

Jun Fu

List of Publications by Year in descending order

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119
papers

6,649
citations

57631

44
h-index

66788

78
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122
all docs

122
docs citations

122
times ranked

7283
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable and tough conductive hydrogels for flexible pressure and strain sensors. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3437-3459.	2.9	372
2	Degradable natural polymer hydrogels for articular cartilage tissue engineering. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 327-339.	1.6	326
3	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.	3.2	318
4	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.	4.0	309
5	Self-Healable, Tough, and Ultrastretchable Nanocomposite Hydrogels Based on Reversible Polyacrylamide/Montmorillonite Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5029-5037.	4.0	288
6	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.	6.4	273
7	Super-tough double-network hydrogels reinforced by covalently compositing with silica-nanoparticles. <i>Soft Matter</i> , 2012, 8, 6048.	1.2	197
8	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.	2.3	176
9	Multifunctional conductive hydrogels and their applications as smart wearable devices. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2561-2583.	2.9	166
10	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.	2.9	165
11	From 3D to 4D printing: approaches and typical applications. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 4281-4288.	0.7	164
12	Tissue adhesive hydrogel bioelectronics. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4423-4443.	2.9	129
13	Electric Field Actuation of Tough Electroactive Hydrogels Cross-Linked by Functional Triblock Copolymer Micelles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26326-26331.	4.0	102
14	Hydrogel properties and applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1523-1525.	2.9	101
15	Super-tough and thermo-healable hydrogel "promising for shape-memory absorbent fiber. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7631-7638.	2.9	100
16	Direct 3D Printed Biomimetic Scaffolds Based on Hydrogel Microparticles for Cell Spheroid Growth. <i>Advanced Functional Materials</i> , 2020, 30, 1910573.	7.8	99
17	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.	4.0	95
18	Formation and Photoluminescence of Silver Nanoparticles Stabilized by a Two-Armed Polymer with a Crown Ether Core. <i>Langmuir</i> , 2004, 20, 9775-9779.	1.6	94

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19	Ordered Honeycomb-Structured Gold Nanoparticle Films with Changeable Pore Morphology: From Circle to Ellipse. <i>Langmuir</i> , 2005, 21, 2017-2021.	1.6	94
20	Magnetic nanohydroxyapatite/PVA composite hydrogels for promoted osteoblast adhesion and proliferation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 318-325.	2.5	93
21	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.	2.9	90
22	Snap-Buckling Motivated Controllable Jumping of Thermo-Responsive Hydrogel Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41724-41731.	4.0	90
23	Macroporous fluoropolymeric films templated by silica colloidal assembly: A possible route to super-hydrophobic surfaces. <i>Applied Surface Science</i> , 2006, 252, 2229-2234.	3.1	87
24	Multi-responsive and tough hydrogels based on triblock copolymer micelles as multi-functional macro-crosslinkers. <i>Chemical Communications</i> , 2015, 51, 8512-8515.	2.2	87
25	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.	2.2	80
26	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, 3239-3246.	2.9	80
27	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.	4.0	79
28	Tough biodegradable chitosan-gelatin hydrogels via in situ precipitation for potential cartilage tissue engineering. <i>RSC Advances</i> , 2015, 5, 55640-55647.	1.7	78
29	Antibacterial Zwitterionic Polyelectrolyte Hydrogel Adhesives with Adhesion Strength Mediated by Electrostatic Mismatch. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46816-46826.	4.0	77
30	Recent progress in polymer hydrogel bioadhesives. <i>Journal of Polymer Science</i> , 2021, 59, 1312-1337.	2.0	77
31	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.	4.0	72
32	Stiff micelle-crosslinked hyaluronate hydrogels with low swelling for potential cartilage repair. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5490-5501.	2.9	69
33	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.	3.2	68
34	Ultra high molecular weight polyethylene with improved plasticity and toughness by high temperature melting. <i>Polymer</i> , 2010, 51, 2721-2731.	1.8	67
35	Formation of Regular Hole Pattern in Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 125-130.	1.1	65
36	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, 3003-3008.	4.0	61

