

Dry double-sided tape for adhesion of wet tissues and d

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Hydration and swelling of dry polymers for wet adhesion. Journal of the Mechanics and Physics of Solids, 2020, 137, 103863.	2.3	50
2	Transfer Printing of Electronic Functions on Arbitrary Complex Surfaces. ACS Nano, 2020, 14, 12-20.	7.3	47
3	Specialty Tough Hydrogels and Their Biomedical Applications. Advanced Healthcare Materials, 2020, 9, e1901396.	3.9	120
4	Omnipotent tissue adhesive. Science Bulletin, 2020, 65, 428-430.	4.3	1
5	Engineering Biomaterials and Approaches for Mechanical Stretching of Cells in Three Dimensions. Frontiers in Bioengineering and Biotechnology, 2020, 8, 589590.	2.0	21
6	Structured Interfaces for Improving the Tensile Strength and Toughness of Stiff/Highly Stretchable Polymer Hybrids. Advanced Materials Technologies, 2020, 5, 2000652.	3.0	4
7	Bioinspired Mechanically Interlocking Structures. Small Structures, 2020, 1, 2000045.	6.9	53
8	Mussel-Inspired Biocompatible PAADOPA/PAAm Hydrogel Adhesive for Amoxicillin Delivery. Industrial & Engineering Chemistry Research, 2020, 59, 13556-13563.	1.8	14
9	A Universal Strategy for Tough Adhesion of Wet Soft Material. Advanced Functional Materials, 2020, 30, 2003207.	7.8	113
10	Photocurable Hyperbranched Polymer Medical Glue for Water-Resistant Bonding. Biomacromolecules, 2020, 21, 5222-5232.	2.6	16
11	Supramolecular adhesive materials from small molecule self-assembly. SmartMat, 2020, 1, e1012.	6.4	79
12	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. Science Advances, 2020, 6, .	4.7	182
13	Hydrogel-Tissue Adhesion Using Blood Coagulation Induced by Silica Nanoparticle Coatings. ACS Applied Bio Materials, 2020, 3, 8808-8819.	2.3	10
14	Biomaterial surface modification for underwater adhesion. Smart Materials in Medicine, 2020, 1, 77-91.	3.7	39
15	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. Advanced Intelligent Systems, 2020, 2, 2000117.	3.3	17
16	Rational Design and Bulk Synthesis of Water-Containing Supramolecular Polymers. ACS Applied Materials & Interfaces, 2020, 12, 38700-38707.	4.0	13
17	Topological adhesion II. Stretchable adhesion. Extreme Mechanics Letters, 2020, 40, 100891.	2.0	25
18	Liquid Bandage Harvests Robust Adhesive, Hemostatic, and Antibacterial Performances as a First-Aid Tissue Adhesive. Advanced Functional Materials, 2020, 30, 2001820.	7.8	118

#	ARTICLE	IF	CITATIONS
19	Interfacial assembly of self-healing and mechanically stable hydrogels for degradation of organic dyes in water. <i>Communications Materials</i> , 2020, 1, .	2.9	10
20	A constitutive model for multi network elastomers pre-stretched by swelling. <i>Extreme Mechanics Letters</i> , 2020, 40, 100926.	2.0	21
21	Synthesis and Evaluation of Cytocompatible Alkyne-Containing Poly( <sup>l</sup> 2-amino ester)-Based Hydrogels Functionalized via Click Reaction. <i>ACS Macro Letters</i> , 2020, 9, 1391-1397.	2.3	13
22	Ctenophore-inspired hydrogels for efficient and repeatable underwater specific adhesion to biotic surfaces. <i>Materials Horizons</i> , 2020, 7, 2651-2661.	6.4	127
23	Ultrafast and Programmable Shape Memory Hydrogel of Gelatin Soaked in Tannic Acid Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46701-46709.	4.0	64
24	Uniting Drug and Delivery: Metal Oxide Hybrid Nanotherapeutics for Skin Wound Care. <i>Pharmaceutics</i> , 2020, 12, 780.	2.0	28
25	Functional Conductive Hydrogels for Bioelectronics. , 2020, 2, 1287-1301.		193
26	An Adhesive Hydrogel with "Load"Sharing"Effect as Tissue Bandages for Drug and Cell Delivery. <i>Advanced Materials</i> , 2020, 32, e2001628.	11.1	128
27	Continuous Heart Volume Monitoring by Fully Implantable Soft Strain Sensor. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000855.	3.9	27
28	A Janus Hydrogel Wet Adhesive for Internal Tissue Repair and Anti"Postoperative Adhesion. <i>Advanced Functional Materials</i> , 2020, 30, 2005689.	7.8	182
29	Adhesive Hydrogel Patch with Enhanced Strength and Adhesiveness to Skin for Transdermal Drug Delivery. <i>Advanced Functional Materials</i> , 2020, 30, 2004407.	7.8	142
30	Mechanics of Crater-Enabled Soft Dry Adhesives: A Review. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	7
31	Temperature and time-dependent self-assembly and gelation behavior of chitin in aqueous KOH/urea solution. <i>Giant</i> , 2020, 4, 100038.	2.5	15
32	Supramolecular Adhesion at Extremely Low Temperatures: A Combined Experimental and Theoretical Investigation. <i>Journal of the American Chemical Society</i> , 2020, 142, 21522-21529.	6.6	63
33	A Solvent"Exchange Strategy to Regulate Noncovalent Interactions for Strong and Antiswelling Hydrogels. <i>Advanced Materials</i> , 2020, 32, e2004579.	11.1	177
34	Probing the Molecular Interactions of Chitosan Films in Acidic Solutions with Different Salt Ions. <i>Coatings</i> , 2020, 10, 1052.	1.2	2
35	The new generation of soft and wearable electronics for health monitoring in varying environment: From normal to extreme conditions. <i>Materials Today</i> , 2020, 41, 219-242.	8.3	125
36	Bioinspired Self"healing Human"Machine Interactive Touch Pad with Pressure"Sensitive Adhesiveness on Targeted Substrates. <i>Advanced Materials</i> , 2020, 32, e2004290.	11.1	210

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37	Multipurpose Degradable Physical Adhesive Based on Poly( <i>ε</i> -caprolactide- <i>co</i> - <i>ε</i> -trimethylene Terephthalate) /Over	1.1	0
38	Synergy of noncovalent interlink and covalent toughener for tough hydrogel adhesion. <i>Extreme Mechanics Letters</i> , 2020, 39, 100797.	2.0	10
39	Preparation of a chitosan/carboxymethyl chitosan/AgNPs polyelectrolyte composite physical hydrogel with self-healing ability, antibacterial properties, and good biosafety simultaneously, and its application as a wound dressing. <i>Composites Part B: Engineering</i> , 2020, 197, 108139.	5.9	111
40	Switchable Friction Coefficient on Shape Memory Photonic Crystals. <i>MRS Advances</i> , 2020, 5, 757-763.	0.5	2
41	Emerging Implantable Energy Harvesters and Self-Powered Implantable Medical Electronics. <i>ACS Nano</i> , 2020, 14, 6436-6448.	7.3	223
42	Instant tough bioadhesive with triggerable benign detachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15497-15503.	3.3	210
43	Biocompatible In Situ Polymerization of Multipurpose Polyacrylamide-Based Hydrogels on Skin via Silver Ion Catalyzed Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31079-31089.	4.0	36
44	Topological adhesion. I. Rapid and strong topohesives. <i>Extreme Mechanics Letters</i> , 2020, 39, 100803.	2.0	43
45	Strength and toughness of adhesion of soft materials measured in lap shear. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 143, 103988.	2.3	44
46	Biofilm-inspired adhesive and antibacterial hydrogel with tough tissue integration performance for sealing hemostasis and wound healing. <i>Bioactive Materials</i> , 2020, 5, 768-778.	8.6	127
47	Performance of Polymeric Skin Adhesives during Perspiration. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1535-1542.	2.0	20
48	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	199
49	Flexible, Reconfigurable, and Self-Healing TPU/Vitrimer Polymer Blend with Copolymerization Triggered by Bond Exchange Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8740-8750.	4.0	47
50	Hydrogel machines. <i>Materials Today</i> , 2020, 36, 102-124.	8.3	625
51	Smart Sensing Systems Using Wearable Optoelectronics. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900144.	3.3	19
52	Dopamine-Modified Hyaluronic Acid Hydrogel Adhesives with Fast-Forming and High Tissue Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18225-18234.	4.0	175
53	Enhancement of the Adhesive Properties by Optimizing the Water Content in PNIPAM-Functionalized Complex Coacervates. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1722-1730.	2.0	23
54	Soft-Hard Composites for Bioelectric Interfaces. <i>Trends in Chemistry</i> , 2020, 2, 519-534.	4.4	21

