Jun Fu

List of Publications by Citations

117	4,590	38	64
papers	citations	h-index	g-index
122	5,609	5.2	6.21
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
117	Self-healable, tough, and ultrastretchable nanocomposite hydrogels based on reversible polyacrylamide/montmorillonite adsorption. *ACS Applied Materials & Interfaces*, **2015**, 7, 5029-37	9.5	247
116	Degradable natural polymer hydrogels for articular cartilage tissue engineering. *Journal of Chemical Technology and Biotechnology*, **2013**, 88, 327-339	3.5	232
115	Ultrastretchable Strain Sensors and Arrays with High Sensitivity and Linearity Based on Super Tough Conductive Hydrogels. *Chemistry of Materials*, **2018**, 30, 8062-8069	9.6	207
114	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. *ACS Applied Materials & Interfaces*, **2019**, 11, 3506-3515	9.5	183
113	Stretchable and tough conductive hydrogels for flexible pressure and strain sensors. *Journal of Materials Chemistry B*, **2020**, 8, 3437-3459	7.3	163
112	Super-tough double-network hydrogels reinforced by covalently compositing with silica-nanoparticles. *Soft Matter*, **2012**, 8, 6048	3.6	159
111	Super Tough, Ultrastretchable, and Thermoresponsive Hydrogels with Functionalized Triblock Copolymer Micelles as Macro-Cross-Linkers.. *ACS Macro Letters*, **2014**, 3, 496-500	6.6	154
110	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. *Materials Horizons*, **2020**, 7, 1872-1882	14.4	138
109	From 3D to 4D printing: approaches and typical applications. *Journal of Mechanical Science and Technology*, **2015**, 29, 4281-4288	1.6	121
108	Flexible and wearable strain sensors based on tough and self-adhesive ion conducting hydrogels. *Journal of Materials Chemistry B*, **2019**, 7, 24-29	7.3	107
107	Formation and photoluminescence of silver nanoparticles stabilized by a two-armed polymer with a crown ether core. *Langmuir*, **2004**, 20, 9775-9	4	88
106	Ordered honeycomb-structured gold nanoparticle films with changeable pore morphology: from circle to ellipse. *Langmuir*, **2005**, 21, 2017-21	4	86
105	Super-tough and thermo-healable hydrogel - promising for shape-memory absorbent fiber. *Journal of Materials Chemistry B*, **2014**, 2, 7631-7638	7.3	85
104	Tough nanocomposite double network hydrogels reinforced with clay nanorods through covalent bonding and reversible chain adsorption. *Journal of Materials Chemistry B*, **2014**, 2, 1539-1548	7.3	84
103	Electric Field Actuation of Tough Electroactive Hydrogels Cross-Linked by Functional Triblock Copolymer Micelles. *ACS Applied Materials & Interfaces*, **2016**, 8, 26326-26331	9.5	82
102	Self-Assembly of Crystalline−Coil Diblock Copolymer in Solvents with Varying Selectivity: From Spinodal-like Aggregates to Spheres, Cylinders, and Lamellae. *Macromolecules*, **2004**, 37, 976-986	5.5	79
101	Multi-responsive and tough hydrogels based on triblock copolymer micelles as multi-functional macro-crosslinkers. *Chemical Communications*, **2015**, 51, 8512-5	5.8	78

100	Macroporous fluoropolymeric films templated by silica colloidal assembly: A possible route to super-hydrophobic surfaces. *Applied Surface Science*, **2006**, 252, 2229-2234	6.7	74
99	Tough and responsive oppositely charged nanocomposite hydrogels for use as bilayer actuators assembled through interfacial electrostatic attraction. *Journal of Materials Chemistry B*, **2016**, 4, 3239-3246	7.3	72
98	Magnetic nanohydroxyapatite/PVA composite hydrogels for promoted osteoblast adhesion and proliferation. *Colloids and Surfaces B: Biointerfaces*, **2013**, 103, 318-25	6	68
97	Tough biodegradable chitosan–gelatin hydrogels via in situ precipitation for potential cartilage tissue engineering. *RSC Advances*, **2015**, 5, 55640-55647	3.7	64
96	Formation of Regular Hole Pattern in Polymer Films. *Macromolecular Chemistry and Physics*, **2003**, 204, 125-130	2.6	63
95	Tough and Fatigue Resistant Biomimetic Hydrogels of Interlaced Self-Assembled Conjugated Polymer Belts with a Polyelectrolyte Network. *Chemistry of Materials*, **2014**, 26, 3522-3529	9.6	59
