

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|-------------------------|----------------|-----------------|
| 103 papers | 5,297 citations | 39 h-index | 70 g-index |
| 111 ext. papers | 6,690 ext. citations | 8.2 avg, IF | 6.13 L-index |

| # | Paper | IF | Citations |
|-----|--|-------|-----------|
| 103 | Supramolecular shape memory hydrogels: a new bridge between stimuli-responsive polymers and supramolecular chemistry. <i>Chemical Society Reviews</i> , 2017 , 46, 1284-1294 | 58.5 | 285 |
| 102 | Flexible and Adhesive Surface Enhance Raman Scattering Active Tape for Rapid Detection of Pesticide Residues in Fruits and Vegetables. <i>Analytical Chemistry</i> , 2016 , 88, 2149-55 | 7.8 | 277 |
| 101 | Bioinspired Anisotropic Hydrogel Actuators with On/Off Switchable and Color-Tunable Fluorescence Behaviors. <i>Advanced Functional Materials</i> , 2018 , 28, 1704568 | 15.6 | 252 |
| 100 | Janus polymer/carbon nanotube hybrid membranes for oil/water separation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16204-9 | 9.5 | 236 |
| 99 | Recent Progress in Biomimetic Anisotropic Hydrogel Actuators. <i>Advanced Science</i> , 2019 , 6, 1801584 | 13.6 | 214 |
| 98 | Functionalization of Biodegradable PLA Nonwoven Fabric as Superoleophilic and Superhydrophobic Material for Efficient Oil Absorption and Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5968-5973 | 9.5 | 180 |
| 97 | 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 | 13 | 168 |
| 96 | A Multiresponsive Anisotropic Hydrogel with Macroscopic 3D Complex Deformations. <i>Advanced Functional Materials</i> , 2016 , 26, 8670-8676 | 15.6 | 153 |
| 95 | Self-healable macro-/microscopic shape memory hydrogels based on supramolecular interactions. <i>Chemical Communications</i> , 2014 , 50, 12277-80 | 5.8 | 145 |
| 94 | Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16243-16251 | 16.4 | 136 |
| 93 | Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1320-1327 | 7.1 | 125 |
| 92 | 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 | 7.1 | 114 |
| 91 | pH- and sugar-induced shape memory hydrogel based on reversible phenylboronic acid-diol ester bonds. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 533-7 | 4.8 | 109 |
| 90 | Stretchable supramolecular hydrogels with triple shape memory effect. <i>Chemical Science</i> , 2016 , 7, 6715-6720 | 9.4 | 107 |
| 89 | Trends in polymeric shape memory hydrogels and hydrogel actuators. <i>Polymer Chemistry</i> , 2019 , 10, 10364-10375 | 10.55 | 102 |
| 88 | Hierarchical Flowerlike Gold Nanoparticles Labeled Immunochromatography Test Strip for Highly Sensitive Detection of Escherichia coli O157:H7. <i>Langmuir</i> , 2015 , 31, 5537-44 | 4 | 91 |
| 87 | 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 | 13 | 90 |

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| 86 | Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. <i>Materials Horizons</i> , 2021 , 8, 351-369 | 14.4 | 85 |
| 85 | 3D Fluorescent Hydrogel Origami for Multistage Data Security Protection. <i>Advanced Functional Materials</i> , 2019 , 29, 1905514 | 15.6 | 83 |
| 84 | Controlled functionalization of carbon nanotubes as superhydrophobic material for adjustable oil/water separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4124-4128 | 13 | 77 |
| 83 | Mussel-inspired multifunctional supramolecular hydrogels with self-healing, shape memory and adhesive properties. <i>Polymer Chemistry</i> , 2016 , 7, 5343-5346 | 4.9 | 76 |
| 82 | Fe-, pH-, Thermoresponsive Supramolecular Hydrogel with Multishape Memory Effect. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9038-9044 | 9.5 | 73 |
| 81 | Actuating and memorizing bilayer hydrogels for a self-deformed shape memory function. <i>Chemical Communications</i> , 2018 , 54, 1229-1232 | 5.8 | 72 |
| 80 | Light-Controlled Shrinkage of Large-Area Gold Nanoparticle Monolayer Film for Tunable SERS Activity. <i>Chemistry of Materials</i> , 2018 , 30, 1989-1997 | 9.6 | 71 |
| 79 | 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 | 4 | 69 |
| 78 | A multi-responsive hydrogel with a triple shape memory effect based on reversible switches. <i>Chemical Communications</i> , 2016 , 52, 13292-13295 | 5.8 | 69 |
| 77 | Recyclable polybutadiene elastomer based on dynamic imine bond. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 2011-2018 | 2.5 | 67 |
| 76 | 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 | 4 | 55 |
| 75 | Mechanical Robust and Self-Healable Supramolecular Hydrogel. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 265-70 | 4.8 | 53 |
| 74 | A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3640-3646 | 16.4 | 53 |
| 73 | 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 | 8.5 | 52 |
| 72 | Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8608-8624 | 16.4 | 52 |
| 71 | 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 | 7.8 | 51 |
| 70 | 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 | 9.6 | 51 |
| 69 | 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 | 8.3 | 49 |