#	ARTICLE	IF	CITATIONS
55	Use of solid-state NMR spectroscopy for investigating polysaccharide-based hydrogels: A review. Carbohydrate Polymers, 2020, 240, 116276.	5.1	43
56	Materials engineering, processing, and device application of hydrogel nanocomposites. Nanoscale, 2020, 12, 10456-10473.	2.8	52
57	Chemie der Chitosan-Aerogele: Lenkung der dreidimensionalen Poren für maßgeschneiderte Anwendungen. Angewandte Chemie, 2021, 133, 9913-9938.	1.6	0
58	Chemistry of Chitosan Aerogels: Three-Dimensional Pore Control for Tailored Applications. Angewandte Chemie - International Edition, 2021, 60, 9828-9851.	7.2	98
59	Material innovation and mechanics design for substrates and encapsulation of flexible electronics: a review. Materials Horizons, 2021, 8, 383-400.	6.4	91
60	Electrical bioadhesive interface for bioelectronics. Nature Materials, 2021, 20, 229-236.	13.3	361
61	3D-printed multifunctional materials enabled by artificial-intelligence-assisted fabrication technologies. Nature Reviews Materials, 2021, 6, 27-47.	23.3	140
62	Engineered Coatings via the Assembly of Amino-Quinone Networks. Angewandte Chemie - International Edition, 2021, 60, 2346-2354.	7.2	34
63	Magnetically Active Cardiac Patches as an Untethered, Non-Blood Contacting Ventricular Assist Device. Advanced Science, 2021, 8, 2000726.	5.6	10
64	Tough hydrogels with tunable soft and wet interfacial adhesion. Polymer Testing, 2021, 93, 106976.	2.3	21
65	4D Printable Tough and Thermoresponsive Hydrogels. ACS Applied Materials & Interfaces, 2021, 13, 12689-12697.	4.0	74
66	Mussel foot protein inspired tough tissue-selective underwater adhesive hydrogel. Materials Horizons, 2021, 8, 997-1007.	6.4	124
67	3D Printing of Strong and Tough Double Network Granular Hydrogels. Advanced Functional Materials, 2021, 31, 2005929.	7.8	85
68	Engineered Coatings via the Assembly of Amino-Quinone Networks. Angewandte Chemie, 2021, 133, 2376-2384.	1.6	5
69	High-Strength Hydrogel Attachment through Nanofibrous Reinforcement. Advanced Healthcare Materials, 2021, 10, e2001119.	3.9	3
70	Self-adhesive plasticized regenerated silk on poly(3-hydroxybutyrate-co-3-hydroxyvalerate) for bio-piezoelectric force sensor and microwave circuit design. Journal of Applied Polymer Science, 2021, 138, 49726.	1.3	13
71	Integrated microsystems for bridging multiscale elements. Advances in Chemical Engineering, 2021, 57, 157-196.	0.5	2
72	Accelerating ESD-induced gastric ulcer healing using a pH-responsive polyurethane/small intestinal submucosa hydrogel delivered by endoscopic catheter. International Journal of Energy Production and Management, 2021, 8, rbaa056.	1.9	16

#	ARTICLE	IF	CITATIONS
73	Biomimetic Design of Mitochondria-Targeted Hybrid Nanozymes as Superoxide Scavengers. <i>Advanced Materials</i> , 2021, 33, e2006570.	11.1	115
74	Tissue-adhesive and highly mechanical double-network hydrogel for cryopreservation and sustained release of anti-cancer drugs. <i>Smart Materials in Medicine</i> , 2021, 2, 229-236.	3.7	13
75	Shape retaining self-healing metal-coordinated hydrogels. <i>Nanoscale</i> , 2021, 13, 4073-4084.	2.8	45
76	Strong underwater adhesion of injectable hydrogels triggered by diffusion of small molecules. <i>Materials Horizons</i> , 2021, 8, 2199-2207.	6.4	53
77	Flexible polyfluorinated bis-diazirines as molecular adhesives. <i>Chemical Science</i> , 2021, 12, 4147-4153.	3.7	27
78	Injectable Self-Healing Natural Biopolymer-Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , 2021, 31, 2007457.	7.8	160
79	Hyperbranched polymer with dynamic thiol-aldehyde crosslinking and its application as a self-healable bioadhesive. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5818-5828.	2.9	8
80	A Multifunctional Origami Patch for Minimally Invasive Tissue Sealing. <i>Advanced Materials</i> , 2021, 33, e2007667.	11.1	77
81	High-Throughput Screening of Self-Healable Polysulfobetaine Hydrogels and their Applications in Flexible Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2100489.	7.8	26
82	From Diagnosis to Treatment: Recent Advances in Patient-Friendly Biosensors and Implantable Devices. <i>ACS Nano</i> , 2021, 15, 1960-2004.	7.3	171
83	Fatigue-resistant adhesion II: Swell tolerance. <i>Extreme Mechanics Letters</i> , 2021, 43, 101182.	2.0	8
84	An All-in-One Tannic Acid-Containing Hydrogel Adhesive with High Toughness, Notch Insensitivity, Self-Healability, Tailorable Topography, and Strong, Instant, and On-Demand Underwater Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9748-9761.	4.0	83
85	Integration of Soft Electronics and Biotissues. <i>Innovation(China)</i> , 2021, 2, 100074.	5.2	14
86	Switchable adhesion between hydrogels by wrinkling. <i>Extreme Mechanics Letters</i> , 2021, 43, 101193.	2.0	31
87	Improved tissue adhesion property of a hydrophobically modified Alaska pollock derived gelatin sheet by UV treatment. <i>International Journal of Biological Macromolecules</i> , 2021, 172, 580-588.	3.6	5
88	3D Printing Method for Tough Multifunctional Particle-Based Double-Network Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 13714-13723.	4.0	50
89	Enzyme Catalyzed Hydrogel as Versatile Bioadhesive for Tissue Wound Hemostasis, Bonding, and Continuous Repair. <i>Biomacromolecules</i> , 2021, 22, 1346-1356.	2.6	38
90	A Tapered Soft Robotic Oropharyngeal Swab for Throat Testing: A New Way to Collect Sputa Samples. <i>IEEE Robotics and Automation Magazine</i> , 2021, 28, 90-100.	2.2	17

#	ARTICLE	IF	CITATIONS
91	A Spider- <i>Silk</i> -Inspired Wet Adhesive with Supercold Tolerance. <i>Advanced Materials</i> , 2021, 33, e2007301.	11.1	59
92	Recent advances of hydrogel network models for studies on mechanical behaviors. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 367-386.	1.5	56
93	A multiscale polymerization framework towards network structure and fracture of double-network hydrogels. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	24
95	A plant-inspired long-lasting adhesive bilayer nanocomposite hydrogel based on redox-active Ag/Tannic acid-Cellulose nanofibers. <i>Carbohydrate Polymers</i> , 2021, 255, 117508.	5.1	77
96	Highly Stretchable, Adhesive, Biocompatible, and Antibacterial Hydrogel Dressings for Wound Healing. <i>Advanced Science</i> , 2021, 8, 2003627.	5.6	291
97	Degradable and Removable Tough Adhesive Hydrogels. <i>Advanced Materials</i> , 2021, 33, e2008553.	11.1	99
98	A Morphable Ionic Electrode Based on Thermogel for Non-Invasive Hairy Plant Electrophysiology. <i>Advanced Materials</i> , 2021, 33, e2007848.	11.1	51
99	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , 2021, 121, 4309-4372.	23.0	472
100	Mussel-inspired hydrogels as tissue adhesives for hemostasis with fast-forming and self-healing properties. <i>European Polymer Journal</i> , 2021, 148, 110361.	2.6	14
101	Simple Solvent-Free Strategy for Synthesizing Covalent Adaptable Networks from Commodity Vinyl Monomers. <i>Macromolecules</i> , 2021, 54, 4081-4088.	2.2	14
102	Engineering Hydrogel Adhesion for Biomedical Applications via Chemical Design of the Junction. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4048-4076.	2.6	89
103	Fatigue Damage-Resistant Physical Hydrogel Adhesion. <i>Frontiers in Robotics and AI</i> , 2021, 8, 666343.	2.0	5
104	Tough Adhesion of Freezing- and Drying-Tolerant Transparent Nanocomposite Organohydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21822-21830.	4.0	25
105	An Intrinsically Adhesive Family of Injectable and Photo-Curable Hydrogels with Functional Physicochemical Performance for Regenerative Medicine. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000660.	2.0	25
106	Bioinspired tough gel sheath for robust and versatile surface functionalization. <i>Science Advances</i> , 2021, 7, .	4.7	44
107	Preparation of a photocurable hydrogel with adjustable mechanical properties for 3D printing. <i>Rapid Prototyping Journal</i> , 2021, 27, 797-807.	1.6	3
108	Swell induced stress in a hydrogel coating. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 797-802.	1.5	4
109	Recent advances in wet adhesives: Adhesion mechanism, design principle and applications. <i>Progress in Polymer Science</i> , 2021, 116, 101388.	11.8	251