94	Ultra high molecular weight polyethylene with improved plasticity and toughness by high temperature melting. *Polymer*, **2010**, 51, 2721-2731	3.9	57
93	Tough and biocompatible hydrogels based on in situ interpenetrating networks of dithiol-connected graphene oxide and poly(vinyl alcohol). *ACS Applied Materials & Interfaces*, **2015**, 7, 3003-8	9.5	55
92	Snap-Buckling Motivated Controllable Jumping of Thermo-Responsive Hydrogel Bilayers. *ACS Applied Materials & Interfaces*, **2018**, 10, 41724-41731	9.5	54
91	Direct 3D Printed Biomimetic Scaffolds Based on Hydrogel Microparticles for Cell Spheroid Growth. *Advanced Functional Materials*, **2020**, 30, 1910573	15.6	54
90	Super-hydrophobicity of silica nanoparticles modified with vinyl groups. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 338, 15-19	5.1	53
89	Macroporous biphasic calcium phosphate scaffolds reinforced by poly-L-lactic acid/hydroxyapatite nanocomposite coatings for bone regeneration. *Biochemical Engineering Journal*, **2015**, 98, 29-37	4.2	52
88	Ordered droplet formation by thin polymer film dewetting on a stripe-patterned substrate. *Journal of Colloid and Interface Science*, **2004**, 269, 158-63	9.3	50
87	Natural polysaccharides promote chondrocyte adhesion and proliferation on magnetic nanoparticle/PVA composite hydrogels. *Colloids and Surfaces B: Biointerfaces*, **2015**, 132, 146-54	6	43
86	Conductive graphene oxide hydrogels reduced and bridged by l-cysteine to support cell adhesion and growth. *Journal of Materials Chemistry B*, **2017**, 5, 511-516	7.3	42
85	Multifunctional conductive hydrogels and their applications as smart wearable devices. *Journal of Materials Chemistry B*, **2021**, 9, 2561-2583	7.3	40
84	High temperature melted, radiation cross-linked, vitamin E stabilized oxidation resistant UHMWPE with low wear and high impact strength. *Polymer*, **2013**, 54, 199-209	3.9	39
83	Tissue adhesive hydrogel bioelectronics. *Journal of Materials Chemistry B*, **2021**, 9, 4423-4443	7.3	39

82	Shape memory/change effect in a double network nanocomposite tough hydrogel. *European Polymer Journal*, **2014**, 58, 41-51	5.2	38
81	Instability/collapse of polymeric materials and their structures in stimulus-induced shape/surface morphology switching. *Materials & Design*, **2014**, 59, 176-192		38
80	Strong and tough hydrogels crosslinked by multi-functional polymer colloids. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 1336-1350	2.6	37
79	Water-induced morphology evolution of block copolymer micellar thin films. *Polymer*, **2005**, 46, 5377-5384	3.9	35
78	Antibacterial Zwitterionic Polyelectrolyte Hydrogel Adhesives with Adhesion Strength Mediated by Electrostatic Mismatch. *ACS Applied Materials & Interfaces*, **2020**, 12, 46816-46826	9.5	35
77	Versatile controlled ion release for synthesis of recoverable hybrid hydrogels with high stretchability and notch-insensitivity. *Chemical Communications*, **2015**, 51, 15534-7	5.8	33
76	Highly Sensitive Pressure and Strain Sensors Based on Stretchable and Recoverable Ion-Conductive Physically Cross-Linked Double-Network Hydrogels. *ACS Applied Materials & Interfaces*, **2020**, 12, 51969-51977	9.5	33
75	Multi-responsive nanocomposite hydrogels with high strength and toughness. *Journal of Materials Chemistry B*, **2016**, 4, 1733-1739	7.3	33
74	Stiff micelle-crosslinked hyaluronate hydrogels with low swelling for potential cartilage repair. *Journal of Materials Chemistry B*, **2019**, 7, 5490-5501	7.3	33
73	Tough and self-recoverable hydrogels crosslinked by triblock copolymer micelles and Fe3+ coordination. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 865-876	2.6	32
72	Macroscopic assembly of oppositely charged polyelectrolyte hydrogels. *Journal of Materials Chemistry B*, **2018**, 6, 257-264	7.3	32
71	Biomimetic hydrogel for rapid and scar-free healing of skin wounds inspired by the healing process of oral mucosa. *Acta Biomaterialia*, **2019**, 100, 255-269	10.8	31