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| 68 | Highly Efficient Actuator of Graphene/Polydopamine Uniform Composite Thin Film Driven by Moisture Gradients. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600169 | 4.6 | 49 |
| 67 | 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 | 9.6 | 47 |
| 66 | Recyclable Polydimethylsiloxane Network Crosslinked by Dynamic Transesterification Reaction. <i>Scientific Reports</i> , 2017 , 7, 11833 | 4.9 | 43 |
| 65 | pH and Thermo Dual-Responsive Fluorescent Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800648 | 4.8 | 39 |
| 64 | 2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet. <i>Advanced Functional Materials</i> , 2015 , 25, 2428-2435 | 15.6 | 38 |
| 63 | A Novel Anisotropic Hydrogel with Integrated Self-Deformation and Controllable Shape Memory Effect. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800019 | 4.8 | 36 |
| 62 | Construction of superhydrophilic and under-water superoleophobic carbon-based membranes for water purification. <i>RSC Advances</i> , 2016 , 6, 73399-73403 | 3.7 | 35 |
| 61 | UV light-initiated RAFT polymerization induced self-assembly. <i>Polymer Chemistry</i> , 2015 , 6, 6129-6132 | 4.9 | 34 |
| 60 | Antifreezing and Stretchable Organohydrogels as Soft Actuators. <i>Research</i> , 2019 , 2019, 2384347 | 7.8 | 34 |
| 59 | Polymer brush functionalized Janus graphene oxide/chitosan hybrid membranes. <i>RSC Advances</i> , 2014 , 4, 22759 | 3.7 | 33 |
| 58 | Engineering Gold Nanoparticles in Compass Shape with Broadly Tunable Plasmon Resonances and High-Performance SERS. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27949-27955 | 9.5 | 33 |
| 57 | 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 | 16.7 | 31 |
| 56 | Humidity-Responsive Gold Aerogel for Real-Time Monitoring of Human Breath. <i>Langmuir</i> , 2018 , 34, 4908-4913 | 4.9 | 31 |
| 55 | 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 | 6.6 | 31 |
| 54 | Fluorescent Hydrogel-Coated Paper/Textile as Flexible Chemosensor for Visual and Wearable Mercury(II) Detection. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800201 | 6.8 | 31 |
| 53 | Promotion of Color-Changing Luminescent Hydrogels from Thermo to Electrical Responsiveness toward Biomimetic Skin Applications. <i>ACS Nano</i> , 2021 , 15, 10415-10427 | 16.7 | 30 |
| 52 | Ionoprinting controlled information storage of fluorescent hydrogel for hierarchical and multi-dimensional decryption. <i>Science China Materials</i> , 2019 , 62, 831-839 | 7.1 | 28 |
| 51 | Amplifying the signal of localized surface plasmon resonance sensing for the sensitive detection of Escherichia coli O157:H7. <i>Scientific Reports</i> , 2017 , 7, 3288 | 4.9 | 27 |

