

Jun Fu

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.

117
papers

4,590
citations

38
h-index

64
g-index

122
ext. papers

5,609
ext. citations

5.2
avg, IF

6.21
L-index

#	Paper	IF	Citations
117	Dynamic and structural studies on synergetic energy dissipation mechanisms of single-, double-, and triple-network hydrogels sequentially crosslinked by multiple non-covalent interactions. <i>Polymer</i> , 2022 , 250, 124868	3.9	1
116	Hydration and Thermal Response Kinetics of a Cross-Linked Thermoresponsive Copolymer Film on a Hydrophobic PAN Substrate Coating Probed by Neutron Reflectivity. <i>Langmuir</i> , 2021 , 37, 6819-6829	4	2
115	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosan-Gelatin Hydrogel Composites for Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22902-22913	9.5	19
114	Recent progress in polymer hydrogel bioadhesives. <i>Journal of Polymer Science</i> , 2021 , 59, 1312-1337	2.4	23
113	Tissue adhesive hydrogel bioelectronics. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4423-4443	7.3	39
112	Ion-Excited Mechanically Active Self-Assembling Membranes for Rapid Wound Healing. <i>ACS Applied Bio Materials</i> , 2021 , 4, 605-619	4.1	0
111	Multifunctional conductive hydrogels and their applications as smart wearable devices. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2561-2583	7.3	40
110	Highly Sensitive Pressure and Strain Sensors Based on Stretchable and Recoverable Ion-Conductive Physically Cross-Linked Double-Network Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51969-51977	9.5	33
109	Triblock Copolymer Micelle-Crosslinked Hydrogels. <i>Advances in Polymer Science</i> , 2020 , 211-241	1.3	3
108	3D Bioprinting Microgels: Direct 3D Printed Biomimetic Scaffolds Based on Hydrogel Microparticles for Cell Spheroid Growth (Adv. Funct. Mater. 13/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070085	15.6	0
107	Super tough, ultra-stretchable, and fast recoverable double network hydrogels physically crosslinked by triple non-covalent interactions. <i>Polymer</i> , 2020 , 192, 122319	3.9	17
106	Stretchable and tough conductive hydrogels for flexible pressure and strain sensors. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 3437-3459	7.3	163
105	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. <i>Materials Horizons</i> , 2020 , 7, 1872-1882	14.4	138
104	Programmable and Reversible 3D-/4D-Shape-Morphing Hydrogels with Precisely Defined Ion Coordination. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26476-26484	9.5	20
103	White-light-emitting flexible display devices based on double network hydrogels crosslinked by YAG:Ce phosphors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 247-252	7.1	19
102	Biomimetic epidermal sensors assembled from polydopamine-modified reduced graphene oxide/polyvinyl alcohol hydrogels for the real-time monitoring of human motions. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10549-10558	7.3	17
101	Antibacterial Zwitterionic Polyelectrolyte Hydrogel Adhesives with Adhesion Strength Mediated by Electrostatic Mismatch. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46816-46826	9.5	35

