

Tao Chen

List of Publications by Year in descending order

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Version: 2024-02-01

396
papers

20,931
citations

8181

76
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16183

124
g-index

406
all docs

406
docs citations

406
times ranked

21391
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Temperature dependence of graphene oxide reduced by hydrazine hydrate. Nanotechnology, 2011, 22, 055705. | 2.6 | 578 |
| 2 | Recent Progress in Biomimetic Anisotropic Hydrogel Actuators. Advanced Science, 2019, 6, 1801584. | 11.2 | 403 |
| 3 | Supramolecular shape memory hydrogels: a new bridge between stimuli-responsive polymers and supramolecular chemistry. Chemical Society Reviews, 2017, 46, 1284-1294. | 38.1 | 381 |
| 4 | Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. ACS Nano, 2017, 11, 3841-3850. | 14.6 | 370 |
| 5 | Flexible and Adhesive Surface Enhance Raman Scattering Active Tape for Rapid Detection of Pesticide Residues in Fruits and Vegetables. Analytical Chemistry, 2016, 88, 2149-2155. | 6.5 | 369 |
| 6 | Organic-Inorganic Hybrid Hollow Spheres Prepared from TiO_2 -Stabilized Pickering Emulsion Polymerization. Advanced Materials, 2007, 19, 2286-2289. | 21.0 | 367 |
| 7 | Triboelectric nanogenerator sensors for soft robotics aiming at digital twin applications. Nature Communications, 2020, 11, 5381. | 12.8 | 363 |
| 8 | Bioinspired Anisotropic Hydrogel Actuators with On-Off Switchable and Color-Tunable Fluorescence Behaviors. Advanced Functional Materials, 2018, 28, 1704568. | 14.9 | 353 |
| 9 | Stimulus-responsive polymer brushes on surfaces: Transduction mechanisms and applications. Progress in Polymer Science, 2010, 35, 94-112. | 24.7 | 348 |
| 10 | Janus Polymer/Carbon Nanotube Hybrid Membranes for Oil/Water Separation. ACS Applied Materials & Interfaces, 2014, 6, 16204-16209. | 8.0 | 283 |
| 11 | A Hierarchically Nanostructured Composite of MnO_2 /Conjugated Polymer/Graphene for High-Performance Lithium Ion Batteries. Advanced Energy Materials, 2011, 1, 736-741. | 19.5 | 279 |
| 12 | Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. Materials Horizons, 2021, 8, 351-369. | 12.2 | 250 |
| 13 | Functionalization of Biodegradable PLA Nonwoven Fabric as Superoleophilic and Superhydrophobic Material for Efficient Oil Absorption and Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 5968-5973. | 8.0 | 241 |
| 14 | Dual-drug delivery system based on hydrogel/micelle composites. Biomaterials, 2009, 30, 2606-2613. | 11.4 | 240 |
| 15 | CO_2 and temperature dual responsive "Smart" MXene phases. Chemical Communications, 2015, 51, 314-317. | 4.1 | 222 |
| 16 | Patterned polymer brushes. Chemical Society Reviews, 2012, 41, 3280. | 38.1 | 212 |
| 17 | Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. Angewandte Chemie - International Edition, 2019, 58, 16243-16251. | 13.8 | 212 |
| 18 | Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. Advanced Materials, 2020, 32, e2004290. | 21.0 | 210 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A Multiresponsive Anisotropic Hydrogel with Macroscopic 3D Complex Deformations. <i>Advanced Functional Materials</i> , 2016, 26, 8670-8676. | 14.9 | 209 |
| 20 | Hotspot-Induced Transformation of Surface-Enhanced Raman Scattering Fingerprints. <i>ACS Nano</i> , 2010, 4, 3087-3094. | 14.6 | 203 |
| 21 | Controlled Assembly of Eccentrically Encapsulated Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2008, 130, 11858-11859. | 13.7 | 201 |
| 22 | Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1320-1327. | 5.5 | 201 |
| 23 | A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. <i>Nano Energy</i> , 2019, 59, 422-433. | 16.0 | 198 |
| 24 | Robust preparation of superhydrophobic polymer/carbon nanotube hybrid membranes for highly effective removal of oils and separation of water-in-oil emulsions. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15268. | 10.3 | 194 |
| 25 | Triboelectric Self-Powered Wearable Flexible Patch as 3D Motion Control Interface for Robotic Manipulator. <i>ACS Nano</i> , 2018, 12, 11561-11571. | 14.6 | 179 |
| 26 | Trends in polymeric shape memory hydrogels and hydrogel actuators. <i>Polymer Chemistry</i> , 2019, 10, 1036-1055. | 3.9 | 172 |
| 27 | Self-healable macro-/microscopic shape memory hydrogels based on supramolecular interactions. <i>Chemical Communications</i> , 2014, 50, 12277-12280. | 4.1 | 168 |
| 28 | Drug releasing behavior of hybrid micelles containing polypeptide triblock copolymer. <i>Biomaterials</i> , 2009, 30, 108-117. | 11.4 | 164 |
| 29 | Network cracks-based wearable strain sensors for subtle and large strain detection of human motions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5140-5147. | 5.5 | 164 |
| 30 | Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8608-8624. | 13.8 | 163 |
| 31 | A fast chemical approach towards Sb ₂ S ₃ film with a large grain size for high-performance planar heterojunction solar cells. <i>Nanoscale</i> , 2017, 9, 3386-3390. | 5.6 | 145 |
| 32 | 3D Fluorescent Hydrogel Origami for Multistage Data Security Protection. <i>Advanced Functional Materials</i> , 2019, 29, 1905514. | 14.9 | 145 |
| 33 | Conductive Self-Healing Nanocomposite Hydrogel Skin Sensors with Antifreezing and Thermoresponsive Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3068-3079. | 8.0 | 140 |
| 34 | A fully hydrophobic ionogel enables highly efficient wearable underwater sensors and communicators. <i>Materials Horizons</i> , 2021, 8, 2761-2770. | 12.2 | 138 |
| 35 | A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3640-3646. | 13.8 | 137 |
| 36 | Stretchable supramolecular hydrogels with triple shape memory effect. <i>Chemical Science</i> , 2016, 7, 6715-6720. | 7.4 | 134 |