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| 50 | A Biologically Muscle-Inspired Polyurethane with Super-Tough, Thermal Reparable and Self-Healing Capabilities for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2009869 | 15.6 | 27 |
| 49 | Actuating Supramolecular Shape Memorized Hydrogel Toward Programmable Shape Deformation. <i>Small</i> , 2020 , 16, e2005461 | 11 | 26 |
| 48 | Macroscopic Ultrathin Film as Bio-Inspired Interfacial Reactor for Fabricating 2D Freestanding Janus CNTs/AuNPs Hybrid Nanosheets with Enhanced Electrical Performance. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600170 | 4.6 | 26 |
| 47 | pH and Temperature Dual-Responsive Plasmonic Switches of Gold Nanoparticle Monolayer Film for Multiple Anticounterfeiting. <i>Langmuir</i> , 2018 , 34, 13047-13056 | 4 | 26 |
| 46 | Real-Time in Situ Investigation of Supramolecular Shape Memory Process by Fluorescence Switching. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9499-9506 | 3.8 | 25 |
| 45 | Au nanoparticle-loaded PDMAEMA brush grafted graphene oxide hybrid systems for thermally smart catalysis. <i>RSC Advances</i> , 2014 , 4, 44480-44485 | 3.7 | 25 |
| 44 | Heterogeneous Fluorescent Organohydrogel Enables Dynamic Anti-Counterfeiting. <i>Advanced Functional Materials</i> , 2108365 | 15.6 | 25 |
| 43 | Macroscopic Assembly of Gold Nanorods into Superstructures with Controllable Orientations by Anisotropic Affinity Interaction. <i>Langmuir</i> , 2017 , 33, 13867-13873 | 4 | 24 |
| 42 | Naphthalimide-Based Aggregation-Induced Emissive Polymeric Hydrogels for Fluorescent Pattern Switch and Biomimetic Actuators. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000123 | 4.8 | 23 |
| 41 | Scalable fabrication of free-standing, stretchable CNT/TPE ultrathin composite films for skin adhesive epidermal electronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6666-6671 | 7.1 | 23 |
| 40 | A Multiple Shape Memory Hydrogel Induced by Reversible Physical Interactions at Ambient Condition. <i>Polymers</i> , 2017 , 9, | 4.5 | 23 |
| 39 | Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie</i> , 2019 , 131, 16389-16397 | 3.6 | 22 |
| 38 | Pd-on-Au Supra-nanostructures Decorated Graphene Oxide: An Advanced Electrocatalyst for Fuel Cell Application. <i>Langmuir</i> , 2016 , 32, 8557-64 | 4 | 22 |
| 37 | Giant Vesicles with Anchored Tiny Gold Nanowires: Fabrication and Surface-Enhanced Raman Scattering. <i>Langmuir</i> , 2017 , 33, 13376-13383 | 4 | 20 |
| 36 | Designing a reductive hybrid membrane to selectively capture noble metallic ions during oil/water emulsion separation with further function enhancement. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 102173-102230 | 13.1 | 20 |
| 35 | A lotus-inspired janus hybrid film enabled by interfacial self-assembly and in situ asymmetric modification. <i>Chemical Communications</i> , 2018 , 54, 12804-12807 | 5.8 | 20 |
| 34 | Asymmetric bilayer CNTs-elastomer/hydrogel composite as soft actuators with sensing performance. <i>Chemical Engineering Journal</i> , 2021 , 415, 128988 | 14.7 | 19 |
| 33 | Rationally Programmable Paper-Based Artificial Trees Toward Multipath Solar-Driven Water Extraction From Liquid/Solid Substrates. <i>Solar Rrl</i> , 2019 , 3, 1900004 | 7.1 | 18 |