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37	Strong and tough hydrogels crosslinked by multi-functional polymer colloids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1336-1350.	2.4	60
38	Super-hydrophobicity of silica nanoparticles modified with vinyl groups. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 338, 15-19.	2.3	59
39	Ordered droplet formation by thin polymer film dewetting on a stripe-patterned substrate. <i>Journal of Colloid and Interface Science</i> , 2004, 269, 158-163.	5.0	58
40	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.	1.8	56
41	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.	4.1	56
42	Conductive graphene oxide hydrogels reduced and bridged by γ -cysteine to support cell adhesion and growth. <i>Journal of Materials Chemistry B</i> , 2017, 5, 511-516.	2.9	52
43	Natural polysaccharides promote chondrocyte adhesion and proliferation on magnetic nanoparticle/PVA composite hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 146-154.	2.5	49
44	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.	1.8	47
45	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.	2.9	45
46	Shape memory/change effect in a double network nanocomposite tough hydrogel. <i>European Polymer Journal</i> , 2014, 58, 41-51.	2.6	44
47	Macroscopic assembly of oppositely charged polyelectrolyte hydrogels. <i>Journal of Materials Chemistry B</i> , 2018, 6, 257-264.	2.9	43
48	Multi-responsive nanocomposite hydrogels with high strength and toughness. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1733-1739.	2.9	42
49	Instability/collapse of polymeric materials and their structures in stimulus-induced shape/surface morphology switching. <i>Materials & Design</i> , 2014, 59, 176-192.	5.1	41
50	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.	2.4	41
51	Programmable and Reversible 3D-/4D-Shape-Morphing Hydrogels with Precisely Defined Ion Coordination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26476-26484.	4.0	41
52	Versatile controlled ion release for synthesis of recoverable hybrid hydrogels with high stretchability and notch-insensitivity. <i>Chemical Communications</i> , 2015, 51, 15534-15537.	2.2	40
53	Water-induced morphology evolution of block copolymer micellar thin films. <i>Polymer</i> , 2005, 46, 5377-5384.	1.8	37
54	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.	2.9	36

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55	Wear resistant UHMWPE with high toughness by high temperature melting and subsequent radiation cross-linking. <i>Polymer</i> , 2011, 52, 1155-1162.	1.8	35
56	Micro-contact printing of graphene oxide nanosheets for fabricating patterned polymer brushes. <i>Chemical Communications</i> , 2014, 50, 7103.	2.2	34
57	Thermo-responsive hydrogels with tunable transition temperature crosslinked by multifunctional graphene oxide nanosheets. <i>Composites Science and Technology</i> , 2017, 151, 139-146.	3.8	34
58	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.	2.7	32
59	Fabrication of hollow porous PLGA microspheres for controlled protein release and promotion of cell compatibility. <i>Chinese Chemical Letters</i> , 2013, 24, 710-714.	4.8	31
60	Effects of simulated oxidation on the <i>in vitro</i> wear and mechanical properties of irradiated and melted highly crosslinked UHMWPE. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 316-322.	1.6	31
61	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.	2.9	31
62	Super tough, ultra-stretchable, and fast recoverable double network hydrogels physically crosslinked by triple non-covalent interactions. <i>Polymer</i> , 2020, 192, 122319.	1.8	30
63	Reversibly strain-tunable elastomeric photonic crystals. <i>Chemical Physics Letters</i> , 2004, 390, 285-289.	1.2	29
64	Controllable promotion of chondrocyte adhesion and growth on PVA hydrogels by controlled release of TGF- β 1 from porous PLGA microspheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 51-57.	2.5	29
65	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.	2.9	28
66	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.	2.4	27
67	Versatile fabrication of arbitrarily shaped multi-membrane hydrogels suitable for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2013, 1, 485-492.	2.9	27
68	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.	1.6	26
69	Meta-analysis of sonication prosthetic fluid PCR for diagnosing periprosthetic joint infection. <i>PLoS ONE</i> , 2018, 13, e0196418.	1.1	26
70	Stabilization of highly crosslinked ultra high molecular weight polyethylene with natural polyphenols. <i>Polymer Degradation and Stability</i> , 2014, 105, 197-205.	2.7	22
71	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.	1.7	22
72	Synergistic pH and Temperature-Driven Actuation of Poly(NIPAM-co-DMAPMA)/Clay Nanocomposite Hydrogel Bilayers. <i>ACS Omega</i> , 2018, 3, 17914-17921.	1.6	21

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73	Molecular motions of different scales at thin polystyrene film surface by lateral force microscopy. <i>Journal of Chemical Physics</i> , 2005, 123, 064713.	1.2	19
74	Single cell migration dynamics mediated by geometric confinement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 72-78.	2.5	18
75	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.	2.0	16
76	Hole Nucleation and Growth Induced by Crystallization and Microphase Separation of Thin Semicrystalline Diblock Copolymer Films. <i>Macromolecules</i> , 2004, 37, 6918-6925.	2.2	16
77	Early Stage Interplay of Microphase Separation and Crystallization in Crystalline Coil Poly(l-lactic) Tj ETQq1 1 0.784314 rgBTj/Overlo	2.2	16
78	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.	0.9	16
79	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.	2.0	15
80	Natural Polyphenols Enhance Stability of Crosslinked UHMWPE for Joint Implants. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 760-766.	0.7	15
81	Colour-tunable quantum dots/poly(NIPAM-co-AAc) hybrid microgels based on electrostatic interactions. <i>RSC Advances</i> , 2016, 6, 98147-98152.	1.7	14
82	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.	2.9	14
83	Patterned self-adaptive polymer brushes by ϵ -grafting to ϵ -approach and microcontact printing. <i>Surface Science</i> , 2004, 572, 490-496.	0.8	13
84	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.	1.3	13
85	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.	2.7	13
86	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.	2.4	13
87	Dewetting behavior of polystyrene film filled with (C6H5C2H4NH3)2PbI4. <i>Journal of Chemical Physics</i> , 2008, 129, 054905.	1.2	12
88	3D Hierarchically Ordered Composite Block Copolymer Hollow Sphere Arrays by Solution Wetting. <i>Langmuir</i> , 2010, 26, 12336-12341.	1.6	12
89	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.	2.0	12
90	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, Volume 14, 1719-1724.	0.9	12