70	Micro-contact printing of graphene oxide nanosheets for fabricating patterned polymer brushes. *Chemical Communications*, **2014**, 50, 7103-6	5.8	31
69	Wear resistant UHMWPE with high toughness by high temperature melting and subsequent radiation cross-linking. *Polymer*, **2011**, 52, 1155-1162	3.9	30
68	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 52307-52318	9.5	30
67	Natural polyphenol-stabilised highly crosslinked UHMWPE with high mechanical properties and low wear for joint implants. *Journal of Materials Chemistry B*, **2013**, 1, 4727-4735	7.3	29
66	Reversibly strain-tunable elastomeric photonic crystals. *Chemical Physics Letters*, **2004**, 390, 285-289	2.5	29
65	Controllable promotion of chondrocyte adhesion and growth on PVA hydrogels by controlled release of TGF-β1 from porous PLGA microspheres. *Colloids and Surfaces B: Biointerfaces*, **2015**, 125, 51-7	6	28

64	Thermo-responsive hydrogels with tunable transition temperature crosslinked by multifunctional graphene oxide nanosheets. *Composites Science and Technology*, **2017**, 151, 139-146	8.6	27
63	Self-organization and luminescent properties of nanostructured europium (III) β-diketonate block copolymer complex thin films. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 2181-2189	2.6	26
62	Surface functionalized barium sulfate nanoparticles: controlled in situ synthesis and application in bone cement. *Journal of Materials Chemistry B*, **2014**, 2, 1264-1274	7.3	24
61	Versatile fabrication of arbitrarily shaped multi-membrane hydrogels suitable for biomedical applications. *Journal of Materials Chemistry B*, **2013**, 1, 485-492	7.3	23
60	Recent progress in polymer hydrogel bioadhesives. *Journal of Polymer Science*, **2021**, 59, 1312-1337	2.4	23
59	Super tough bilayer actuators based on multi-responsive hydrogels crosslinked by functional triblock copolymer micelle macro-crosslinkers. *Journal of Materials Chemistry B*, **2019**, 7, 2619-2625	7.3	22
58	Fabrication of hollow porous PLGA microspheres for controlled protein release and promotion of cell compatibility. *Chinese Chemical Letters*, **2013**, 24, 710-714	8.1	22
57	Effects of simulated oxidation on the in vitro wear and mechanical properties of irradiated and melted highly crosslinked UHMWPE. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 316-22	3.5	22
56	Risk factors and clinical characteristics of deep knee infection in patients with intra-articular injections: A matched retrospective cohort analysis. *Seminars in Arthritis and Rheumatism*, **2018**, 47, 911-916	5.3	21
55	Programmable and Reversible 3D-/4D-Shape-Morphing Hydrogels with Precisely Defined Ion Coordination. *ACS Applied Materials & Interfaces*, **2020**, 12, 26476-26484	9.5	20
54	Stabilization of highly crosslinked ultra high molecular weight polyethylene with natural polyphenols. *Polymer Degradation and Stability*, **2014**, 105, 197-205	4.7	19
53	White-light-emitting flexible display devices based on double network hydrogels crosslinked by YAG:Ce phosphors. *Journal of Materials Chemistry C*, **2020**, 8, 247-252	7.1	19
52	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosan-Gelatin Hydrogel Composites for Tissue Engineering. *ACS Applied Materials & Interfaces*, **2021**, 13, 22902-22913	9.5	19
51	Meta-analysis of sonication prosthetic fluid PCR for diagnosing periprosthetic joint infection. *PLoS ONE*, **2018**, 13, e0196418	3.7	18
50	Molecular motions of different scales at thin polystyrene film surface by lateral force microscopy. *Journal of Chemical Physics*, **2005**, 123, 64713	3.9	18
49	Synergistic toughening of nanocomposite double network hydrogels by physical adsorption and chemical bonding of polymer chains to inorganic nanospheres and nanorods: a comparative study. *RSC Advances*, **2016**, 6, 37974-37981	3.7	18
48	Super tough, ultra-stretchable, and fast recoverable double network hydrogels physically crosslinked by triple non-covalent interactions. *Polymer*, **2020**, 192, 122319	3.9	17