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| 32 | 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 | 18 |
| 31 | An Off-the-Shelf Shape Memory Hydrogel Based on the Dynamic Borax-Diol Ester Bonds. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800144 | 3.9 | 17 |
| 30 | Mechanochromic double network hydrogels as a compression stress sensor. <i>Polymer Chemistry</i> , 2020 , 11, 6423-6428 | 4.9 | 16 |
| 29 | Integration of a patterned conductive carbon nanotube thin film with an insulating hydrophobic polymer carpet into robust 2D Janus hybrid flexible electronics. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9750-9755 | 7.1 | 16 |
| 28 | Recent progress in the shape deformation of polymeric hydrogels from memory to actuation. <i>Chemical Science</i> , 2021 , 12, 6472-6487 | 9.4 | 16 |
| 27 | Surface-Initiated Initiators for Continuous Activator Regeneration (SI ICAR) ATRP of MMA from 2,2,6,6-tetramethylpiperidine-1-oxy (TEMPO) Oxidized Cellulose Nanofibers for the Preparations of PMMA Nanocomposites. <i>Polymers</i> , 2019 , 11, | 4.5 | 15 |
| 26 | Spatially-controlled growth of platinum on gold nanorods with tailoring plasmonic and catalytic properties. <i>RSC Advances</i> , 2016 , 6, 10713-10718 | 3.7 | 14 |
| 25 | Photocontrollable volume phase transition of an azobenzene functionalized microgel and its supramolecular complex. <i>RSC Advances</i> , 2015 , 5, 84263-84268 | 3.7 | 13 |
| 24 | Ionic Strength and Thermal Dual-Responsive Bilayer Hollow Spherical Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900543 | 4.8 | 12 |
| 23 | Tris base assisted synthesis of monodispersed citrate-capped gold nanospheres with tunable size. <i>RSC Advances</i> , 2016 , 6, 60916-60921 | 3.7 | 12 |
| 22 | A highly conductive hydrogel driven by phytic acid towards a wearable sensor with freezing and dehydration resistance. <i>Journal of Materials Chemistry A</i> , | 13 | 11 |
| 21 | Shape Memory Hydrogels with Simultaneously Switchable Fluorescence Behavior. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800130 | 4.8 | 10 |
| 20 | Reaction-Driven Self-Assembled Micellar Nanoprobes for Ratiometric Fluorescence Detection of CS ₂ with High Selectivity and Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20100-9 | 9.5 | 10 |
| 19 | Multi-Field Synergy Manipulating Soft Polymeric Hydrogel Transformers. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000208 | 6 | 10 |
| 18 | Controlled evaporative self-assembly of Fe ₃ O ₄ nanoparticles assisted by an external magnetic field. <i>RSC Advances</i> , 2015 , 5, 31519-31524 | 3.7 | 9 |
| 17 | Preparations of Tough and Conductive PAMPS/PAA Double Network Hydrogels Containing Cellulose Nanofibers and Polypyrroles. <i>Polymers</i> , 2020 , 12, | 4.5 | 9 |
| 16 | Heterogemini surfactant assisted synthesis of monodisperse icosahedral gold nanocrystals and their applications in electrochemical biosensing. <i>RSC Advances</i> , 2016 , 6, 31301-31307 | 3.7 | 8 |
| 15 | A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie</i> , 2021 , 133, 3684-3690 | 3.6 | 8 |

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| 14 | Fluorescent microsphere probe for rapid qualitative and quantitative detection of trypsin activity. <i>Nanoscale Advances</i> , 2019 , 1, 162-167 | 5.1 | 7 |
| 13 | Fabricating a morphology tunable patterned bio-inspired polydopamine film directly via microcontact printing. <i>RSC Advances</i> , 2015 , 5, 60990-60992 | 3.7 | 7 |
| 12 | Macroscopic-Oriented Gold Nanorods in Polyvinyl Alcohol Films for Polarization-Dependent Multicolor Displays. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800026 | 4.6 | 7 |
| 11 | Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie</i> , 2021 , 133, 8690-8706 | 3.6 | 7 |
| 10 | Air/Water Interfacial Formation of Clean Tiny AuNPs Anchored Densely on CNT Film for Electrocatalytic Alcohol Oxidation. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601105 | 4.6 | 6 |
| 9 | 3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600867 | 4.6 | 5 |
| 8 | Supramolecular Fabrication of Complex 3D Hollow Polymeric Hydrogels with Shape and Function Diversity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48564-48573 | 9.5 | 5 |
| 7 | Direct supramolecular interacted graphene oxide assembly on graphene as an active and defect-free functional platform. <i>Chemical Communications</i> , 2017 , 53, 1949-1952 | 5.8 | 4 |
| 6 | Silver Nanoplates and Gold Nanospheres as Probes for Revealing an Interference Phenomenon in a Simultaneous Quantitative Immunochromatographic Assay. <i>Food Analytical Methods</i> , 2019 , 12, 1666-1673 | 3.4 | 4 |
| 5 | Actuators: Bioinspired Anisotropic Hydrogel Actuators with On/Off Switchable and Color-Tunable Fluorescence Behaviors (Adv. Funct. Mater. 7/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870043 | 15.6 | 4 |
| 4 | Stimuli-responsive hydrogel sponge for ultrafast responsive actuator 2022 , 1, 100002 | | 2 |
| 3 | Cold-induced shape memory hydrogels for strong and programmable artificial muscles. <i>Science China Materials</i> , 2018 , 11, 1-10 | 7.1 | 2 |
| 2 | Modeling on magnetoelectric effect of functional piezoelectric dielectric. <i>Emerging Materials Research</i> , 2018 , 7, 4-9 | 1.4 | 0 |
| 1 | Thin Films: 2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet (Adv. Funct. Mater. 16/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 2479-2479 | 15.6 | |