17828. | 5.6 | 19 |
| 126 | Integrated Ionicâ€Additive Assisted Wetâ€Spinning of Highly Conductive and Stretchable PEDOT:PSS Fiber for Fibrous Organic Electrochemical Transistors. Advanced Electronic Materials, 2021, 7, 2100231. | 5.1 | 19 |

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|---|---|---|---|
| 127 | Three-Dimensional Clustered Nanostructures for Microfluidic Surface-Enhanced Raman Detection. ACS Applied Materials & Interfaces, 2016, 8, 24974-24981. | 8.0 | 18 |
| 128 | A flexible metallic actuator using reduced graphene oxide as a multifunctional component. Nanoscale, 2017, 9, 12963-12968. | 5.6 | 18 |
| 129 | ZnSâ€“CdSâ€“TaON nanocomposites with enhanced stability and photocatalytic hydrogen evolution activity. Journal of Sol-Gel Science and Technology, 2019, 91, 82-91. | 2.4 | 18 |
| 130 | High Volumetric Energy Density Asymmetric Fibrous Supercapacitors with Coaxial Structure Based on Graphene/MnO<sub>2</sub> Hybrid Fibers. ChemElectroChem, 2020, 7, 4641-4648. | 3.4 | 18 |
| 131 | Stretchable electrothermochromic fibers based on hierarchical porous structures with electrically conductive dual-pathways. Science China Materials, 2020, 63, 2582-2589. | 6.3 | 17 |
| 132 | Bi<sub>2</sub>Te<sub>3</sub> Plates with Single Nanopore: The Formation of Surface Defects and Self-Repair Growth. Chemistry of Materials, 2018, 30, 1965-1970. | 6.7 | 16 |
| 133 | Defect-engineered bilayer MOFs separator for high stability lithium-sulfur batteries. Journal of Alloys and Compounds, 2021, 874, 159917. | 5.5 | 16 |
| 134 | Mechanical design of brush coating technology for the alignment of one-dimension nanomaterials. Journal of Colloid and Interface Science, 2021, 583, 188-195. | 9.4 | 15 |
| 135 | Core-shell structured SiO2@ZrO2@SiO2 filler for radiopacity and ultra-low shrinkage dental composite resins. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104593. | 3.1 | 15 |
| 136 | Electrochemical Actuators with Multicolor Changes and Multidirectional Actuation. Small, 2022, 18, e2107778. | 10.0 | 15 |
| 137 | Rapid formation of superelastic 3D reduced graphene oxide networks with simultaneous removal of HI utilizing NIR irradiation. Journal of Materials Chemistry A, 2015, 3, 9882-9889. | 10.3 | 14 |
| 138 | Reagent-Free Electrophoretic Synthesis of Few-Atom-Thick Metal Oxide Nanosheets. Chemistry of Materials, 2017, 29, 1439-1446. | 6.7 | 14 |
| 139 | Highly Aligned Molybdenum Trioxide Nanobelts for Flexible Thin-Film Transistors and Supercapacitors: Macroscopic Assembly and Anisotropic Electrical Properties. ACS Applied Nano Materials, 2019, 2, 1466-1471. | 5.0 | 14 |
| 140 | Flexible photodetector based on cotton coated with reduced graphene oxide and sulfur and nitrogen co-doped graphene quantum dots. Journal of Materials Science, 2019, 54, 3242-3251. | 3.7 | 14 |
| 141 | Scalable fluid-spinning nanowire-based inorganic semiconductor yarns for electrochromic actuators. Materials Horizons, 2021, 8, 1711-1721. | 12.2 | 14 |
| 142 | Laser irradiated self-supporting and flexible 3-dimentional graphene-based film electrode with promising electrochemical properties. RSC Advances, 2015, 5, 47074-47079. | 3.6 | 13 |
| 143 | Solvatochromic structural color fabrics with favorable wearability properties. Journal of Materials Chemistry C, 2019, 7, 4855-4862. | 5.5 | 13 |
| 144 | Independent dual-responsive Janus chromic fibers. Science China Materials, 2021, 64, 1770-1779. | 6.3 | 13 |

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|---|---|---|---|
| 145 | Multifunctional Mechanical Sensing Electronic Device Based on Triboelectric Anisotropic Crumpled Nanofibrous Mats. ACS Applied Materials & Interfaces, 2021, 13, 55481-55488. | 8.0 | 13 |
| 146 | Highly integrated fiber-shaped thermoelectric generators with radially heterogeneous interlayers. Nano Energy, 2022, 95, 107055. | 16.0 | 13 |
| 147 | Flow Effects on the Controlled Growth of Nanostructured Networks at Microcapillary Walls for Applications in Continuous Flow Reactions. ACS Applied Materials & Interfaces, 2015, 7, 21580-21588. | 8.0 | 12 |
| 148 | Three-dimensional ordered titanium dioxide-zirconium dioxide film-based microfluidic device for efficient on-chip phosphopeptide enrichment. Journal of Colloid and Interface Science, 2016, 478, 227-235. | 9.4 | 12 |
| 149 | Visibly vapor-responsive structurally colored carbon fibers prepared by an electrophoretic deposition method. RSC Advances, 2016, 6, 16319-16322. | 3.6 | 12 |
| 150 | Light-driven artificial muscles based on electrospun microfiber yarns. Science China Technological Sciences, 2019, 62, 965-970. | 4.0 | 12 |
| 151 | Highly efficient walking perovskite solar cells based on thermomechanical polymer films. Journal of Materials Chemistry A, 2019, 7, 26154-26161. | 10.3 | 12 |
| 152 | Controlled preparation of Î²-Bi2O3/Mgâ€“Al mixed metal oxides composites with enhanced visible light photocatalytic performance. Research on Chemical Intermediates, 2020, 46, 5009-5021. | 2.7 | 12 |
| 153 | Microstructural origin of selective water oxidation to hydrogen peroxide at low overpotentials: a study on Mn-alloyed TiO<sub>2</sub>. Journal of Materials Chemistry A, 2021, 9, 18498-18505. | 10.3 | 12 |
| 154 | Ultra-stable ionic-liquid-based electrochromism enabled by metal-organic frameworks. Cell Reports Physical Science, 2022, 3, 100866. | 5.6 | 12 |
| 155 | High power factor n-type Ag<sub>2</sub>Se/SWCNTs hybrid film for flexible thermoelectric generator. Journal Physics D: Applied Physics, 2021, 54, 434004. | 2.8 | 11 |
| 156 | Controlling the transformation of intermediate phase under near-room temperature for improving the performance of perovskite solar cells. Solar Energy, 2019, 186, 225-232. | 6.1 | 10 |
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