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|----|---|------|-----------|
| 37 | pH- and Sugar-Induced Shape Memory Hydrogel Based on Reversible Phenylboronic Acid-Diol Ester Bonds. <i>Macromolecular Rapid Communications</i> , 2015, 36, 533-537. | 3.9 | 131 |
| 38 | Bivalve Shell: Not an Abundant Useless Waste but a Functional and Versatile Biomaterial. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2502-2530. | 12.8 | 128 |
| 39 | Recent Progress in Smart Polymeric Gel-Based Information Storage for Anti-Counterfeiting. <i>Advanced Materials</i> , 2022, 34, . | 21.0 | 122 |
| 40 | High Performance Humidity Fluctuation Sensor for Wearable Devices via a Bioinspired Atomic-Precise Tunable Graphene-Polymer Heterogeneous Sensing Junction. <i>Chemistry of Materials</i> , 2018, 30, 4343-4354. | 6.7 | 120 |
| 41 | Hierarchical Flowerlike Gold Nanoparticles Labeled Immunochromatography Test Strip for Highly Sensitive Detection of <i>Escherichia coli</i> O157:H7. <i>Langmuir</i> , 2015, 31, 5537-5544. | 3.5 | 118 |
| 42 | CRISPR-Cas9 Targeting of PCSK9 in Human Hepatocytes In Vivo—Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 783-786. | 2.4 | 118 |
| 43 | A scalable, low-cost and robust photo-thermal fabric with tunable and programmable 2D/3D structures towards environmentally adaptable liquid/solid-medium water extraction. <i>Nano Energy</i> , 2019, 65, 104002. | 16.0 | 115 |
| 44 | Heterogeneous Fluorescent Organohydrogel Enables Dynamic Anti-Counterfeiting. <i>Advanced Functional Materials</i> , 2021, 31, 2108365. | 14.9 | 114 |
| 45 | Exploring interface confined water flow and evaporation enables solar-thermal-electro integration towards clean water and electricity harvest via asymmetric functionalization strategy. <i>Nano Energy</i> , 2020, 68, 104385. | 16.0 | 113 |
| 46 | Tillandsia-Inspired Hygroscopic Photothermal Organogels for Efficient Atmospheric Water Harvesting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19237-19246. | 13.8 | 112 |
| 47 | Solution-Processable Ionic Liquid as an Independent or Modifying Electron Transport Layer for High-Efficiency Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34464-34473. | 8.0 | 111 |
| 48 | Asymmetric elastoplasticity of stacked graphene assembly actualizes programmable untethered soft robotics. <i>Nature Communications</i> , 2020, 11, 4359. | 12.8 | 110 |
| 49 | Underwater superoleophobic carbon nanotubes/core-shell polystyrene@Au nanoparticles composite membrane for flow-through catalytic decomposition and oil/water separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10810-10815. | 10.3 | 105 |
| 50 | Light-Controlled Shrinkage of Large-Area Gold Nanoparticle Monolayer Film for Tunable SERS Activity. <i>Chemistry of Materials</i> , 2018, 30, 1989-1997. | 6.7 | 103 |
| 51 | Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. <i>Journal of Materiomics</i> , 2020, 6, 86-101. | 5.7 | 102 |
| 52 | Light-Triggered Reversible Self-Assembly of Gold Nanoparticle Oligomers for Tunable SERS. <i>Langmuir</i> , 2015, 31, 1164-1171. | 3.5 | 101 |
| 53 | ATRP with a light switch: photoinduced ATRP using a household fluorescent lamp. <i>Polymer Chemistry</i> , 2014, 5, 4790-4796. | 3.9 | 98 |
| 54 | Actuating and memorizing bilayer hydrogels for a self-deformed shape memory function. <i>Chemical Communications</i> , 2018, 54, 1229-1232. | 4.1 | 98 |

