

# Jia-wei Zhang

## List of Publications by Year in Descending Order

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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.

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	Stimuli-responsive hydrogel sponge for ultrafast responsive actuator <b>2022</b> , 1, 100002		2
102	Promotion of Color-Changing Luminescent Hydrogels from Thermo to Electrical Responsiveness toward Biomimetic Skin Applications. <i>ACS Nano</i> , <b>2021</b> , 15, 10415-10427	16.7	30
101	Multi-Field Synergy Manipulating Soft Polymeric Hydrogel Transformers. <i>Advanced Intelligent Systems</i> , <b>2021</b> , 3, 2000208	6	10
100	A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3684-3690	3.6	8
99	A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3640-3646	16.4	53
98	Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. <i>Materials Horizons</i> , <b>2021</b> , 8, 351-369	14.4	85
97	Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8690-8706	3.6	7
96	Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 8608-8624	16.4	52
95	Recent progress in the shape deformation of polymeric hydrogels from memory to actuation. <i>Chemical Science</i> , <b>2021</b> , 12, 6472-6487	9.4	16
94	A Biologically Muscle-Inspired Polyurethane with Super-Tough, Thermal Reparable and Self-Healing Capabilities for Stretchable Electronics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009869	15.6	27
93	Programming Multistate Aggregation-Induced Emissive Polymeric Hydrogel into 3D Structures for On-Demand Information Decryption and Transmission. <i>Advanced Intelligent Systems</i> , <b>2021</b> , 3, 2000239	6	18
92	Asymmetric bilayer CNTs-elastomer/hydrogel composite as soft actuators with sensing performance. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 128988	14.7	19
91	Preparations of Tough and Conductive PAMPS/PAA Double Network Hydrogels Containing Cellulose Nanofibers and Polypyrroles. <i>Polymers</i> , <b>2020</b> , 12,	4.5	9
90	Actuating Supramolecular Shape Memorized Hydrogel Toward Programmable Shape Deformation. <i>Small</i> , <b>2020</b> , 16, e2005461	11	26
89	Naphthalimide-Based Aggregation-Induced Emissive Polymeric Hydrogels for Fluorescent Pattern Switch and Biomimetic Actuators. <i>Macromolecular Rapid Communications</i> , <b>2020</b> , 41, e2000123	4.8	23
88	Ionic Strength and Thermal Dual-Responsive Bilayer Hollow Spherical Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , <b>2020</b> , 41, e1900543	4.8	12
87	Mechanochromic double network hydrogels as a compression stress sensor. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 6423-6428	4.9	16

86	Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16243-16251	16.4	136
85	Fluorescent microsphere probe for rapid qualitative and quantitative detection of trypsin activity. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 162-167	5.1	7
84	Trends in polymeric shape memory hydrogels and hydrogel actuators. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 10364-10369	10.55	102
83	Ionoprinting controlled information storage of fluorescent hydrogel for hierarchical and multi-dimensional decryption. <i>Science China Materials</i> , <b>2019</b> , 62, 831-839	7.1	28
82	Silver Nanoplates and Gold Nanospheres as Probes for Revealing an Interference Phenomenon in a Simultaneous Quantitative Immunochromatographic Assay. <i>Food Analytical Methods</i> , <b>2019</b> , 12, 1666-1673	3.4	4
81	Rationally Programmable Paper-Based Artificial Trees Toward Multipath Solar-Driven Water Extraction from Liquid/Solid Substrates. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900004	7.1	18
80	Hydrophilic/Hydrophobic Interphase-Mediated Bubble-like Stretchable Janus Ultrathin Films toward Self-Adaptive and Pneumatic Multifunctional Electronics. <i>ACS Nano</i> , <b>2019</b> , 13, 4368-4378	16.7	31
79	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> , <b>2019</b> , 8, 937-942	6.6	31
78	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> , <b>2019</b> , 11,	4.5	15
77	3D Fluorescent Hydrogel Origami for Multistage Data Security Protection. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905514	15.6	83
76	Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16389-16397	3.6	22
75	Antifreezing and Stretchable Organohydrogels as Soft Actuators. <i>Research</i> , <b>2019</b> , 2019, 2384347	7.8	34
74	Supramolecular Fabrication of Complex 3D Hollow Polymeric Hydrogels with Shape and Function Diversity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 48564-48573	9.5	5
73	Fluorescent Hydrogel-Coated Paper/Textile as Flexible Chemosensor for Visual and Wearable Mercury(II) Detection. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800201	6.8	31
72	Recent Progress in Biomimetic Anisotropic Hydrogel Actuators. <i>Advanced Science</i> , <b>2019</b> , 6, 1801584	13.6	214
71	pH and Thermo Dual-Responsive Fluorescent Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800648	4.8	39
70	Robust construction of underwater superoleophobic CNTs/nanoparticles multifunctional hybrid membranes via interception effect for oily wastewater purification. <i>Journal of Membrane Science</i> , <b>2019</b> , 569, 32-40	9.6	51
69	Light-Controlled Shrinkage of Large-Area Gold Nanoparticle Monolayer Film for Tunable SERS Activity. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1989-1997	9.6	71