100	Application of a novel thermo-sensitive injectable hydrogel in therapy in situ for drug accurate controlled release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 3200-3216 ⁴	3.5	216
99	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52307-52318 ^{9.5}	30	
98	C60-Decorated Melanin Nanoparticles Conjugated with Hyaluronic Acid for Synergistic Theranostic and Immunotherapy of Tumors under near-Infrared Excitation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8817-8828 ⁴	5.6	28
97	Shape memory effect and rapid reversible actuation of nanocomposite hydrogels with electrochemically controlled local metal ion coordination and crosslinking. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9679-9685	7.3	7
96	Direct 3D Printed Biomimetic Scaffolds Based on Hydrogel Microparticles for Cell Spheroid Growth. <i>Advanced Functional Materials</i> , 2020 , 30, 1910573	15.6	54
95	Flexible and wearable strain sensors based on tough and self-adhesive ion conducting hydrogels. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 24-29	7.3	107
94	Clinical Applications of UHMWPE in Joint Implants. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019 , 1-20	0.6	0
93	Natural Polyphenol-Stabilized Highly Cross-Linked UHMWPE for Joint Implants. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019 , 93-114	0.6	0
92	High-Temperature Melted, Cross-Linked, and Stabilized Ultrahigh Molecular Weight Polyethylene. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019 , 115-150	0.6	0
91	Super tough bilayer actuators based on multi-responsive hydrogels crosslinked by functional triblock copolymer micelle macro-crosslinkers. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2619-2625	7.3	22
90	Effect of solvent-matrix interactions on structures and mechanical properties of micelle-crosslinked gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 473-483	2.6	6
89	Stiff micelle-crosslinked hyaluronate hydrogels with low swelling for potential cartilage repair. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5490-5501	7.3	33
88	Tough Responsive Polymer Hydrogels and Devices Crosslinked by Block Copolymer Micelles. <i>Macromolecular Symposia</i> , 2019 , 385, 1800188	0.8	3
87	Biomimetic hydrogel for rapid and scar-free healing of skin wounds inspired by the healing process of oral mucosa. <i>Acta Biomaterialia</i> , 2019 , 100, 255-269	10.8	31
86	Does serum interleukin-6 guide the diagnosis of persistent infection in two-stage hip revision for periprosthetic joint infection?. <i>Journal of Orthopaedic Surgery and Research</i> , 2019 , 14, 354	2.8	7
85	Highly Crosslinked UHMWPE for Joint Implants. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019 , 21-68	0.6	0
84	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3506-3515	9.5	183
83	Responsive Bilayered Hydrogel Actuators Assembled by Supramolecular Recognition. <i>MRS Advances</i> , 2018 , 3, 1583-1588	0.7	

82	Tough and self-recoverable hydrogels crosslinked by triblock copolymer micelles and Fe ³⁺ coordination. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 865-876	2.6	32
81	Meta-analysis of sonication prosthetic fluid PCR for diagnosing periprosthetic joint infection. <i>PLoS ONE</i> , 2018 , 13, e0196418	3.7	18
80	Macroscopic assembly of oppositely charged polyelectrolyte hydrogels. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 257-264	7.3	32
79	Risk factors and clinical characteristics of deep knee infection in patients with intra-articular injections: A matched retrospective cohort analysis. <i>Seminars in Arthritis and Rheumatism</i> , 2018 , 47, 911-916	5.3	21
78	Synergistic pH and Temperature-Driven Actuation of Poly(NIPAM-co-DMAPMA)/Clay Nanocomposite Hydrogel Bilayers. <i>ACS Omega</i> , 2018 , 3, 17914-17921	3.9	13
77	Ultrastretchable Strain Sensors and Arrays with High Sensitivity and Linearity Based on Super Tough Conductive Hydrogels. <i>Chemistry of Materials</i> , 2018 , 30, 8062-8069	9.6	207
76	Preoperatively elevated serum inflammatory markers increase the risk of periprosthetic joint infection following total knee arthroplasty in patients with osteoarthritis. <i>Therapeutics and Clinical Risk Management</i> , 2018 , 14, 1719-1724	2.9	8
75	Strong and tough hydrogels crosslinked by multi-functional polymer colloids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1336-1350	2.6	37
74	Snap-Buckling Motivated Controllable Jumping of Thermo-Responsive Hydrogel Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41724-41731	9.5	54
73	Conductive graphene oxide hydrogels reduced and bridged by l-cysteine to support cell adhesion and growth. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 511-516	7.3	42
72	Thermo-responsive hydrogels with tunable transition temperature crosslinked by multifunctional graphene oxide nanosheets. <i>Composites Science and Technology</i> , 2017 , 151, 139-146	8.6	27
71	Tough and multi-responsive hydrogels based on core-shell structured macro-crosslinkers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 1286-1296	3.5	11
70	Electric Field Actuation of Tough Electroactive Hydrogels Cross-Linked by Functional Triblock Copolymer Micelles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26326-26331	9.5	82
69	Colour-tunable quantum dots/poly(NIPAM-co-AAc) hybrid microgels based on electrostatic interactions. <i>RSC Advances</i> , 2016 , 6, 98147-98152	3.7	8
68	Multi-responsive nanocomposite hydrogels with high strength and toughness. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1733-1739	7.3	33
67	Effects of simulated oxidation on the in vitro wear and mechanical properties of irradiated and melted highly crosslinked UHMWPE. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 316-22	3.5	22
66	Tough and responsive oppositely charged nanocomposite hydrogels for use as bilayer actuators assembled through interfacial electrostatic attraction. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3239-3248	7.3	72
65	Non-covalent Tough Hydrogels for Functional Actuators. <i>MRS Advances</i> , 2016 , 1, 501-507	0.7	1