#	ARTICLE	IF	CITATIONS
110	Recent Advances in Printing Technologies of Nanomaterials for Implantable Wireless Systems in Health Monitoring and Diagnosis. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100158.	3.9	27
111	Carbon Nanotubes/Regenerated Silk Composite as a Three-Dimensional Printable Bio-Adhesive Ink with Self-Powering Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21007-21017.	4.0	17
112	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , 2021, 7, .	4.7	144
113	Fabrication of a dual-layer cell-laden tubular scaffold for nerve regeneration and bile duct reconstruction. <i>Biofabrication</i> , 2021, 13, 035038.	3.7	12
114	Intelligent Soft Surgical Robots for Next-Generation Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100011.	3.3	55
115	Recent progress in polymer hydrogel bioadhesives. <i>Journal of Polymer Science</i> , 2021, 59, 1312-1337.	2.0	77
116	Flexible Polydopamine Bioelectronics. <i>Advanced Functional Materials</i> , 2021, 31, 2103391.	7.8	102
117	Environmentally Compatible Wearable Electronics Based on Ionically Conductive Organohydrogels for Health Monitoring with Thermal Compatibility, Anti-Dehydration, and Underwater Adhesion. <i>Small</i> , 2021, 17, e2101151.	5.2	70
118	Polyacrylamide hydrogels. III. Lap shear and peel. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 150, 104348.	2.3	19
119	Enhancing Biopolymer Hydrogel Functionality through Interpenetrating Networks. <i>Trends in Biotechnology</i> , 2021, 39, 519-538.	4.9	138
120	Covalently Crosslinked Hydrogels via Step-Growth Reactions: Crosslinking Chemistries, Polymers, and Clinical Impact. <i>Advanced Materials</i> , 2021, 33, e2006362.	11.1	95
121	Advanced Materials and Assembly Strategies for Wearable Biosensors: A Review. , 0, , .		2
122	Biomimetic clotrimazole-loaded PLGA films with enhanced adhesiveness for controlled drug release. <i>International Journal of Pharmaceutics</i> , 2021, 601, 120578.	2.6	7
123	Multifaceted Design and Emerging Applications of Tissue Adhesives. <i>Advanced Materials</i> , 2021, 33, e2007663.	11.1	117
124	A New Type of Biological Glue Derived from Fish Swim Bladder: Outstanding Adhesion and Surgical Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2100303.	3.0	6
125	Strong fatigue-resistant nanofibrous hydrogels inspired by lobster underbelly. <i>Matter</i> , 2021, 4, 1919-1934.	5.0	56
126	Tunable Cross-Linking and Adhesion of Gelatin Hydrogels via Bioorthogonal Click Chemistry. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4330-4346.	2.6	25
127	Ultrafast self-gelling powder mediates robust wet adhesion to promote healing of gastrointestinal perforations. <i>Science Advances</i> , 2021, 7, .	4.7	118

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128	Photoinitiator-grafted polymer chains for integrating hydrogels with various materials. <i>Cell Reports Physical Science</i> , 2021, 2, 100463.	2.8	14
129	A bio-adhesive ion-conducting organohydrogel as a high-performance non-invasive interface for bioelectronics. <i>Chemical Engineering Journal</i> , 2022, 427, 130886.	6.6	29
130	Diving beetle-like miniaturized plungers with reversible, rapid biofluid capturing for machine learning-based care of skin disease. <i>Science Advances</i> , 2021, 7, .	4.7	36
131	Editing the Shape Morphing of Monocomponent Natural Polysaccharide Hydrogel Films. <i>Research</i> , 2021, 2021, 9786128.	2.8	23
132	Enhancing Tissue Adhesion and Osteoblastic Differentiation of MC3T3-E1 Cells on Poly(aryl ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Bioscience, 2021, 21, e2100078.	2.1	9
133	A Strong Dual-Component Bioadhesive Based on Solventless Thiol-isocyanate Click Chemistry. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3389-3398.	2.6	2
134	Fabrication of Conductive, Adhesive, and Stretchable Agarose-Based Hydrogels for a Wearable Biosensor. <i>ACS Applied Bio Materials</i> , 2021, 4, 6148-6156.	2.3	11
135	Tissue adhesion with tough hydrogels: Experiments and modeling. <i>Mechanics of Materials</i> , 2021, 157, 103800.	1.7	16
136	Imparting ultralow lubricity to double-network hydrogels by surface-initiated controlled radical polymerization under ambient conditions. <i>Biotribology</i> , 2021, 26, 100161.	0.9	11
137	Mechanical strength and hydrostatic testing of VIVO adhesive in sutureless microsurgical anastomoses: an ex vivo study. <i>Scientific Reports</i> , 2021, 11, 13598.	1.6	9
138	Mussel-inspired adhesive hydrogels based on biomass-derived xylan and tannic acid cross-linked with acrylic acid with antioxidant and antibacterial properties. <i>Journal of Materials Science</i> , 2021, 56, 14729-14740.	1.7	24
139	Light-Activated Adhesion and Debonding of Underwater Pressure-Sensitive Adhesives. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29048-29057.	4.0	16
141	Renatured hydrogel painting. <i>Science Advances</i> , 2021, 7, .	4.7	41
142	Adhesive aero-hydrogel hybrid conductor assembled from silver nanowire architectures. <i>Science China Materials</i> , 2021, 64, 2868-2876.	3.5	12
143	Bioinspired pagoda-like microneedle patches with strong fixation and hemostasis capabilities. <i>Chemical Engineering Journal</i> , 2021, 414, 128905.	6.6	59
144	Hydrogel mesh composite for wound closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	62
145	Lap shear of a soft and elastic adhesive. <i>Mechanics of Materials</i> , 2021, 158, 103845.	1.7	9
146	Self-reconfigurable high-weight-per-volume-gelatin films for all-solution-processed on-skin electronics with ultra-conformal contact. <i>Biosensors and Bioelectronics</i> , 2021, 184, 113231.	5.3	16

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147	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. <i>Nature Materials</i> , 2021, 20, 1559-1570.	13.3	114
148	Ionotronic Tough Adhesives with Intrinsic Multifunctionality. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37849-37861.	4.0	16
149	Snake extractâ€laden hemostatic bioadhesive gel cross-linked by visible light. <i>Science Advances</i> , 2021, 7, .	4.7	96
150	Polymer Network Editing of Elastomers for Robust Underwater Adhesion and Tough Bonding to Diverse Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36527-36537.	4.0	11
151	Folic Acid-Based Coacervate Leading to a Double-Sided Tape for Adhesion of Diverse Wet and Dry Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34843-34850.	4.0	16
152	Multifunctional Biosensors Made with Self-Healable Silk Fibroin Imitating Skin. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33371-33382.	4.0	27
153	Adhesive Tissue Engineered Scaffolds: Mechanisms and Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 683079.	2.0	10
154	Superâ€strong and Superâ€stiff Chitosan Filaments with Highly Ordered Hierarchical Structure. <i>Advanced Functional Materials</i> , 2021, 31, 2104368.	7.8	39
155	Antifracture, Antibacterial, and Anti-inflammatory Hydrogels Consisting of Silver-Embedded Curdlan Nanofibrils. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36747-36756.	4.0	26
156	An Antiâ€freezing, Ambientâ€stable and Highly Stretchable Ionic Skin with Strong Surface Adhesion for Wearable Sensing and Soft Robotics. <i>Advanced Functional Materials</i> , 2021, 31, 2104665.	7.8	140
157	Triggerâ€detachable Hydrogel Adhesives for Bioelectronic Interfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2106446.	7.8	63
158	Hyaluronic Acid-based Biomimetic Hydrogels for Tissue Engineering and Medical Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 503-516.	1.4	20
159	Materials Perspectives for Self-Powered Cardiac Implantable Electronic Devices toward Clinical Translation. <i>Accounts of Materials Research</i> , 2021, 2, 739-750.	5.9	16
160	Rapid and coagulation-independent haemostatic sealing by a paste inspired by barnacle glue. <i>Nature Biomedical Engineering</i> , 2021, 5, 1131-1142.	11.6	146
161	Poly( $\gamma$ -glutamic acid) Nanocoating To Enhance the Viability of <i>Pseudomonas stutzeri</i> NRCB010 through Cell Surface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 39957-39966.	4.0	5
162	Wearable Biofuel Cells: Advances from Fabrication to Application. <i>Advanced Functional Materials</i> , 2021, 31, 2103976.	7.8	38
163	Photocrosslinking silver nanoparticlesâ€aloe veraâ€silk fibroin composite hydrogel for treatment of full-thickness cutaneous wounds. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab048.	1.9	23
164	Wetting characteristics of polymer adhesives with different chain bending stiffness. <i>High Performance Polymers</i> , 2021, 33, 1220-1229.	0.8	1