47	Biomimetic epidermal sensors assembled from polydopamine-modified reduced graphene oxide/polyvinyl alcohol hydrogels for the real-time monitoring of human motions. *Journal of Materials Chemistry B*, **2020**, 8, 10549-10558	7.3	17

46	Early Stage Interplay of Microphase Separation and Crystallization in Crystalline□Coil Poly(l-lactic acid)-block-polystyrene Thin Films. *Macromolecules*, **2005**, 38, 5118-5127	5.5	16
45	Hole Nucleation and Growth Induced by Crystallization and Microphase Separation of Thin Semicrystalline Diblock Copolymer Films. *Macromolecules*, **2004**, 37, 6918-6925	5.5	16
44	AFM Study of the Self-Assembly Behavior of Hexa-Armed Star Polymers with a Discotic Triphenylene Core. *Macromolecular Rapid Communications*, **2003**, 24, 742-747	4.8	16
43	Fabrication of a Metal Particle Array Based on a Self-Assembled Template from a Two-Armed Polymer. *Macromolecular Rapid Communications*, **2003**, 24, 487-491	4.8	14
42	Natural polyphenols enhance stability of crosslinked UHMWPE for joint implants. *Clinical Orthopaedics and Related Research*, **2015**, 473, 760-6	2.2	13
41	Patterned self-adaptive polymer brushes by □rafting to□approach and microcontact printing. *Surface Science*, **2004**, 572, 490-496	1.8	13
40	Synergistic pH and Temperature-Driven Actuation of Poly(NIPAM-co-DMAPMA)/Clay Nanocomposite Hydrogel Bilayers. *ACS Omega*, **2018**, 3, 17914-17921	3.9	13
39	Effect of squalene absorption on oxidative stability of highly crosslinked UHMWPE stabilized with natural polyphenols. *Polymer Degradation and Stability*, **2014**, 110, 113-120	4.7	12
38	3D hierarchically ordered composite block copolymer hollow sphere arrays by solution wetting. *Langmuir*, **2010**, 26, 12336-41	4	12
37	Fabrication of arrays of silver nanoparticle aggregates by microcontact printing and block copolymer nanoreactors. *Journal of Applied Polymer Science*, **2006**, 100, 2737-2743	2.9	12
36	Tough and multi-responsive hydrogels based on core-shell structured macro-crosslinkers. *Chinese Journal of Polymer Science (English Edition)*, **2017**, 35, 1286-1296	3.5	11
35	Aqueous networks and toroids of amphiphilic block copolymer with non-ionic surfactants. *ChemPhysChem*, **2009**, 10, 1190-4	3.2	11
34	Ordered macroporous films from self-assembly of two-armed polymer with a crown ether core. *Polymer*, **2004**, 45, 7389-7394	3.9	11
33	Single cell migration dynamics mediated by geometric confinement. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 72-78	6	11
32	Controlled in situ synthesis of surface functionalized BaSO nanoparticles for improved bone cement reinforcement. *Journal of Materials Chemistry B*, **2013**, 1, 4043-4047	7.3	10
31	Dewetting behavior of polystyrene film filled with (C6H5C2H4NH3)2PbI4. *Journal of Chemical Physics*, **2008**, 129, 054905	3.9	10
30	Colour-tunable quantum dots/poly(NIPAM-co-AAc) hybrid microgels based on electrostatic interactions. *RSC Advances*, **2016**, 6, 98147-98152	3.7	8
29	Generalized Synthesis of Mesoporous Rare Earth Oxide Thin Films through Amphiphilic Ionic Block Copolymer Templating. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1251-1257	2.3	8

28	Preoperatively elevated serum inflammatory markers increase the risk of periprosthetic joint infection following total knee arthroplasty in patients with osteoarthritis. *Therapeutics and Clinical Risk Management*, **2018**, 14, 1719-1724	2.9	8
27	Does serum interleukin-6 guide the diagnosis of persistent infection in two-stage hip revision for periprosthetic joint infection?. *Journal of Orthopaedic Surgery and Research*, **2019**, 14, 354	2.8	7
26	Lamella reorientation in thin films of a symmetric poly(l-lactic acid)-block-polystyrene upon crystallization at different temperatures. *Polymer*, **2009**, 50, 1588-1595	3.9	7
25	Shape memory effect and rapid reversible actuation of nanocomposite hydrogels with electrochemically controlled local metal ion coordination and crosslinking. *Journal of Materials Chemistry B*, **2020**, 8, 9679-9685	7.3	7