68	Real-Time in Situ Investigation of Supramolecular Shape Memory Process by Fluorescence Switching. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9499-9506	3.8	25
67	Network cracks-based wearable strain sensors for subtle and large strain detection of human motions. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5140-5147	7.1	114
66	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> , <b>2018</b> , 6, 10217-10225	13.0	250
65	Macroscopic-Oriented Gold Nanorods in Polyvinyl Alcohol Films for Polarization-Dependent Multicolor Displays. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800026	4.6	7
64	Actuators: Bioinspired Anisotropic Hydrogel Actuators with On/Off Switchable and Color-Tunable Fluorescence Behaviors (Adv. Funct. Mater. 7/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870043	15.6	4
63	Biodegradable PLA Nonwoven Fabric with Controllable Wettability for Efficient Water Purification and Photocatalysis Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2445-2452	8.3	49
62	Actuating and memorizing bilayer hydrogels for a self-deformed shape memory function. <i>Chemical Communications</i> , <b>2018</b> , 54, 1229-1232	5.8	72
61	Nanozyme-based lateral flow assay for the sensitive detection of Escherichia coli O157:H7 in milk. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 5770-5779	4	55
60	Scalable fabrication of free-standing, stretchable CNT/TPE ultrathin composite films for skin adhesive epidermal electronics. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6666-6671	7.1	23
59	Shape Memory Hydrogels with Simultaneously Switchable Fluorescence Behavior. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800130	4.8	10
58	Giant Gold Nanowire Vesicle-Based Colorimetric and SERS Dual-Mode Immunosensor for Ultrasensitive Detection of Vibrio parahaemolyticus. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6124-6130	7.8	51
57	Modeling on magnetoelectric effect of functional piezoelectric dielectric. <i>Emerging Materials Research</i> , <b>2018</b> , 7, 4-9	1.4	0
56	Humidity-Responsive Gold Aerogel for Real-Time Monitoring of Human Breath. <i>Langmuir</i> , <b>2018</b> , 34, 49084-49133	13.1	31
55	A Novel Anisotropic Hydrogel with Integrated Self-Deformation and Controllable Shape Memory Effect. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800019	4.8	36
54	An Off-the-Shelf Shape Memory Hydrogel Based on the Dynamic Borax-Diol Ester Bonds. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1800144	3.9	17
53	Bioinspired Anisotropic Hydrogel Actuators with On/Off Switchable and Color-Tunable Fluorescence Behaviors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704568	15.6	252
52	Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1320-1327	7.1	125
51	A lotus-inspired janus hybrid film enabled by interfacial self-assembly and in situ asymmetric modification. <i>Chemical Communications</i> , <b>2018</b> , 54, 12804-12807	5.8	20