#	ARTICLE	IF	CITATIONS
165	Printable Smart Materials and Devices: Strategies and Applications. <i>Chemical Reviews</i> , 2022, 122, 5144-5164.	23.0	121
166	Bio-inspired hydrogel-based bandage with robust adhesive and antibacterial abilities for skin closure. <i>Science China Materials</i> , 2022, 65, 246-254.	3.5	13
167	Flaw-sensitivity of a tough hydrogel under monotonic and cyclic loads. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 153, 104483.	2.3	20
168	A mobile magnetic pad with fast light-switchable adhesion capabilities. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 055005.	1.5	11
169	Natural Polysaccharides as Multifunctional Components for One-Step 3D Printing Tough Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100433.	1.7	4
170	Reversible Dendritic-Crystal-Reinforced Polymer Gel for Bioinspired Adaptable Adhesive. <i>Advanced Materials</i> , 2021, 33, e2103174.	11.1	35
171	Mussel-inspired blue-light-activated cellulose-based adhesive hydrogel with fast gelation, rapid haemostasis and antibacterial property for wound healing. <i>Chemical Engineering Journal</i> , 2021, 417, 129329.	6.6	157
172	Biomimetic Glycopolyptide Hydrogels with Tunable Adhesion and Microporous Structure for Fast Hemostasis and Highly Efficient Wound Healing. <i>Advanced Functional Materials</i> , 2021, 31, 2105628.	7.8	123
173	Skin-like hydrogel devices for wearable sensing, soft robotics and beyond. <i>IScience</i> , 2021, 24, 103174.	1.9	103
174	Bioinspired Underwater Adhesives. <i>Advanced Materials</i> , 2021, 33, e2102983.	11.1	178
175	Mechanically active adhesive and immune regulative dressings for wound closure. <i>Matter</i> , 2021, 4, 2985-3000.	5.0	50
176	A Bioinspired Stretchable Sensory-Neuromorphic System. <i>Advanced Materials</i> , 2021, 33, e2104690.	11.1	67
177	Applications of Bioadhesives: A Mini Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 716035.	2.0	33
178	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration. <i>Advanced Materials</i> , 2021, 33, e2106175.	11.1	60
179	Stretchable, Bio-Compatible, Antioxidant and Self-Powering Adhesives from Soluble Silk Fibroin and Vegetal Polyphenols Exfoliated Graphite. <i>Nanomaterials</i> , 2021, 11, 2352.	1.9	8
180	Switchable Photonic Bio-Adhesive Materials. <i>Advanced Materials</i> , 2021, 33, e2103674.	11.1	33
181	Air Bubble Bridge-Based Bioinspired Underwater Adhesion. <i>Small</i> , 2021, 17, e2103423.	5.2	15
182	Physiologically-Regulated Adhesion of Hydrogels for Wound Dressing. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101131.	1.9	20

#	ARTICLE	IF	CITATIONS
183	Bifunctional magnetic covalent organic framework for simultaneous enrichment of phosphopeptides and glycopeptides. <i>Analytica Chimica Acta</i> , 2021, 1177, 338761.	2.6	18
184	Transforming natural silk nonwovens into robust bioadhesives for in vivo tissue amendment. <i>Journal of Cleaner Production</i> , 2021, 314, 127996.	4.6	11
185	An injectable anti-microbial and adhesive hydrogel for the effective noncompressible visceral hemostasis and wound repair. <i>Materials Science and Engineering C</i> , 2021, 129, 112422.	3.8	52
186	A review: Gelatine as a bioadhesive material for medical and pharmaceutical applications. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121037.	2.6	50
187	Biomimetic nanocomposite hydrogel networks for robust wet adhesion to tissues. <i>Composites Part B: Engineering</i> , 2021, 222, 109071.	5.9	29
188	Fracture and fatigue of ideal polymer networks. <i>Extreme Mechanics Letters</i> , 2021, 48, 101399.	2.0	24
189	Injectable Mussel-Inspired highly adhesive hydrogel with exosomes for endogenous cell recruitment and cartilage defect regeneration. <i>Biomaterials</i> , 2021, 278, 121169.	5.7	129
190	Rapid self-healing and self-adhesive chitosan-based hydrogels by host-guest interaction and dynamic covalent bond as flexible sensor. <i>Carbohydrate Polymers</i> , 2021, 273, 118533.	5.1	124
191	An ultrasmall infinite coordination polymer nanomedicine-composited biomimetic hydrogel for programmed dressing-chemo-low level laser combination therapy of burn wounds. <i>Chemical Engineering Journal</i> , 2021, 426, 130610.	6.6	49
192	Biomaterials from the sea: Future building blocks for biomedical applications. <i>Bioactive Materials</i> , 2021, 6, 4255-4285.	8.6	86
193	A hydra tentacle-inspired hydrogel with underwater ultra-stretchability for adhering adipose surfaces. <i>Chemical Engineering Journal</i> , 2022, 428, 131049.	6.6	24
194	A highly stretchable and anti-freezing silk-based conductive hydrogel for application as a self-adhesive and transparent ionotronic skin. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	38
195	Mussel-inspired ultra-stretchable, universally sticky, and highly conductive nanocomposite hydrogels. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2221-2232.	2.9	30
196	Polymeric Tissue Adhesives. <i>Chemical Reviews</i> , 2021, 121, 11336-11384.	23.0	306
197	Stretchable Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene microsupercapacitors with high areal capacitance and quasi-solid-state multivalent neutral electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4664-4672.	5.2	15
198	Super-stretchable and extreme temperature-tolerant supramolecular-polymer double-network eutectogels with ultrafast <i>in situ</i> adhesion and flexible electrochromic behaviour. <i>Materials Horizons</i> , 2021, 8, 2520-2532.	6.4	60
199	Robust Underwater Adhesives Based on Dynamic Hydrophilic and Hydrophobic Moieties to Diverse Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3435-3444.	4.0	24
200	Improvement in the photoelectrochemical water-splitting performance using GaN nanowires with bundle structures. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12802-12810.	2.7	8

