Wei Lu

List of Publications by Year in Descending Order

71 papers	3,034 citations	28 h-index	54 g-index
77 ext. papers	4,104 ext. citations	9.4 avg, IF	5.82 L-index

#	Paper	IF	Citations
71	Cephalopod-Inspired Design of Photomechanically Modulated Display Systems for On-Demand Fluorescent Patterning. *Advanced Materials*, **2021**, e2107452	24	11
70	A panther chameleon skin-inspired core@shell supramolecular hydrogel with spatially organized multi-luminogens enables programmable color change. *Cell Reports Physical Science*, **2021**, 2, 100417	6.1	10
69	Promotion of Color-Changing Luminescent Hydrogels from Thermo to Electrical Responsiveness toward Biomimetic Skin Applications. *ACS Nano*, **2021**, 15, 10415-10427	16.7	30
68	Biomimetic underwater self-perceptive actuating soft system based on highly compliant, morphable and conductive sandwiched thin films. *Nano Energy*, **2021**, 81, 105617	17.1	10
67	A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. *Angewandte Chemie*, **2021**, 133, 3684-3690	3.6	8
66	A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. *Angewandte Chemie - International Edition*, **2021**, 60, 3640-3646	16.4	53
65	Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. *Materials Horizons*, **2021**, 8, 351-369	14.4	85
64	Multicolor Fluorescent Polymeric Hydrogels. *Angewandte Chemie*, **2021**, 133, 8690-8706	3.6	7
63	Multicolor Fluorescent Polymeric Hydrogels. *Angewandte Chemie - International Edition*, **2021**, 60, 8608-8624	16.4	52
62	Recent progress in the shape deformation of polymeric hydrogels from memory to actuation. *Chemical Science*, **2021**, 12, 6472-6487	9.4	16
61	Multicolor Fluorescent Polymeric Actuator with Self-Sustained Oscillation Behavior. *Macromolecular Materials and Engineering*, **2021**, 306, 2000781	3.9	1
60	Programming Multistate Aggregation-Induced Emissive Polymeric Hydrogel into 3D Structures for On-Demand Information Decryption and Transmission. *Advanced Intelligent Systems*, **2021**, 3, 2000239	6	18
59	Progress in aggregation-induced emission-active fluorescent polymeric hydrogels. *Aggregate*, **2021**, 2, e37	22.9	17
58	Self-healing Polymeric Hydrogels: Toward Multifunctional Soft Smart Materials. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 39, 1262-1280	3.5	0
57	Asymmetric bilayer CNTs-elastomer/hydrogel composite as soft actuators with sensing performance. *Chemical Engineering Journal*, **2021**, 415, 128988	14.7	19
56	Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. *Angewandte Chemie - International Edition*, **2021**, 60, 21890-21898	16.4	21
55	Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. *Angewandte Chemie*, **2021**, 133, 22061-22069	3.6	0