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|----|---|------|-----------|
| 55 | Pickering Stabilization as a Tool in the Fabrication of Complex Nanopatterned Silica Microcapsules. <i>Langmuir</i> , 2007, 23, 9527-9530. | 3.5 | 95 |
| 56 | Polymeric and biomacromolecular brush nanostructures: progress in synthesis, patterning and characterization. <i>Soft Matter</i> , 2008, 4, 1774. | 2.7 | 95 |
| 57 | Polymeric micelles formed by polypeptide graft copolymer and its mixtures with polypeptide block copolymer. <i>Polymer</i> , 2006, 47, 4485-4489. | 3.8 | 94 |
| 58 | Fe ³⁺ , pH-, Thermoresponsive Supramolecular Hydrogel with Multishape Memory Effect. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9038-9044. | 8.0 | 94 |
| 59 | Controlled functionalization of carbon nanotubes as superhydrophobic material for adjustable oil/water separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4124-4128. | 10.3 | 88 |
| 60 | Biodegradable PLA Nonwoven Fabric with Controllable Wettability for Efficient Water Purification and Photocatalysis Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2445-2452. | 6.7 | 87 |
| 61 | Mussel-inspired multifunctional supramolecular hydrogels with self-healing, shape memory and adhesive properties. <i>Polymer Chemistry</i> , 2016, 7, 5343-5346. | 3.9 | 86 |
| 62 | Bimetallic Au/Ag Core-Shell Superstructures with Tunable Surface Plasmon Resonance in the Near-Infrared Region and High Performance Surface-Enhanced Raman Scattering. <i>Langmuir</i> , 2017, 33, 5378-5384. | 3.5 | 86 |
| 63 | Nanozyme-based lateral flow assay for the sensitive detection of Escherichia coli O157:H7 in milk. <i>Journal of Dairy Science</i> , 2018, 101, 5770-5779. | 3.4 | 86 |
| 64 | A self-protective, reproducible textile sensor with high performance towards human-machine interactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26631-26640. | 10.3 | 86 |
| 65 | Nanoparticle-Polymer Synergies in Nanocomposite Hydrogels: From Design to Application. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800337. | 3.9 | 85 |
| 66 | Bright and sensitive ratiometric fluorescent probe enabling endogenous FA imaging and mechanistic exploration of indirect oxidative damage due to FA in various living systems. <i>Chemical Science</i> , 2017, 8, 7851-7861. | 7.4 | 84 |
| 67 | Multifunctional Polyhedral Oligomeric Silsesquioxane (POSS) Based Hybrid Porous Materials for CO ₂ Uptake and Iodine Adsorption. <i>Polymers</i> , 2021, 13, 221. | 4.5 | 84 |
| 68 | A Logic-Based Diagnostic and Therapeutic Hydrogel with Multistimuli Responsiveness to Orchestrate Diabetic Bone Regeneration. <i>Advanced Materials</i> , 2022, 34, e2108430. | 21.0 | 84 |
| 69 | Optical Nanoimaging for Block Copolymer Self-Assembly. <i>Journal of the American Chemical Society</i> , 2015, 137, 2436-2439. | 13.7 | 83 |
| 70 | Mechanically robust, solar-driven, and degradable lignin-based polyurethane adsorbent for efficient crude oil spill remediation. <i>Chemical Engineering Journal</i> , 2021, 415, 128956. | 12.7 | 83 |
| 71 | A multi-responsive hydrogel with a triple shape memory effect based on reversible switches. <i>Chemical Communications</i> , 2016, 52, 13292-13295. | 4.1 | 82 |
| 72 | Selenium-Graded Sb ₂ (S _x Se _x) ₃ for Planar Heterojunction Solar Cell Delivering a Certified Power Conversion Efficiency of 5.71%. <i>Solar Rrl</i> , 2017, 1, 1700017. | 5.8 | 82 |