#	ARTICLE	IF	CITATIONS
201	Barnacle Cement Proteins-Inspired Tough Hydrogels with Robust, Long-Lasting, and Repeatable Underwater Adhesion. <i>Advanced Functional Materials</i> , 2021, 31, 2009334.	7.8	148
202	EML webinar overview: Extreme mechanics of soft materials for merging human-machine intelligence. <i>Extreme Mechanics Letters</i> , 2020, 39, 100784.	2.0	9
203	Tough Underwater Super-tape Composed of Semi-interpenetrating Polymer Networks with a Water-Repelling Liquid Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1535-1544.	4.0	33
204	How the Viscoelastic and Sweat-Absorbing Properties of Skin Adhesives Affect Their Performance during Perspiration. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5533-5541.	2.0	9
206	Stimuli-responsive temporary adhesives: enabling debonding on demand through strategic molecular design. <i>Chemical Science</i> , 2021, 12, 15183-15205.	3.7	22
207	An Insight into Skeletal Networks Analysis for Smart Hydrogels. <i>Advanced Functional Materials</i> , 2022, 32, 2108489.	7.8	10
208	Promoting Oral Mucosal Wound Healing with a Hydrogel Adhesive Based on a Phototriggered S-Nitrosylation Coupling Reaction. <i>Advanced Materials</i> , 2021, 33, e2105667.	11.1	86
209	Magnetic Arthropod Millirobots Fabricated by 3D-Printed Hydrogels. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100139.	3.3	45
210	Polyphosphazene and Non-Catechol-Based Antibacterial Injectable Hydrogel for Adhesion of Wet Tissues as Wound Dressing. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101421.	3.9	45
211	Printable Tough Adhesive for Instant Fatigue-Resistant Bonding of Diverse Surfaces. <i>Advanced Functional Materials</i> , 2022, 32, 2107732.	7.8	11
212	A photocurable bioelectronics-tissue interface. <i>Nature Materials</i> , 2021, 20, 1460-1461.	13.3	1
213	Attractive forces slow contact formation between deformable bodies underwater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	8
214	Wound-contractible hydrogel for skin regeneration, a new insight from mechanobiology. <i>Matter</i> , 2021, 4, 3091-3094.	5.0	3
215	Effects of network structures on the fracture of hydrogel. <i>Extreme Mechanics Letters</i> , 2021, 49, 101495.	2.0	15
216	Biocompatible therapeutic albumin/genipin biogel for postoperative wound adhesion and residual tumor ablation. <i>Biomaterials</i> , 2021, 279, 121179.	5.7	16
217	Bound to get to the heart of a sticky problem. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	0
218	Functional Hydrogel Interface Materials for Advanced Bioelectronic Devices. <i>Accounts of Materials Research</i> , 2021, 2, 1010-1023.	5.9	39
219	A Tissue-Like Soft All-Hydrogel Battery. <i>Advanced Materials</i> , 2022, 34, e2105120.	11.1	65

#	ARTICLE	IF	CITATIONS
220	A bio-inspired multifunctional soy protein-based material: From strong underwater adhesion to 3D printing. <i>Chemical Engineering Journal</i> , 2022, 430, 133017.	6.6	26
221	Adhesion strategies for heterogeneous soft materials – A review. <i>Engineering Research Express</i> , 0, , .	0.8	1
222	On-Site Supramolecular Adhesion to Wet and Soft Surfaces via Solvent Exchange. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53083-53090.	4.0	27
223	Biomimetic Joint Paint for Efficient Cartilage Repair by Simultaneously Regulating Cartilage Degeneration and Regeneration in Pigs. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54801-54816.	4.0	17
224	Anisotropic, strong, self-adhesive and strain-sensitive hydrogels enabled by magnetically-oriented cellulose/polydopamine nanocomposites. <i>Carbohydrate Polymers</i> , 2022, 276, 118783.	5.1	19
225	Microneedle arrays integrated with living organisms for smart biomedical applications. <i>Theranostics</i> , 2021, 11, 10012-10029.	4.6	18
226	Imparting conformational memory for material adhesion. <i>Materials Horizons</i> , 2022, 9, 675-687.	6.4	1
227	Dissecting Biological and Synthetic Soft-Hard Interfaces for Tissue-Like Systems. <i>Chemical Reviews</i> , 2022, 122, 5233-5276.	23.0	32
228	Deep Learning Approach to Mechanical Property Prediction of Single-Network Hydrogel. <i>Mathematics</i> , 2021, 9, 2804.	1.1	12
229	Cohesion mechanisms for bioadhesives. <i>Bioactive Materials</i> , 2022, 13, 105-118.	8.6	43
230	Instant and Strong Underwater Adhesion by Coupling Hygroscopicity and In Situ Photocuring. <i>Chemistry of Materials</i> , 2021, 33, 8822-8830.	3.2	21
231	Reversible switching of polymeric gel structure and property by solvent exchange. <i>Science China Materials</i> , 2022, 65, 547-552.	3.5	9
232	Degradable Hydrogel Adhesives with Enhanced Tissue Adhesion, Superior Self-Healing, Cytocompatibility, and Antibacterial Property. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101504.	3.9	39
233	Programmable Building of Radially Gradient Nanofibrous Patches Enables Deployment, Bursting Bearing Capability, and Stem Cell Recruitment. <i>Advanced Functional Materials</i> , 2022, 32, 2109833.	7.8	15
234	High-Adhesive Flexible Electrodes and Their Manufacture: A Review. <i>Micromachines</i> , 2021, 12, 1505.	1.4	10
235	Electrostatic-Mechanical Synergistic In Situ Multiscale Tissue Adhesion for Sustainable Residue-Free Bioelectronics Interfaces. <i>Advanced Materials</i> , 2022, 34, e2105338.	11.1	19
236	Nonwetting Nanostructured Hemostatic Material for Bleeding Control with Minimal Adhesion. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101412.	1.9	9
237	Recent Advances on Designs and Applications of Hydrogel Adhesives. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101038.	1.9	27

#	ARTICLE	IF	CITATIONS
238	Injectable Double-Crosslinked Adhesive Hydrogels with High Mechanical Resilience and Effective Energy Dissipation for Joint Wound Treatment. <i>Advanced Functional Materials</i> , 2022, 32, 2109687.	7.8	81
239	Design principles for creating synthetic underwater adhesives. <i>Chemical Society Reviews</i> , 2021, 50, 13321-13345.	18.7	57
240	An On-Site Applicable Solvent-Free Flat Anti-Adhesion Coating Via Ambient Self-Crosslinking Chemistry. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
241	Colloidal Supraballs of Mesoporous Silica Nanoparticles as Bioresorbable Adhesives for Hydrogels. <i>Chemistry of Materials</i> , 2022, 34, 584-593.	3.2	9
242	A novel bioactive polyurethane with controlled degradation and L-Arg release used as strong adhesive tissue patch for hemostasis and promoting wound healing. <i>Bioactive Materials</i> , 2022, 17, 471-487.	8.6	30
243	Peritoneum-Inspired Janus Porous Hydrogel with Anti-Deformation, Anti-Adhesion, and Pro-Healing Characteristics for Abdominal Wall Defect Treatment. <i>Advanced Materials</i> , 2022, 34, e2108992.	11.1	58
244	Stress Dissipation Encoded Silk Fibroin Electrode for the Athlete-Beneficial Silk Bioelectronics. <i>Advanced Science</i> , 2022, 9, e2105420.	5.6	11
245	Challenges and emerging opportunities in transistor-based ultrathin electronics: design and fabrication for healthcare applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2450-2474.	2.7	6
246	Multifunctional hydrogel as wound dressing for intelligent wound monitoring. <i>Chemical Engineering Journal</i> , 2022, 433, 134625.	6.6	84
247	Fabrication of adhesive hydrogels based on poly (acrylic acid) and modified hyaluronic acid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105044.	1.5	15
248	A Shape-Programmable Hierarchical Fibrous Membrane Composite System to Promote Wound Healing in Diabetic Patients. <i>Small</i> , 2022, 18, e2107544.	5.2	27
249	Bio-based and bio-inspired adhesives from animals and plants for biomedical applications. <i>Materials Today Bio</i> , 2022, 13, 100203.	2.6	30
250	Bioinspired super-strong aqueous synthetic tissue adhesives. <i>Matter</i> , 2022, 5, 933-956.	5.0	14
251	Electrostatic Interaction-Based High Tissue Adhesive, Stretchable Microelectrode Arrays for the Electrophysiological Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4852-4861.	4.0	20
252	Mucosa-Like Conformal Hydrogel Coating for Aqueous Lubrication. <i>Advanced Materials</i> , 2022, 34, e2108848.	11.1	37
253	Mechanochemiluminescent Hydrogels for Real-Time Visualization of Chemical Bond Scission. <i>Synlett</i> , 2022, 33, 879-884.	1.0	6
254	Dual-Channel Flexible Strain Sensors Based on Mechanofluorescent and Conductive Hydrogel Laminates. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	32
255	A hyperbranched polymer elastomer-based pressure sensitive adhesive. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1257-1269.	5.2	25