50	pH and Temperature Dual-Responsive Plasmonic Switches of Gold Nanoparticle Monolayer Film for Multiple Anticounterfeiting. <i>Langmuir</i> , <b>2018</b> , 34, 13047-13056	4	26
49	Functionalization of Biodegradable PLA Nonwoven Fabric as Superoleophilic and Superhydrophobic Material for Efficient Oil Absorption and Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 5968-5973	9.5	180
48	Supramolecular shape memory hydrogels: a new bridge between stimuli-responsive polymers and supramolecular chemistry. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 1284-1294	58.5	285
47	Direct supramolecular interacted graphene oxide assembly on graphene as an active and defect-free functional platform. <i>Chemical Communications</i> , <b>2017</b> , 53, 1949-1952	5.8	4
46	Air/Water Interfacial Formation of Clean Tiny AuNPs Anchored Densely on CNT Film for Electrocatalytic Alcohol Oxidation. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1601105	4.6	6
45	Fe-, pH-, Thermoresponsive Supramolecular Hydrogel with Multishape Memory Effect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9038-9044	9.5	73
44	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> , <b>2017</b> , 33, 5378-5384	4	69
43	3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1600867	4.6	5
42	Recyclable polybutadiene elastomer based on dynamic imine bond. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 2011-2018	2.5	67
41	Giant Vesicles with Anchored Tiny Gold Nanowires: Fabrication and Surface-Enhanced Raman Scattering. <i>Langmuir</i> , <b>2017</b> , 33, 13376-13383	4	20
40	Recyclable Polydimethylsiloxane Network Crosslinked by Dynamic Transesterification Reaction. <i>Scientific Reports</i> , <b>2017</b> , 7, 11833	4.9	43
39	Macroscopic Assembly of Gold Nanorods into Superstructures with Controllable Orientations by Anisotropic Affinity Interaction. <i>Langmuir</i> , <b>2017</b> , 33, 13867-13873	4	24
38	Amplifying the signal of localized surface plasmon resonance sensing for the sensitive detection of Escherichia coli O157:H7. <i>Scientific Reports</i> , <b>2017</b> , 7, 3288	4.9	27
37	Self-Diffusion Driven Ultrafast Detection of ppm-Level Nitroaromatic Pollutants in Aqueous Media Using a Hydrophilic Fluorescent Paper Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23884-23893	8.5	52
36	A Multiple Shape Memory Hydrogel Induced by Reversible Physical Interactions at Ambient Condition. <i>Polymers</i> , <b>2017</b> , 9,	4.5	23
35	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> , <b>2016</b> , 28, 7125-7133	9.6	47
34	Reaction-Driven Self-Assembled Micellar Nanoprobes for Ratiometric Fluorescence Detection of CS <sub>2</sub> with High Selectivity and Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20100-9	9.5	10
33	A multi-responsive hydrogel with a triple shape memory effect based on reversible switches. <i>Chemical Communications</i> , <b>2016</b> , 52, 13292-13295	5.8	69