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|----|---|------|-----------|
| 73 | Collective behaviors mediated multifunctional black sand aggregate towards environmentally adaptive solar-to-thermal purified water harvesting. <i>Nano Energy</i> , 2020, 68, 104311. | 16.0 | 81 |
| 74 | Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21890-21898. | 13.8 | 80 |
| 75 | Converting Pomelo Peel into Eco-friendly and Low-Consumption Photothermic Biomass Sponge toward Multifunctional Solar-to-Heat Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5328-5337. | 6.7 | 79 |
| 76 | Self-Assembly of Poly(β -benzyl-L-glutamate)-graft-Poly(ethylene glycol) and Its Mixtures with Poly(β -benzyl-L-glutamate) Homopolymer. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1241-1246. | 3.9 | 78 |
| 77 | Ultrastable tetraphenyl- <i>p</i> -phenylenediamine-based covalent organic frameworks as platforms for high-performance electrochemical supercapacitors. <i>Chemical Communications</i> , 2019, 55, 14890-14893. | 4.1 | 78 |
| 78 | The biocompatibility of titanium cardiovascular devices seeded with autologous blood-derived endothelial progenitor cells. <i>Biomaterials</i> , 2011, 32, 10-18. | 11.4 | 77 |
| 79 | Thermoelectric Bi ₂ Te ₃ -improved charge collection for high-performance dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 6294-6298. | 30.8 | 77 |
| 80 | Successive surface engineering of TiO ₂ compact layers via dual modification of fullerene derivatives affording hysteresis-suppressed high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1724-1733. | 10.3 | 77 |
| 81 | Super-helices self-assembled from a binary system of amphiphilic polypeptide block copolymers and polypeptide homopolymers. <i>Chemical Communications</i> , 2009, , 2709. | 4.1 | 76 |
| 82 | Crystallinity and defect state engineering in organo-lead halide perovskite for high-efficiency solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3806-3812. | 10.3 | 76 |
| 83 | Ultrafast and Efficient Detection of Formaldehyde in Aqueous Solutions Using Chitosan-based Fluorescent Polymers. <i>ACS Sensors</i> , 2018, 3, 2394-2401. | 7.8 | 76 |
| 84 | A Hollow Microtubular Triazine- and Benzobisoxazole-Based Covalent Organic Framework Presenting Sponge-Like Shells That Functions as a High-Performance Supercapacitor. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1429-1435. | 3.3 | 76 |
| 85 | Glucose-responsive polymer brushes for microcantilever sensing. <i>Journal of Materials Chemistry</i> , 2010, 20, 3391. | 6.7 | 74 |
| 86 | Anti-freezing organohydrogel triboelectric nanogenerator toward highly efficient and flexible human-machine interaction at $\sim 30^{\circ}\text{C}$. <i>Nano Energy</i> , 2021, 90, 106614. | 16.0 | 74 |
| 87 | Wafer-scale synthesis of defined polymer brushes under ambient conditions. <i>Polymer Chemistry</i> , 2015, 6, 8176-8183. | 3.9 | 73 |
| 88 | Nonconjugated Polymer Poly(vinylpyrrolidone) as an Efficient Interlayer Promoting Electron Transport for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32957-32964. | 8.0 | 73 |
| 89 | Rationally Optimized Fluorescent Probe for Imaging Mitochondrial SO ₂ in HeLa Cells and Zebrafish. <i>Analytical Chemistry</i> , 2018, 90, 12442-12448. | 6.5 | 73 |
| 90 | Micro-/Macroscopically Synergetic Control of Switchable 2D/3D Photothermal Water Purification Enabled by Robust, Portable, and Cost-Effective Cellulose Papers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15498-15506. | 8.0 | 73 |