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91	Ordered macroporous films from self-assembly of two-armed polymer with a crown ether core. <i>Polymer</i> , 2004, 45, 7389-7394.	1.8	11
92	Aqueous Networks and Toroids of Amphiphilic Block Copolymer with Nonionic Surfactants. <i>ChemPhysChem</i> , 2009, 10, 1190-1194.	1.0	11
93	Controlled in situ synthesis of surface functionalized BaSO ₄ nanoparticles for improved bone cement reinforcement. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4043.	2.9	11
94	Hydration and Thermal Response Kinetics of a Cross-Linked Thermoresponsive Copolymer Film on a Hydrophobic PAN Substrate Coating Probed by <i>In Situ</i> Neutron Reflectivity. <i>Langmuir</i> , 2021, 37, 6819-6829.	1.6	11
95	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.	1.6	9
96	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.	1.8	8
97	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.	1.0	8
98	Tough responsive hydrogels and applications as smart devices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1279-1280.	2.4	8
99	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.	2.4	8
100	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.	1.8	8
101	Controlled Evaporative Self-Assembly of Poly(acrylic acid) in a Confined Geometry for Fabricating Patterned Polymer Brushes. <i>Langmuir</i> , 2014, 30, 4863-4867.	1.6	7
102	Vitamin E can be used to hinder scissioning in radiation crosslinked UHMWPE during high temperature melting. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	6
103	Title is missing!. <i>Journal of Materials Science Letters</i> , 2002, 21, 1453-1455.	0.5	5
104	Surface morphology evolution of poly(styrene-block-4-vinylpyridine) (PS-b-P4VP)(H+) and poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 T 2007, 48, 2425-2433.	1.8	5
105	Tough Responsive Polymer Hydrogels and Devices Crosslinked by Block Copolymer Micelles. <i>Macromolecular Symposia</i> , 2019, 385, 1800188.	0.4	3
106	Triblock Copolymer Micelle-Crosslinked Hydrogels. <i>Advances in Polymer Science</i> , 2020, , 211-241.	0.4	3
107	Ion-Excited Mechanically Active Self-Assembling Membranes for Rapid Wound Healing. <i>ACS Applied Bio Materials</i> , 2021, 4, 605-619.	2.3	3
108	Morphological transformations of nonequilibrium assemblies of amphiphilic diblock copolymer. <i>Colloid Journal</i> , 2014, 76, 774-781.	0.5	2

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109	Correction: Multi-responsive nanocomposite hydrogels with high strength and toughness. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6609-6609.	2.9	2
110	Natural Polyphenol-Stabilized Highly Cross-Linked UHMWPE for Joint Implants. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 93-114.	0.7	2
111	Highly Crosslinked UHMWPE for Joint Implants. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 21-68.	0.7	2
112	Shear-induced slippage of the self-assembly of crown ether-centered two-armed copolymers. <i>Applied Surface Science</i> , 2005, 252, 1132-1138.	3.1	1
113	Acid-induced morphological transition of block copolymer brush adsorbed on mica surface. <i>Polymer International</i> , 2005, 54, 1021-1026.	1.6	1
114	Photoluminescent nanoparticles of organic–inorganic hybrids prepared by phase transfer complexation at the organic–aqueous solution interface. <i>Nanotechnology</i> , 2007, 18, 025704.	1.3	1
115	Non-covalent Tough Hydrogels for Functional Actuators. <i>MRS Advances</i> , 2016, 1, 501-507.	0.5	1
116	Clinical Applications of UHMWPE in Joint Implants. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 1-20.	0.7	1
117	High-Temperature Melted, Cross-Linked, and Stabilized Ultrahigh Molecular Weight Polyethylene. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 115-150.	0.7	1
118	3D Bioprinting Microgels: Direct 3D Printed Biomimetic Scaffolds Based on Hydrogel Microparticles for Cell Spheroid Growth (<i>Adv. Funct. Mater.</i> 13/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070085.	7.8	1
119	Responsive Bilayered Hydrogel Actuators Assembled by Supramolecular Recognition. <i>MRS Advances</i> , 2018, 3, 1583-1588.	0.5	0