#	ARTICLE	IF	CITATIONS
256	A stretchable and self-healing ionic artificial muscle modified by conductive substances. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	6
257	A Tissue Adhesion-Controllable and Biocompatible Small-Scale Hydrogel Adhesive Robot. <i>Advanced Materials</i> , 2022, 34, e2109325.	11.1	70
258	An antibacterial biomimetic adhesive with strong adhesion in both dry and underwater situations. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1063-1076.	2.9	7
259	Multifunctional Injectable Hydrogel for <i>In Vivo</i> Diagnostic and Therapeutic Applications. <i>ACS Nano</i> , 2022, 16, 554-567.	7.3	49
260	Recent Advances in Bioinspired Hydrogels with Environment-Responsive Characteristics for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2022, 22, e2100474.	2.1	8
261	Hydrogel adhesive formed <i>via</i> multiple chemical interactions: from persistent wet adhesion to rapid hemostasis. <i>Biomaterials Science</i> , 2022, 10, 1486-1497.	2.6	12
262	Modulus adaptive lubricating prototype inspired by instant muscle hardening mechanism of catfish skin. <i>Nature Communications</i> , 2022, 13, 377.	5.8	47
264	Rapidly Self-Deactivating and Injectable Succinyl Ester-Based Bioadhesives for Postoperative Antiadhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 373-382.	4.0	11
265	Efficient, biosafe and tissue adhesive hemostatic cotton gauze with controlled balance of hydrophilicity and hydrophobicity. <i>Nature Communications</i> , 2022, 13, 552.	5.8	55
266	An off-the-shelf bioadhesive patch for sutureless repair of gastrointestinal defects. <i>Science Translational Medicine</i> , 2022, 14, eabh2857.	5.8	67
267	Hydrogel-based patient-friendly photodynamic therapy of oral potentially malignant disorders. <i>Biomaterials</i> , 2022, 281, 121377.	5.7	21
268	Novel multifunctional dual-dynamic-bonds crosslinked hydrogels for multi-strategy therapy of MRSA-infected wounds. <i>Applied Materials Today</i> , 2022, 26, 101362.	2.3	18
269	Soft armour-like layer-protected hydrogels for wet tissue adhesion and biological imaging. <i>Chemical Engineering Journal</i> , 2022, 434, 134418.	6.6	24
270	Self-Assembling Peptide-Based Hydrogels for Wound Tissue Repair. <i>Advanced Science</i> , 2022, 9, e2104165.	5.6	99
271	Shaping soft materials via digital light processing-based 3D printing: A review. <i>Forces in Mechanics</i> , 2022, 6, 100074.	1.3	29
272	Recent and Future Strategies of Mechanotherapy for Tissue Regenerative Rehabilitation. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 4639-4642.	2.6	9
273	Engineering a highly elastic bioadhesive for sealing soft and dynamic tissues. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1511-1522.	1.6	10
274	Adhesive, Antibacterial, Conductive, Anti-UV, Self-Healing, and Tough Collagen-Based Hydrogels from a Pyrogallol-Ag Self-Catalysis System. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8728-8742.	4.0	28

#	ARTICLE	IF	CITATIONS
275	Anti-swelling, Robust, and Adhesive Extracellular Matrix-mimicking Hydrogel Used as Intraoral Dressing. <i>Advanced Materials</i> , 2022, 34, e2200115.	11.1	61
276	Tough, Repeatedly Adhesive, Cyclic Compression-Stable, and Conductive Dual-Network Hydrogel Sensors for Human Health Monitoring. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 18373-18383.	1.8	87
277	Nanoparticle-assembled bioadhesive coacervate coating with prolonged gastrointestinal retention for inflammatory bowel disease therapy. <i>Nature Communications</i> , 2021, 12, 7162.	5.8	70
278	Hydrogel tapes for fault-tolerant strong wet adhesion. <i>Nature Communications</i> , 2021, 12, 7156.	5.8	122
279	Mechanical reinforcement of granular hydrogels. <i>Chemical Science</i> , 2022, 13, 3082-3093.	3.7	27
280	Leveraging the advancements in functional biomaterials and scaffold fabrication technologies for chronic wound healing applications. <i>Materials Horizons</i> , 2022, 9, 1850-1865.	6.4	30
281	Low-molecular-weight supramolecular adhesives based on non-covalent self-assembly of a small molecular gelator. <i>Materials Horizons</i> , 2022, 9, 1700-1707.	6.4	22
282	An Instant, Repeatable and Universal Supramolecular Adhesive Based on Natural Small Molecules for Dry/Wet Environments. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
283	Highly stretchable and sensitive strain sensors with ginkgo-like sandwich architectures. <i>Nanoscale Advances</i> , 2022, 4, 1681-1693.	2.2	6
284	Ascidian-inspired aciduric hydrogels with high stretchability and adhesiveness promote gastric hemostasis and wound healing. <i>Biomaterials Science</i> , 2022, 10, 2417-2427.	2.6	15
285	Arrowhead Composite Microneedle Patches with Anisotropic Surface Adhesion for Preventing Intrauterine Adhesions. <i>Advanced Science</i> , 2022, 9, e2104883.	5.6	27
286	Programming fracture patterns of thin films. <i>Physical Review E</i> , 2022, 105, 025002.	0.8	2
287	Highly Conducting and Stretchable Double-network Hydrogel for Soft Bioelectronics. <i>Advanced Materials</i> , 2022, 34, e2200261.	11.1	145
288	Recent Progress in Bio-integrated Intelligent Sensing System. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	12
289	A Structural Gel Composite Enabled Robust Underwater Mechanosensing Strategy with High Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	66
290	Strong Dynamic Interfacial Adhesion by Polymeric Ionic Liquids under Extreme Conditions. <i>ACS Nano</i> , 2022, 16, 5303-5315.	7.3	19
291	Artificial Kidney Capsule Packed with Mesenchymal Stem Cell-Laden Hydrogel for the Treatment of Rhabdomyolysis-Induced Acute Kidney Injury. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1726-1734.	2.6	9
292	Topoarchitected polymer networks expand the space of material properties. <i>Nature Communications</i> , 2022, 13, 1622.	5.8	46

#	ARTICLE	IF	CITATIONS
294	A silk fibroin based bioadhesive with synergistic photothermal-reinforced antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 608-617.	3.6	13
295	Instant Strong and Responsive Underwater Adhesion Manifested by Bioinspired Supramolecular Polymeric Adhesives. <i>Macromolecules</i> , 2022, 55, 2003-2013.	2.2	30
296	Mistletoe viscain: a hygro- and mechano-responsive cellulose-based adhesive for diverse material applications. , 2022, 1, .		5
297	Polyglutamic Acidâ€Based Elastic and Tough Adhesive Patch Promotes Tissue Regeneration through In Situ Macrophage Modulation. <i>Advanced Science</i> , 2022, 9, e2106115.	5.6	14
298	A Biodegradable Multifunctional Film as a Tissue Adhesive for Instant Hemostasis and Wound Closure. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200031.	2.0	1
299	An instant, repeatable and universal supramolecular adhesive based on natural small molecules for dry/wet environments. <i>Chemical Engineering Journal</i> , 2022, 442, 136206.	6.6	25
300	Hydrogel Bioadhesives with Extreme Acidâ€Tolerance for Gastric Perforation Repairing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	41
301	Injectable Self-Healing First-Aid Tissue Adhesives with Outstanding Hemostatic and Antibacterial Performances for Trauma Emergency Care. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16006-16017.	4.0	30
302	Nanofiller dispersing, drawn orientation, and mechanical properties of polymerâ€based composites via organoâ€modification of singleâ€walled carbon nanotubes obtained by twoâ€types of manufacturing processes. <i>Polymer Composites</i> , 2022, 43, 3457-3470.	2.3	4
303	Fatigue of amorphous hydrogels with dynamic covalent bonds. <i>Extreme Mechanics Letters</i> , 2022, 53, 101679.	2.0	7
304	Natural extracts-mediated efficient and electrically responsive bioglues. <i>Extreme Mechanics Letters</i> , 2022, 53, 101687.	2.0	1
305	Biomimetic macroporous hydrogel with a triple-network structure for full-thickness skin regeneration. <i>Applied Materials Today</i> , 2022, 27, 101442.	2.3	7
306	Photo-curing preparation of biobased underwater adhesives with hydrophobic chain-ring interlace structure for protecting adhesion. <i>Applied Materials Today</i> , 2022, 27, 101436.	2.3	3
307	An enzyme cross-linked hydrogel as a minimally invasive arterial tissue sealing and anti-adhesion barrier. <i>Nano Today</i> , 2022, 44, 101467.	6.2	26
308	Carboxymethyl chitosan-based hydrogels containing fibroblast growth factors for triggering diabetic wound healing. <i>Carbohydrate Polymers</i> , 2022, 287, 119336.	5.1	98
309	An adhesive and resilient hydrogel for the sealing and treatment of gastric perforation. <i>Bioactive Materials</i> , 2022, 14, 52-60.	8.6	20
310	Chemically Modified Silk Fibroin Hydrogel for Environment-stable Electronic Skin. <i>Sensors and Actuators Reports</i> , 2022, 4, 100089.	2.3	9
311	Junctional epithelium and hemidesmosomes: Tape and rivets for solving the â€percutaneous device dilemmaâ€in dental and other permanent implants. <i>Bioactive Materials</i> , 2022, 18, 178-198.	8.6	19