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|-----|--|------|-----------|
| 91 | pH and Thermo Dual-Responsive Fluorescent Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800648. | 3.9 | 73 |
| 92 | Direct solution deposition of device quality Sb ₂ S ₃ -xSex films for high efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 52-58. | 6.2 | 72 |
| 93 | Progress in aggregation-induced emission-active fluorescent polymeric hydrogels. <i>Aggregate</i> , 2021, 2, e37. | 9.9 | 71 |
| 94 | Recent Progress in Superhydrophilic Carbon-Based Composite Membranes for Oil/Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36679-36696. | 8.0 | 70 |
| 95 | Tunable wettability in surface-modified ZnO-based hierarchical nanostructures. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 69 |
| 96 | Electric field induced structural color changes of SiO ₂ @TiO ₂ core-shell colloidal suspensions. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1990. | 5.5 | 69 |
| 97 | Giant Gold Nanowire Vesicle-Based Colorimetric and SERS Dual-Mode Immunosensor for Ultrasensitive Detection of <i>Vibrio parahaemolyticus</i> . <i>Analytical Chemistry</i> , 2018, 90, 6124-6130. | 6.5 | 69 |
| 98 | Tough and Fatigue Resistant Biomimetic Hydrogels of Interlaced Self-Assembled Conjugated Polymer Belts with a Polyelectrolyte Network. <i>Chemistry of Materials</i> , 2014, 26, 3522-3529. | 6.7 | 68 |
| 99 | Robust construction of underwater superoleophobic CNTs/nanoparticles multifunctional hybrid membranes via interception effect for oily wastewater purification. <i>Journal of Membrane Science</i> , 2019, 569, 32-40. | 8.2 | 68 |
| 100 | Actuating Supramolecular Shape Memorized Hydrogel Toward Programmable Shape Deformation. <i>Small</i> , 2020, 16, e2005461. | 10.0 | 68 |
| 101 | Self-Diffusion Driven Ultrafast Detection of ppm-Level Nitroaromatic Pollutants in Aqueous Media Using a Hydrophilic Fluorescent Paper Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23884-23893. | 8.0 | 67 |
| 102 | Entanglement-Driven Adhesion, Self-Healing, and High Stretchability of Double-Network PEG-Based Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36458-36468. | 8.0 | 67 |
| 103 | Heteroporous bifluorenylidene-based covalent organic frameworks displaying exceptional dye adsorption behavior and high energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25148-25155. | 10.3 | 66 |
| 104 | Study on the Electrochemical Behavior of Poly(ferrocenylsilane) Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5627-5633. | 2.6 | 64 |
| 105 | Highly Efficient Actuator of Graphene/Polydopamine Uniform Composite Thin Film Driven by Moisture Gradients. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600169. | 3.7 | 64 |
| 106 | Promotion of Color-Changing Luminescent Hydrogels from Thermo to Electrical Responsiveness toward Biomimetic Skin Applications. <i>ACS Nano</i> , 2021, 15, 10415-10427. | 14.6 | 64 |
| 107 | Aggregation-Caused Quenching-Type Naphthalimide Fluorophores Grafted and Ionized in a 3D Polymeric Hydrogel Network for Highly Fluorescent and Locally Tunable Emission. <i>ACS Macro Letters</i> , 2019, 8, 937-942. | 4.8 | 63 |
| 108 | Phase Engineering of Perovskite Materials for High-Efficiency Solar Cells: Rapid Conversion of CH ₃ NH ₃ PbI ₃ to Phase-Pure CH ₃ NH ₃ PbCl ₃ via Hydrochloric Acid Vapor Annealing Post-Treatment. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1897-1908. | 8.0 | 62 |