64	Synergistic toughening of nanocomposite double network hydrogels by physical adsorption and chemical bonding of polymer chains to inorganic nanospheres and nanorods: a comparative study. <i>RSC Advances</i> , 2016 , 6, 37974-37981	3.7	18
63	Single cell migration dynamics mediated by geometric confinement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 145, 72-78	6	11
62	Correction: Multi-responsive nanocomposite hydrogels with high strength and toughness. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6609	7.3	2
61	Multi-responsive and tough hydrogels based on triblock copolymer micelles as multi-functional macro-crosslinkers. <i>Chemical Communications</i> , 2015 , 51, 8512-5	5.8	78
60	Macroporous biphasic calcium phosphate scaffolds reinforced by poly-L-lactic acid/hydroxyapatite nanocomposite coatings for bone regeneration. <i>Biochemical Engineering Journal</i> , 2015 , 98, 29-37	4.2	52
59	Natural polyphenols enhance stability of crosslinked UHMWPE for joint implants. <i>Clinical Orthopaedics and Related Research</i> , 2015 , 473, 760-6	2.2	13
58	Natural polysaccharides promote chondrocyte adhesion and proliferation on magnetic nanoparticle/PVA composite hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 132, 146-54	6	43
57	Tough biodegradable chitosan-gelatin hydrogels via in situ precipitation for potential cartilage tissue engineering. <i>RSC Advances</i> , 2015 , 5, 55640-55647	3.7	64
56	From 3D to 4D printing: approaches and typical applications. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 4281-4288	1.6	121
55	Versatile controlled ion release for synthesis of recoverable hybrid hydrogels with high stretchability and notch-insensitivity. <i>Chemical Communications</i> , 2015 , 51, 15534-7	5.8	33
54	Controllable promotion of chondrocyte adhesion and growth on PVA hydrogels by controlled release of TGF- β from porous PLGA microspheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 51-7	6	28
53	Vitamin E can be used to hinder scissioning in radiation cross-linked UHMWPE during high-temperature melting. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	6
52	Self-healable, tough, and ultrastretchable nanocomposite hydrogels based on reversible polyacrylamide/montmorillonite adsorption. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5029-37	9.5	247
51	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, 3003-8	9.5	55
50	Micro-contact printing of graphene oxide nanosheets for fabricating patterned polymer brushes. <i>Chemical Communications</i> , 2014 , 50, 7103-6	5.8	31
49	Super-tough and thermo-healable hydrogel - promising for shape-memory absorbent fiber. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7631-7638	7.3	85
48	Tough nanocomposite double network hydrogels reinforced with clay nanorods through covalent bonding and reversible chain adsorption. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1539-1548	7.3	84
47	Surface functionalized barium sulfate nanoparticles: controlled in situ synthesis and application in bone cement. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1264-1274	7.3	24