#	ARTICLE	IF	CITATIONS
312	Hydrogel-Based Biomaterials Engineered from Natural-Derived Polysaccharides and Proteins for Hemostasis and Wound Healing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 780187.	2.0	29
313	Tough Hydrogel Bioadhesives for Sutureless Wound Sealing, Hemostasis and Biointerfaces. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	67
314	Wearable Bioelectronics for Chronic Wound Management. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	64
315	Multimicrochannel Microneedle Microporation Platform for Enhanced Intracellular Drug Delivery. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	29
316	Using Molecules with Superior Water-Plasticity to Build Solid-Phase Molecular Self-Assembly: Room-Temperature Engineering Mendable and Recyclable Functional Supramolecular Plastics. , 2022, 4, 145-152.		14
317	Thermoresponsive Lignin-Reinforced Poly(Ionic Liquid) Hydrogel Wireless Strain Sensor. <i>Research</i> , 2021, 2021, 9845482.	2.8	21
318	Reversing Hydrogel Adhesion Property via Firmly Anchoring Thin Adhesive Coatings. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	36
319	Soft Bioelectronics Based on Nanomaterials. <i>Chemical Reviews</i> , 2022, 122, 5068-5143.	23.0	72
320	Nature-Inspired Hydrogel Network for Efficient Tissue-Specific Underwater Adhesive. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 59761-59771.	4.0	26
321	Controllable Synthesis of Polyphenol Spheres via Amine-Catalyzed Polymerization-Induced Self-Assembly. <i>Biomacromolecules</i> , 2022, 23, 140-149.	2.6	8
322	Dual-network hydrogel based on ionic nano-reservoir for gastric perforation sealing. <i>Science China Materials</i> , 2022, 65, 827-835.	3.5	11
323	Skin-Adaptable, Long-Lasting Moisture, and Temperature-Tolerant Hydrogel Dressings for Accelerating Burn Wound Healing without Secondary Damage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 59695-59707.	4.0	45
325	Ternary Complex Coacervate of PEG/TA/Gelatin as Reinforced Bioadhesive for Skin Wound Repair. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18097-18109.	4.0	21
326	Mussel Inspired Triggerâ€Detachable Adhesive Hydrogel. <i>Small</i> , 2022, 18, e2200336.	5.2	16
327	Lignin-Inspired Hydrogel Matrixes with Adhesion and Toughness for All-Hydrogel Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
328	Hydrogels for underwater adhesion: adhesion mechanism, design strategies and applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11823-11853.	5.2	74
329	Design of Doubleâ€Network Clickâ€Gels for Selfâ€Contained Underwater Adhesion and Energyâ€Wise Applications in Floating Photovoltaics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	13
330	Surface Wettability for Skinâ€Interfaced Sensors and Devices. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	67

#	ARTICLE	IF	CITATIONS
331	Adhesive and Hydrophobic Bilayer Hydrogel Enabled On-Skin Biosensors for High-Fidelity Classification of Human Emotion. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	58
332	Bioinspired Functional Surfaces for Medical Devices. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2022, 35, .	1.9	6
333	Injectable and Self-Healing Probiotics-Loaded Hydrogel for Promoting Superbacteria-Infected Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20538-20550.	4.0	45
334	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	4.2	85
335	A multifunctional MXene-assembled anhydrous gel electronics. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 1151-1159.	5.0	9
336	An instantly fixable and self-adaptive scaffold for skull regeneration by autologous stem cell recruitment and angiogenesis. <i>Nature Communications</i> , 2022, 13, 2499.	5.8	54
337	Infant Skin Friendly Adhesive Hydrogel Patch Activated at Body Temperature for Bioelectronics Securing and Diabetic Wound Healing. <i>ACS Nano</i> , 2022, 16, 8662-8676.	7.3	112
338	Advances in adhesive hydrogels for tissue engineering. <i>European Polymer Journal</i> , 2022, 172, 111241.	2.6	18
339	Targeting polysaccharides such as chitosan, cellulose, alginate and starch for designing hemostatic dressings. <i>Carbohydrate Polymers</i> , 2022, 291, 119574.	5.1	29
340	Barnacle-Inspired robust and aesthetic Janus patch with instinctive wet adhesive for oral ulcer treatment. <i>Chemical Engineering Journal</i> , 2022, 444, 136580.	6.6	15
341	A multifunctional chitosan hydrogel dressing for liver hemostasis and infected wound healing. <i>Carbohydrate Polymers</i> , 2022, 291, 119631.	5.1	50
342	Bio-Inspired Self-Hydrophobized Sericin Adhesive with Tough Underwater Adhesion Enables Wound Healing and Fluid Leakage Sealing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	29
343	Adhesive and Biodegradable Polymer Mixture Composed of High Bio-Safety Pharmaceutical Excipients as Non-Setting Periodontal Dressing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
344	Fe (III)-Coordinated N-[Tris(Hydroxymethyl)Methyl]Acrylamide Modified Acrylic Pressure-Sensitive Adhesives with Enhanced Adhesion and Cohesion for Efficient Transdermal Application. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
345	Robust Silk Protein Hydrogels Made by a Facile One-Step Method and Their Multiple Applications. <i>ACS Applied Bio Materials</i> , 2022, 5, 3086-3094.	2.3	8
346	Gelation of highly entangled hydrophobic macromolecular fluid for ultrastrong underwater in situ fast tissue adhesion. <i>Science Advances</i> , 2022, 8, .	4.7	31
347	Bio-Inspired Antibacterial Hydrogel Adhesives with High Adhesion Strength. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	7
348	Natural Dual-Crosslinked Self-Healing Hydrogels for In Situ Wound Healing. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	2

#	ARTICLE	IF	CITATIONS
349	A Dual-Bioinspired Tissue Adhesive Based on Peptide Dendrimer with Fast and Strong Wet Adhesion. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	15
350	Design of hydrogel-based wearable EEG electrodes for medical applications. <i>Journal of Materials Chemistry B</i> , 2022, 10, 7260-7280.	2.9	25
351	Fabrication and Functionality Integration Technologies for Small-Scale Soft Robots. <i>Advanced Materials</i> , 2022, 34, .	11.1	13
352	Conductive Hydrogel Conduits with Growth Factor Gradients for Peripheral Nerve Repair in Diabetics with Non-Suture Tape. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	19
353	Engineered Hemostatic Biomaterials for Sealing Wounds. <i>Chemical Reviews</i> , 2022, 122, 12864-12903.	23.0	79
354	Body Temperature Enhanced Adhesive, Antibacterial, and Recyclable Ionic Hydrogel for Epidermal Electrophysiological Monitoring. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	29
355	Multistimuli-responsive hydrogels with both anisotropic mechanical performance and anisotropic luminescent behavior. <i>Chemical Engineering Journal</i> , 2022, 449, 137718.	6.6	26
356	Cable-Driven Continuum Robot Perception Using Skin-Like Hydrogel Sensors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	34
357	Preparation of a strong soy protein adhesive with mildew proof, flame-retardant, and electromagnetic shielding properties via constructing nanophase-reinforced organic-inorganic hybrid structure. <i>Chemical Engineering Journal</i> , 2022, 447, 137536.	6.6	31
358	Mussel-inspired hydrogels for fast fabrication of flexible SERS tape for point-of-care testing of $\beta$ -blockers. <i>Analyst</i> , 2022, 147, 3652-3661.	1.7	6
359	A double-network strategy for the tough tissue adhesion of hydrogels with long-term stability under physiological environment. <i>Soft Matter</i> , 2022, 18, 6192-6199.	1.2	10
360	Biomedical engineering of polysaccharide-based tissue adhesives: Recent advances and future direction. <i>Carbohydrate Polymers</i> , 2022, 295, 119787.	5.1	23
361	A Glycosylated and Catechol-crosslinked $\beta$ -Polylysine Hydrogel: Simple Preparation and Excellent Wound Hemostasis and Healing Properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 1110-1119.	2.0	11
362	Sutureless gastrointestinal anastomoses. <i>Nature Biomedical Engineering</i> , 2022, 6, 1089-1091.	11.6	2
363	Octopus-inspired adhesive skins for intelligent and rapidly switchable underwater adhesion. <i>Science Advances</i> , 2022, 8, .	4.7	60
364	In situ fused granular hydrogels with ultrastretchability, strong adhesion, and multi-bioactivities for efficient chronic wound care. <i>Chemical Engineering Journal</i> , 2022, 450, 138076.	6.6	12
365	Large-area, daily, on-site-applicable antiadhesion coatings formed via ambient self-crosslinking. <i>Chemical Engineering Journal</i> , 2022, 450, 138156.	6.6	2
366	A strain-programmed patch for the healing of diabetic wounds. <i>Nature Biomedical Engineering</i> , 2022, 6, 1118-1133.	11.6	82