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|-----|--|------|-----------|
| 109 | The influence of seeding conditions and shielding gas atmosphere on the synthesis of silver nanowires through the polyol process. <i>Nanotechnology</i> , 2006, 17, 466-474. | 2.6 | 61 |
| 110 | A smart hybrid system of Au nanoparticle immobilized PDMAEMA brushes for thermally adjustable catalysis. <i>Chemical Communications</i> , 2014, 50, 1212-1214. | 4.1 | 61 |
| 111 | Tough and Biocompatible Hydrogels Based on in Situ Interpenetrating Networks of Dithiol-Connected Graphene Oxide and Poly(vinyl alcohol). <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3003-3008. | 8.0 | 61 |
| 112 | Asymmetric bilayer CNTs-elastomer/hydrogel composite as soft actuators with sensing performance. <i>Chemical Engineering Journal</i> , 2021, 415, 128988. | 12.7 | 61 |
| 113 | A remarkable sensitivity enhancement in a gold nanoparticle-based lateral flow immunoassay for the detection of <i>Escherichia coli</i> O157:H7. <i>RSC Advances</i> , 2015, 5, 45092-45097. | 3.6 | 60 |
| 114 | Gelatin Nanoparticle-Injectable Platelet-Rich Fibrin Double Network Hydrogels with Local Adaptability and Bioactivity for Enhanced Osteogenesis. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901469. | 7.6 | 60 |
| 115 | Instant interfacial self-assembly for homogeneous nanoparticle monolayer enabled conformal lift-on-thin film technology. <i>Science Advances</i> , 2021, 7, eabk2852. | 10.3 | 59 |
| 116 | Micelle formation and drug release behavior of polypeptide graft copolymer and its mixture with polypeptide block copolymer. <i>International Journal of Pharmaceutics</i> , 2007, 336, 49-57. | 5.2 | 58 |
| 117 | Mechanical Robust and Self-Healable Supramolecular Hydrogel. <i>Macromolecular Rapid Communications</i> , 2016, 37, 265-270. | 3.9 | 58 |
| 118 | Antifreezing and Stretchable Organohydrogels as Soft Actuators. <i>Research</i> , 2019, 2019, 2384347. | 5.7 | 58 |
| 119 | Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7352-7364. | 10.3 | 57 |
| 120 | Acetate Salts as Nonhalogen Additives To Improve Perovskite Film Morphology for High-Efficiency Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15333-15340. | 8.0 | 56 |
| 121 | Programming Multistate Aggregation-Induced Emissive Polymeric Hydrogel into 3D Structures for On-Demand Information Decryption and Transmission. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000239. | 6.1 | 56 |
| 122 | Ultrafast Formation of Free-Standing 2D Carbon Nanotube Thin Films through Capillary Force Driving Compression on an Air/Water Interface. <i>Chemistry of Materials</i> , 2016, 28, 7125-7133. | 6.7 | 54 |
| 123 | Effect of silver nanowires on electrical conductance of system composed of silver particles. <i>Journal of Materials Science</i> , 2007, 42, 3172-3176. | 3.7 | 53 |
| 124 | Self-assembly and photo-responsive behavior of novel ABC2-type block copolymers containing azobenzene moieties. <i>Soft Matter</i> , 2012, 8, 3131. | 2.7 | 53 |
| 125 | <i>Thalia dealbata</i> Inspired Anisotropic Cellular Biomass Derived Carbonaceous Aerogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17152-17159. | 6.7 | 51 |
| 126 | Ionoprinting controlled information storage of fluorescent hydrogel for hierarchical and multi-dimensional decryption. <i>Science China Materials</i> , 2019, 62, 831-839. | 6.3 | 51 |