46	Effect of squalene absorption on oxidative stability of highly crosslinked UHMWPE stabilized with natural polyphenols. <i>Polymer Degradation and Stability</i> , 2014 , 110, 113-120	4.7	12
45	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	9.6	59
44	Super Tough, Ultrastretchable, and Thermo-responsive Hydrogels with Functionalized Triblock Copolymer Micelles as Macro-Cross-Linkers.. <i>ACS Macro Letters</i> , 2014 , 3, 496-500	6.6	154
43	Controlled evaporative self-assembly of poly(acrylic acid) in a confined geometry for fabricating patterned polymer brushes. <i>Langmuir</i> , 2014 , 30, 4863-7	4	5
42	Shape memory/change effect in a double network nanocomposite tough hydrogel. <i>European Polymer Journal</i> , 2014 , 58, 41-51	5.2	38
41	Instability/collapse of polymeric materials and their structures in stimulus-induced shape/surface morphology switching. <i>Materials & Design</i> , 2014 , 59, 176-192		38
40	Stabilization of highly crosslinked ultra high molecular weight polyethylene with natural polyphenols. <i>Polymer Degradation and Stability</i> , 2014 , 105, 197-205	4.7	19
39	Morphological transformations of nonequilibrium assemblies of amphiphilic diblock copolymer. <i>Colloid Journal</i> , 2014 , 76, 774-781	1.1	2
38	Fabrication of hollow porous PLGA microspheres for controlled protein release and promotion of cell compatibility. <i>Chinese Chemical Letters</i> , 2013 , 24, 710-714	8.1	22
37	Magnetic nanohydroxyapatite/PVA composite hydrogels for promoted osteoblast adhesion and proliferation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 318-25	6	68
36	Generalized Synthesis of Mesoporous Rare Earth Oxide Thin Films through Amphiphilic Ionic Block Copolymer Templating. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1251-1257	2.3	8
35	Controlled in situ synthesis of surface functionalized BaSO nanoparticles for improved bone cement reinforcement. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4043-4047	7.3	10
34	Natural polyphenol-stabilised highly crosslinked UHMWPE with high mechanical properties and low wear for joint implants. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4727-4735	7.3	29
33	High temperature melted, radiation cross-linked, vitamin E stabilized oxidation resistant UHMWPE with low wear and high impact strength. <i>Polymer</i> , 2013 , 54, 199-209	3.9	39
32	Versatile fabrication of arbitrarily shaped multi-membrane hydrogels suitable for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 485-492	7.3	23
31	Degradable natural polymer hydrogels for articular cartilage tissue engineering. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 327-339	3.5	232
30	Super-tough double-network hydrogels reinforced by covalently compositing with silica-nanoparticles. <i>Soft Matter</i> , 2012 , 8, 6048	3.6	159
29	Wear resistant UHMWPE with high toughness by high temperature melting and subsequent radiation cross-linking. <i>Polymer</i> , 2011 , 52, 1155-1162	3.9	30