54	Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. *Advanced Materials*, **2020**, 32, e2004290	24	83
53	Naphthalimide-Based Aggregation-Induced Emissive Polymeric Hydrogels for Fluorescent Pattern Switch and Biomimetic Actuators. *Macromolecular Rapid Communications*, **2020**, 41, e2000123	4.8	23
52	Deep-NFVOrch: leveraging deep reinforcement learning to achieve adaptive vNF service chaining in DCI-EONs. *Journal of Optical Communications and Networking*, **2020**, 12, A18	4.1	19
51	Asymmetric elastoplasticity of stacked graphene assembly actualizes programmable untethered soft robotics. *Nature Communications*, **2020**, 11, 4359	17.4	54
50	Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. *Angewandte Chemie - International Edition*, **2019**, 58, 16243-16251	16.4	136
49	Ionoprinting controlled information storage of fluorescent hydrogel for hierarchical and multi-dimensional decryption. *Science China Materials*, **2019**, 62, 831-839	7.1	28
48	Super Hydrophilic Semi-IPN Fluorescent Poly(-(2-hydroxyethyl)acrylamide) Hydrogel for Ultrafast, Selective, and Long-Term Effective Mercury(II) Detection in a Bacteria-Laden System.. *ACS Applied Bio Materials*, **2019**, 2, 906-915	4.1	12
47	Aggregation-Caused Quenching-Type Naphthalimide Fluorophores Grafted and Ionized in a 3D Polymeric Hydrogel Network for Highly Fluorescent and Locally Tunable Emission. *ACS Macro Letters*, **2019**, 8, 937-942	6.6	31
46	Distinct Regioselectivity of Fungal P450 Enzymes for Steroidal Hydroxylation. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	13
45	3D Fluorescent Hydrogel Origami for Multistage Data Security Protection. *Advanced Functional Materials*, **2019**, 29, 1905514	15.6	83
44	Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. *Angewandte Chemie*, **2019**, 131, 16389-16397	3.6	22
43	Antifreezing and Stretchable Organohydrogels as Soft Actuators. *Research*, **2019**, 2019, 2384347	7.8	34
42	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. *Nano Energy*, **2019**, 59, 422-433	17.1	113
41	Supramolecular Fabrication of Complex 3D Hollow Polymeric Hydrogels with Shape and Function Diversity. *ACS Applied Materials & Interfaces*, **2019**, 11, 48564-48573	9.5	5
40	Fluorescent Hydrogel-Coated Paper/Textile as Flexible Chemosensor for Visual and Wearable Mercury(II) Detection. *Advanced Materials Technologies*, **2019**, 4, 1800201	6.8	31
39	Recent Progress in Biomimetic Anisotropic Hydrogel Actuators. *Advanced Science*, **2019**, 6, 1801584	13.6	214
38	pH and Thermo Dual-Responsive Fluorescent Hydrogel Actuator. *Macromolecular Rapid Communications*, **2019**, 40, e1800648	4.8	39
37	Real-Time in Situ Investigation of Supramolecular Shape Memory Process by Fluorescence Switching. *Journal of Physical Chemistry C*, **2018**, 122, 9499-9506	3.8	25

36	Actuators: Bioinspired Anisotropic Hydrogel Actuators with On□Off Switchable and Color-Tunable Fluorescence Behaviors (Adv. Funct. Mater. 7/2018). *Advanced Functional Materials*, **2018**, 28, 1870043	15.6	4
35	Actuating and memorizing bilayer hydrogels for a self-deformed shape memory function. *Chemical Communications*, **2018**, 54, 1229-1232	5.8	72
34	Shape Memory Hydrogels with Simultaneously Switchable Fluorescence Behavior. *Macromolecular Rapid Communications*, **2018**, 39, e1800130	4.8	10
33	A Novel Anisotropic Hydrogel with Integrated Self-Deformation and Controllable Shape Memory Effect. *Macromolecular Rapid Communications*, **2018**, 39, e1800019	4.8	36
32	The Imaging Method and Verification Experiment of Change□-5 Lunar Regolith Penetrating Array Radar. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1006-1010	4.1	5
31	An □ff-the-Shelf□ Shape Memory Hydrogel Based on the Dynamic Borax-Diol Ester Bonds. *Macromolecular Materials and Engineering*, **2018**, 303, 1800144	3.9	17
30	High Performance Humidity Fluctuation Sensor for Wearable Devices via a Bioinspired Atomic-Precise Tunable Graphene-Polymer Heterogeneous Sensing Junction. *Chemistry of Materials*, **2018**, 30, 4343-4354	9.6	80
29	Bioinspired Anisotropic Hydrogel Actuators with On□Off Switchable and Color-Tunable Fluorescence Behaviors. *Advanced Functional Materials*, **2018**, 28, 1704568	15.6	252
28	Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. *Journal of Materials Chemistry C*, **2018**, 6, 1320-1327	7.1	125
27	Ultrafast and Efficient Detection of Formaldehyde in Aqueous Solutions Using Chitosan-based Fluorescent Polymers. *ACS Sensors*, **2018**, 3, 2394-2401	9.2	40
26	Supramolecular shape memory hydrogels: a new bridge between stimuli-responsive polymers and supramolecular chemistry. *Chemical Society Reviews*, **2017**, 46, 1284-1294	58.5	285
25	Fe-, pH-, Thermoresponsive Supramolecular Hydrogel with Multishape Memory Effect. *ACS Applied Materials & Interfaces*, **2017**, 9, 9038-9044	9.5	73
24	A new D-threonine aldolase as a promising biocatalyst for highly stereoselective preparation of chiral aromatic □-hydroxy-□-amino acids. *Catalysis Science and Technology*, **2017**, 7, 5964-5973	5.5	13
23	Self-Diffusion Driven Ultrafast Detection of ppm-Level Nitroaromatic Pollutants in Aqueous Media Using a Hydrophilic Fluorescent Paper Sensor. *ACS Applied Materials & Interfaces*, **2017**, 9, 23884-23893	9.5	52
22	A Multiple Shape Memory Hydrogel Induced by Reversible Physical Interactions at Ambient Condition. *Polymers*, **2017**, 9,	4.5	23
21	Reaction-Driven Self-Assembled Micellar Nanoprobes for Ratiometric Fluorescence Detection of CS2 with High Selectivity and Sensitivity. *ACS Applied Materials & Interfaces*, **2016**, 8, 20100-9	9.5	10
20	A multi-responsive hydrogel with a triple shape memory effect based on reversible switches. *Chemical Communications*, **2016**, 52, 13292-13295	5.8	69
19	A Multiresponsive Anisotropic Hydrogel with Macroscopic 3D Complex Deformations. *Advanced Functional Materials*, **2016**, 26, 8670-8676	15.6	153