32	A Multiresponsive Anisotropic Hydrogel with Macroscopic 3D Complex Deformations. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8670-8676	15.6	153
31	Highly Efficient Actuator of Graphene/Polydopamine Uniform Composite Thin Film Driven by Moisture Gradients. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600169	4.6	49
30	Tris base assisted synthesis of monodispersed citrate-capped gold nanospheres with tunable size. <i>RSC Advances</i> , <b>2016</b> , 6, 60916-60921	3.7	12
29	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> , <b>2016</b> , 3, 1600170	4.6	26
28	Spatially-controlled growth of platinum on gold nanorods with tailoring plasmonic and catalytic properties. <i>RSC Advances</i> , <b>2016</b> , 6, 10713-10718	3.7	14
27	Flexible and Adhesive Surface Enhance Raman Scattering Active Tape for Rapid Detection of Pesticide Residues in Fruits and Vegetables. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2149-55	7.8	277
26	Heterogemini surfactant assisted synthesis of monodisperse icosahedral gold nanocrystals and their applications in electrochemical biosensing. <i>RSC Advances</i> , <b>2016</b> , 6, 31301-31307	3.7	8
25	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> , <b>2016</b> , 4, 10810-10815	13	90
24	Mechanical Robust and Self-Healable Supramolecular Hydrogel. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 265-70	4.8	53
23	Stretchable supramolecular hydrogels with triple shape memory effect. <i>Chemical Science</i> , <b>2016</b> , 7, 6715-6720	9.4	107
22	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> , <b>2016</b> , 4, 9750-9755	7.1	16
21	Engineering Gold Nanoparticles in Compass Shape with Broadly Tunable Plasmon Resonances and High-Performance SERS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27949-27955	9.5	33
20	Mussel-inspired multifunctional supramolecular hydrogels with self-healing, shape memory and adhesive properties. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 5343-5346	4.9	76
19	Pd-on-Au Supra-nanostructures Decorated Graphene Oxide: An Advanced Electrocatalyst for Fuel Cell Application. <i>Langmuir</i> , <b>2016</b> , 32, 8557-64	4	22
18	Construction of superhydrophilic and under-water superoleophobic carbon-based membranes for water purification. <i>RSC Advances</i> , <b>2016</b> , 6, 73399-73403	3.7	35
17	2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2428-2435	15.6	38
16	UV light-initiated RAFT polymerization induced self-assembly. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 6129-6132	4.9	34
15	Hierarchical Flowerlike Gold Nanoparticles Labeled Immunochromatography Test Strip for Highly Sensitive Detection of Escherichia coli O157:H7. <i>Langmuir</i> , <b>2015</b> , 31, 5537-44	4	91

14	Controlled evaporative self-assembly of Fe <sub>3</sub> O <sub>4</sub> nanoparticles assisted by an external magnetic field. <i>RSC Advances</i> , <b>2015</b> , 5, 31519-31524	3.7	9
13	Photocontrollable volume phase transition of an azobenzene functionalized microgel and its supramolecular complex. <i>RSC Advances</i> , <b>2015</b> , 5, 84263-84268	3.7	13
12	Fabricating a morphology tunable patterned bio-inspired polydopamine film directly via microcontact printing. <i>RSC Advances</i> , <b>2015</b> , 5, 60990-60992	3.7	7
11	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> , <b>2015</b> , 25, 2479-2479	15.6	
10	pH- and sugar-induced shape memory hydrogel based on reversible phenylboronic acid-diol ester bonds. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 533-7	4.8	109
9	Controlled functionalization of carbon nanotubes as superhydrophobic material for adjustable oil/water separation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4124-4128	13	77
8	Self-healable macro-/microscopic shape memory hydrogels based on supramolecular interactions. <i>Chemical Communications</i> , <b>2014</b> , 50, 12277-80	5.8	145
7	Janus polymer/carbon nanotube hybrid membranes for oil/water separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16204-9	9.5	236
6	Au nanoparticle-loaded PDMAEMA brush grafted graphene oxide hybrid systems for thermally smart catalysis. <i>RSC Advances</i> , <b>2014</b> , 4, 44480-44485	3.7	25
5	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> , <b>2014</b> , 2, 15268	13	168
4	Polymer brush functionalized Janus graphene oxide/chitosan hybrid membranes. <i>RSC Advances</i> , <b>2014</b> , 4, 22759	3.7	33
3	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
2	Heterogeneous Fluorescent Organohydrogel Enables Dynamic Anti-Counterfeiting. <i>Advanced Functional Materials</i> , 2108365	15.6	25
1	Cold-induced shape memory hydrogels for strong and programmable artificial muscles. <i>Science China Materials</i> , 1	7.1	2