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|-----|--|------|-----------|
| 127 | Columnar Beam Structure House Inspired MXene-Based Integrated Membrane with Stable Interlayer Spacing for Water Purification. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 51 |
| 128 | Macroscopic two-dimensional monolayer films of gold nanoparticles: fabrication strategies, surface engineering and functional applications. <i>Nanoscale</i> , 2020, 12, 7433-7460. | 5.6 | 47 |
| 129 | Strain-Insensitive Self-Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Graphene-Elastomer Composite. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 47 |
| 130 | Application of an efficient strategy based on liquid-liquid extraction, high-speed counter-current chromatography, and preparative HPLC for the rapid enrichment, separation, and purification of four anthraquinones from <i>Rheum tanguticum</i> . <i>Journal of Separation Science</i> , 2014, 37, 165-170. | 2.5 | 46 |
| 131 | A Novel Anisotropic Hydrogel with Integrated Self-Deformation and Controllable Shape Memory Effect. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800019. | 3.9 | 46 |
| 132 | Hydrophilic/Hydrophobic Interphase-Mediated Bubble-like Stretchable Janus Ultrathin Films toward Self-Adaptive and Pneumatic Multifunctional Electronics. <i>ACS Nano</i> , 2019, 13, 4368-4378. | 14.6 | 46 |
| 133 | Fluorescent Hydrogel-Coated Paper/Textile as Flexible Chemosensor for Visual and Wearable Mercury(II) Detection. <i>Advanced Materials Technologies</i> , 2019, 4, 1800201. | 5.8 | 46 |
| 134 | Recent progress in the shape deformation of polymeric hydrogels from memory to actuation. <i>Chemical Science</i> , 2021, 12, 6472-6487. | 7.4 | 46 |
| 135 | Enhancing cycle stability and storage property of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ by using fast cooling method. <i>Electrochimica Acta</i> , 2017, 227, 225-234. | 5.2 | 45 |
| 136 | Ultrastable porous organic/inorganic polymers based on polyhedral oligomeric silsesquioxane (POSS) hybrids exhibiting high performance for thermal property and energy storage. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111505. | 4.4 | 45 |
| 137 | Study on attachment of highly branched molecules onto multiwalled carbon nanotubes. <i>Materials Letters</i> , 2005, 59, 2085-2089. | 2.6 | 44 |
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