28	3D hierarchically ordered composite block copolymer hollow sphere arrays by solution wetting. <i>Langmuir</i> , 2010 , 26, 12336-41	4	12
27	Ultra high molecular weight polyethylene with improved plasticity and toughness by high temperature melting. <i>Polymer</i> , 2010 , 51, 2721-2731	3.9	57
26	Aqueous networks and toroids of amphiphilic block copolymer with non-ionic surfactants. <i>ChemPhysChem</i> , 2009 , 10, 1190-4	3.2	11
25	Lamella reorientation in thin films of a symmetric poly(l-lactic acid)-block-polystyrene upon crystallization at different temperatures. <i>Polymer</i> , 2009 , 50, 1588-1595	3.9	7
24	Super-hydrophobicity of silica nanoparticles modified with vinyl groups. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 338, 15-19	5.1	53
23	Dewetting behavior of polystyrene film filled with (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ PbI ₄ . <i>Journal of Chemical Physics</i> , 2008 , 129, 054905	3.9	10
22	Surface morphology evolution of poly(styrene-block-4-vinylpyridine) (PS-b-P4VP)(H ⁺) and poly(methyl methacrylate)-dibenzo-18-crown-6-poly(methyl methacrylate) (PMCMMA) supramolecular film. <i>Polymer</i> , 2007 , 48, 2425-2433	3.9	5
21	Photoluminescent nanoparticles of organic-inorganic hybrids prepared by phase transfer complexation at the organic-aqueous solution interface. <i>Nanotechnology</i> , 2007 , 18, 025704	3.4	
20	Fabrication of arrays of silver nanoparticle aggregates by microcontact printing and block copolymer nanoreactors. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 2737-2743	2.9	12
19	Macroporous fluoropolymeric films templated by silica colloidal assembly: A possible route to super-hydrophobic surfaces. <i>Applied Surface Science</i> , 2006 , 252, 2229-2234	6.7	74
18	Molecular motions of different scales at thin polystyrene film surface by lateral force microscopy. <i>Journal of Chemical Physics</i> , 2005 , 123, 64713	3.9	18
17	Early Stage Interplay of Microphase Separation and Crystallization in Crystalline-coil Poly(l-lactic acid)-block-polystyrene Thin Films. <i>Macromolecules</i> , 2005 , 38, 5118-5127	5.5	16
16	Ordered honeycomb-structured gold nanoparticle films with changeable pore morphology: from circle to ellipse. <i>Langmuir</i> , 2005 , 21, 2017-21	4	86
15	Shear-induced slippage of the self-assembly of crown ether-centered two-armed copolymers. <i>Applied Surface Science</i> , 2005 , 252, 1132-1138	6.7	1
14	Water-induced morphology evolution of block copolymer micellar thin films. <i>Polymer</i> , 2005 , 46, 5377-5384	3.4	35
13	Self-organization and luminescent properties of nanostructured europium (III)-block copolymer complex thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 2181-2189	2.6	26
12	Acid-induced morphological transition of block copolymer brush adsorbed on mica surface. <i>Polymer International</i> , 2005 , 54, 1021-1026	3.3	1
11	Patterned self-adaptive polymer brushes by grafting to approach and microcontact printing. <i>Surface Science</i> , 2004 , 572, 490-496	1.8	13

10	Ordered droplet formation by thin polymer film dewetting on a stripe-patterned substrate. <i>Journal of Colloid and Interface Science</i> , 2004 , 269, 158-63	9.3	50
9	Ordered macroporous films from self-assembly of two-armed polymer with a crown ether core. <i>Polymer</i> , 2004 , 45, 7389-7394	3.9	11
8	Reversibly strain-tunable elastomeric photonic crystals. <i>Chemical Physics Letters</i> , 2004 , 390, 285-289	2.5	29
7	Hole Nucleation and Growth Induced by Crystallization and Microphase Separation of Thin Semicrystalline Diblock Copolymer Films. <i>Macromolecules</i> , 2004 , 37, 6918-6925	5.5	16
6	Self-Assembly of Crystalline Coil Diblock Copolymer in Solvents with Varying Selectivity: From Spinodal-like Aggregates to Spheres, Cylinders, and Lamellae. <i>Macromolecules</i> , 2004 , 37, 976-986	5.5	79
5	Formation and photoluminescence of silver nanoparticles stabilized by a two-armed polymer with a crown ether core. <i>Langmuir</i> , 2004 , 20, 9775-9	4	88
4	Formation of Regular Hole Pattern in Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2003 , 204, 125-130	2.6	63
3	AFM Study of the Self-Assembly Behavior of Hexa-Armed Star Polymers with a Discotic Triphenylene Core. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 742-747	4.8	16
2	Fabrication of a Metal Particle Array Based on a Self-Assembled Template from a Two-Armed Polymer. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 487-491	4.8	14
1	Micellization behavior of temperature-responsive poly (N-isopropylacrylamide) grafted dextran copolymers. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1453-1455		3