24	Effect of solvent–matrix interactions on structures and mechanical properties of micelle-crosslinked gels. *Journal of Polymer Science, Part B: Polymer Physics*, **2019**, 57, 473-483	2.6	6
23	Vitamin E can be used to hinder scissioning in radiation cross-linked UHMWPE during high-temperature melting. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	6
22	Controlled evaporative self-assembly of poly(acrylic acid) in a confined geometry for fabricating patterned polymer brushes. *Langmuir*, **2014**, 30, 4863-7	4	5
21	Surface morphology evolution of poly(styrene-block-4-vinylpyridine) (PS-b-P4VP)(H+) and poly(methyl methacrylate)-dibenzo-18-crown-6-poly(methyl methacrylate) (PMCMA) supramolecular film. *Polymer*, **2007**, 48, 2425-2433	3.9	5
20	Application of a novel thermo-sensitive injectable hydrogel in therapy in situ for drug accurate controlled release. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 3200-3216	3.5	4
19	C60-Decorated Melanin Nanoparticles Conjugated with Hyaluronic Acid for Synergistic Theranostic and Immunotherapy of Tumors under near-Infrared Excitation. *ACS Applied Nano Materials*, **2020**, 3, 8817-8828	5.6	4
18	Triblock Copolymer Micelle-Crosslinked Hydrogels. *Advances in Polymer Science*, **2020**, 211-241	1.3	3
17	Tough Responsive Polymer Hydrogels and Devices Crosslinked by Block Copolymer Micelles. *Macromolecular Symposia*, **2019**, 385, 1800188	0.8	3
16	Micellization behavior of temperature-responsive poly (N-isopropylacrylamide) grafted dextran copolymers. *Journal of Materials Science Letters*, **2002**, 21, 1453-1455		3
15	Morphological transformations of nonequilibrium assemblies of amphiphilic diblock copolymer. *Colloid Journal*, **2014**, 76, 774-781	1.1	2
14	Hydration and Thermal Response Kinetics of a Cross-Linked Thermoresponsive Copolymer Film on a Hydrophobic PAN Substrate Coating Probed by Neutron Reflectivity. *Langmuir*, **2021**, 37, 6819-6829	4	2
13	Correction: Multi-responsive nanocomposite hydrogels with high strength and toughness. *Journal of Materials Chemistry B*, **2016**, 4, 6609	7.3	2
12	Shear-induced slippage of the self-assembly of crown ether-centered two-armed copolymers. *Applied Surface Science*, **2005**, 252, 1132-1138	6.7	1
11	Acid-induced morphological transition of block copolymer brush adsorbed on mica surface. *Polymer International*, **2005**, 54, 1021-1026	3.3	1

10	Non-covalent Tough Hydrogels for Functional Actuators. *MRS Advances*, **2016**, 1, 501-507	0.7	1
9	Dynamic and structural studies on synergetic energy dissipation mechanisms of single-, double-, and triple-network hydrogels sequentially crosslinked by multiple non-covalent interactions. *Polymer*, **2022**, 250, 124868	3.9	1
8	Clinical Applications of UHMWPE in Joint Implants. *Springer Series in Biomaterials Science and Engineering*, **2019**, 1-20	0.6	0
7	Natural Polyphenol-Stabilized Highly Cross-Linked UHMWPE for Joint Implants. *Springer Series in Biomaterials Science and Engineering*, **2019**, 93-114	0.6	0
6	High-Temperature Melted, Cross-Linked, and Stabilized Ultrahigh Molecular Weight Polyethylene. *Springer Series in Biomaterials Science and Engineering*, **2019**, 115-150	0.6	0
5	3D Bioprinting Microgels: Direct 3D Printed Biomimetic Scaffolds Based on Hydrogel Microparticles for Cell Spheroid Growth (Adv. Funct. Mater. 13/2020). *Advanced Functional Materials*, **2020**, 30, 2070085	15.6	0
4	Highly Crosslinked UHMWPE for Joint Implants. *Springer Series in Biomaterials Science and Engineering*, **2019**, 21-68	0.6	0
3	Ion-Excited Mechanically Active Self-Assembling Membranes for Rapid Wound Healing. *ACS Applied Bio Materials*, **2021**, 4, 605-619	4.1	0
2	Responsive Bilayered Hydrogel Actuators Assembled by Supramolecular Recognition. *MRS Advances*, **2018**, 3, 1583-1588	0.7	
1	Photoluminescent nanoparticles of organic–inorganic hybrids prepared by phase transfer complexation at the organic–aqueous solution interface. *Nanotechnology*, **2007**, 18, 025704	3.4	