18	Macroscopic Ultrathin Film as Bio-Inspired Interfacial Reactor for Fabricating 2D Freestanding Janus CNTs/AuNPs Hybrid Nanosheets with Enhanced Electrical Performance. *Advanced Materials Interfaces*, **2016**, 3, 1600170	4.6	26
17	Stretchable supramolecular hydrogels with triple shape memory effect. *Chemical Science*, **2016**, 7, 6715-6720	9.4	107
16	Mussel-inspired multifunctional supramolecular hydrogels with self-healing, shape memory and adhesive properties. *Polymer Chemistry*, **2016**, 7, 5343-5346	4.9	76
15	UV light-initiated RAFT polymerization induced self-assembly. *Polymer Chemistry*, **2015**, 6, 6129-6132	4.9	34
14	Fabricating a morphology tunable patterned bio-inspired polydopamine film directly via microcontact printing. *RSC Advances*, **2015**, 5, 60990-60992	3.7	7
13	Design of an enhanced visual odometry by building and matching compressive panoramic landmarks online. *Frontiers of Information Technology and Electronic Engineering*, **2015**, 16, 152-165	2.2	4
12	Chiroptical inversion induced by rotation of a carbon-carbon single bond: an experimental and theoretical study. *Journal of Physical Chemistry A*, **2014**, 118, 283-92	2.8	12
11	Synthesis and selective recognition toward zinc ion of chiral poly(imine-triazole). *Journal of Polymer Science Part A*, **2014**, 52, 2248-2257	2.5	6
10	Synthesis of 7-Triazole-substituted Camptothecin via Click Chemistry and Evaluation of in vitro Antitumor Activity. *Chinese Journal of Chemistry*, **2014**, 32, 157-162	4.9	6
9	A polymeric film probe with a turn-on fluorescence response to hydrogen sulfate ions in aqueous media. *Journal of Materials Chemistry B*, **2013**, 1, 5014-5020	7.3	28
8	Polymer-based fluoride-selective chemosensor: Synthesis, sensing property, and its use for the design of molecular-scale logic devices. *Journal of Polymer Science Part A*, **2012**, 50, 590-598	2.5	24
7	A chiral polymer-based turn-on fluorescent sensor for specific recognition of hydrogen sulfate. *Journal of Polymer Science Part A*, **2012**, 50, 4191-4197	2.5	13
6	Resistive Switching Memories: Observation of Conductance Quantization in Oxide-Based Resistive Switching Memory (Adv. Mater. 29/2012). *Advanced Materials*, **2012**, 24, 3898-3898	24	2
5	Optically active polyacrylamides bearing an oxazoline pendant: Influence of stereoregularity on both chiroptical properties and chiral recognition. *Journal of Polymer Science Part A*, **2010**, 48, 5411-5418	2.5	12
4	Study on strengthening combustion and NOx formation properties of rough-surfaced bluff-bodies. *International Journal of Energy Research*, **2001**, 25, 825-843	4.5	3
3	Dual-Channel Flexible Strain Sensors Based on Mechanofluorescent and Conductive Hydrogel Laminates. *Advanced Optical Materials*,2102306	8.1	8
2	Supramolecular Hydrogel with Orthogonally Responsive R/G/B Fluorophores Enables Multi-Color Switchable Biomimetic Soft Skins. *Advanced Functional Materials*,2108830	15.6	5
1	Optimizing supramolecular fluorescent materials with responsive multi-color tunability toward soft biomimetic skins. *Materials Chemistry Frontiers*,	7.8	2