#	ARTICLE	IF	CITATIONS
367	Natureâ€Derived Okra Gel as Strong Hemostatic Bioadhesive in Human Blood, Liver, and Heart Trauma of Rabbits and Dogs. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	15
368	Toward Plant Cyborgs: Hydrogels Incorporated onto Plant Tissues Enable Programmable Shape Control. <i>ACS Macro Letters</i> , 2022, 11, 961-966.	2.3	5
369	Rapid Ultratough Topological Tissue Adhesives. <i>Advanced Materials</i> , 2022, 34, .	11.1	31
370	Preparation of Mussel-Inspired Stable-Bonding Dust Binders for Fugitive Dust Control. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5341-5354.	2.0	3
371	Janus mucosal dressing with a tough and adhesive hydrogel based on synergistic effects of gelatin, polydopamine, and nano-clay. <i>Acta Biomaterialia</i> , 2022, 149, 126-138.	4.1	29
372	Water-driven noninvasively detachable wet tissue adhesives for wound closure. <i>Materials Today Bio</i> , 2022, 16, 100369.	2.6	9
373	Brush-Modified Hydrogels: Preparations, Properties, and Applications. <i>Chemistry of Materials</i> , 2022, 34, 6210-6231.	3.2	10
374	Stability of hydrogel adhesion enabled by siloxane bonds. <i>Engineering Fracture Mechanics</i> , 2022, 271, 108662.	2.0	3
375	Conductive hydrogel dressings based on cascade reactions with photothermal effect for monitoring and treatment of diabetic wounds. <i>Composites Part B: Engineering</i> , 2022, 242, 110098.	5.9	28
376	Engineering stem cell therapeutics for cardiac repair. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 171, 56-68.	0.9	12
377	In situ synthesis of highly stretchable, freeze-tolerant silk-polyelectrolyte double-network hydrogels for multifunctional flexible sensing. <i>Chemical Engineering Journal</i> , 2022, 446, 137405.	6.6	35
378	Lignin-containing hydrogel matrices with enhanced adhesion and toughness for all-hydrogel supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 450, 138025.	6.6	22
379	Robust hydrogel adhesives for emergency rescue and gastric perforation repair. <i>Bioactive Materials</i> , 2023, 19, 703-716.	8.6	25
380	Functional Trachea Reconstruction Using 3Dâ€Bioprinted Nativeâ€Like Tissue Architecture Based on Designable Tissueâ€Specific Bioinks. <i>Advanced Science</i> , 2022, 9, .	5.6	24
381	A double crosslinking adhesion mechanism for developing tough hydrogel adhesives. <i>Acta Biomaterialia</i> , 2022, 150, 199-210.	4.1	6
382	Mussel-inspired multifunctional hydrogel dressing with hemostasis, hypoglycemic, photothermal antibacterial properties on diabetic wounds. <i>Biomaterials Science</i> , 2022, 10, 4796-4814.	2.6	14
383	Bioadhesive ultrasound for long-term continuous imaging of diverse organs. <i>Science</i> , 2022, 377, 517-523.	6.0	168
384	Smart Internal Bioâ€Glues. <i>Advanced Science</i> , 2022, 9, .	5.6	21

#	ARTICLE	IF	CITATIONS
385	Controlled tough bioadhesion mediated by ultrasound. <i>Science</i> , 2022, 377, 751-755.	6.0	79
386	Tailoring Physical Properties of Dual-Network Acrylamide Hydrogel Composites by Engineering Molecular Structures of the Cross-linked Network. <i>ACS Omega</i> , 2022, 7, 30028-30039.	1.6	5
387	An Injectable Rapid Adhesion and Anti-Swelling Adhesive Hydrogel for Hemostasis and Wound Sealing. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	50
388	Liquid-infused microstructured bioadhesives halt non-compressible hemorrhage. <i>Nature Communications</i> , 2022, 13, .	5.8	37
389	pH-Universal Catechol-Amine Chemistry for Versatile Hyaluronic Acid Bioadhesives. <i>Small</i> , 2022, 18, .	5.2	20
390	A non-surgical suturing strategy for rapid cardiac hemostasis. <i>Nano Research</i> , 2023, 16, 810-821.	5.8	4
391	Water-Triggered Spontaneously Solidified Adhesive: From Instant and Strong Underwater Adhesion to In Situ Signal Transmission. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
392	Advances and challenges in conductive hydrogels: From properties to applications. <i>European Polymer Journal</i> , 2022, 177, 111454.	2.6	34
393	Sprayable Hydrogel for Instant Sealing of Vascular Anastomosis. <i>Advanced Materials</i> , 2022, 34, .	11.1	12
395	Supramolecular Adhesive Materials with Antimicrobial Activity for Emerging Biomedical Applications. <i>Pharmaceutics</i> , 2022, 14, 1616.	2.0	3
397	Hybrid polymer networks of carbene and thiol ene. <i>European Polymer Journal</i> , 2022, 178, 111502.	2.6	3
398	Adhesive polyethylene glycol-based hydrogel patch for tissue repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 218, 112751.	2.5	9
399	Wet adhesive hydrogel cardiac patch loaded with anti-oxidative, autophagy-regulating molecule capsules and MSCs for restoring infarcted myocardium. <i>Bioactive Materials</i> , 2023, 21, 20-31.	8.6	27
400	Underwater instant adhesion mechanism of self-assembled amphiphilic hemostatic granular hydrogel from <i>Andrias davidianus</i> skin secretion. <i>iScience</i> , 2022, 25, 105106.	1.9	9
401	Delayed tensile instabilities of hydrogels. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 168, 105052.	2.3	7
402	Kirigami-inspired adhesion with high directional asymmetry. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 169, 105053.	2.3	10
403	Design strategies for adhesive hydrogels with natural antibacterial agents as wound dressings: Status and trends. <i>Materials Today Bio</i> , 2022, 16, 100429.	2.6	30
404	A highly-stretchable and adhesive hydrogel for noninvasive joint wound closure driven by hydrogen bonds. <i>Chemical Engineering Journal</i> , 2023, 452, 139368.	6.6	41

#	ARTICLE	IF	CITATIONS
405	Catch bond-inspired hydrogels with repeatable and loading rate-sensitive specific adhesion. <i>Bioactive Materials</i> , 2023, 21, 566-575.	8.6	4
406	3D Printing of PEDOT:PSS-PU-PAA Hydrogels with Excellent Mechanical and Electrical Performance for EMG Electrodes. <i>Lecture Notes in Computer Science</i> , 2022, , 295-304.	1.0	1
407	Multiscale modeling of hydrogels. , 2022, , 187-222.		1
408	Turn Wastes into Valuables: Supramolecular-Interaction Enabled Preparation of Super-Strong Water-Based Adhesives from Polymethylmethacrylate Wastes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
409	Fatigue of hydrogels. , 2022, , 119-138.		1
410	Study of the microstructure of chitosan aerogel beads prepared by supercritical CO <sub>2</sub> drying and the effect of long-term storage. <i>RSC Advances</i> , 2022, 12, 21041-21049.	1.7	5
411	Mechanically active small intestinal submucosa hydrogel for accelerating chronic wound healing. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6279-6286.	2.9	11
412	Coatings of hydroxyapatiteâ€bioactive glass microparticles for adhesion to biological tissues. <i>RSC Advances</i> , 2022, 12, 21079-21091.	1.7	5
413	Chitosan enhanced the stability and antibiofilm activity of self-propelled Prussian blue micromotor. <i>Carbohydrate Polymers</i> , 2023, 299, 120134.	5.1	41
414	Transparent and Skinâ€Attachable Silver Nanowire Electrodes Embedded on Dissolvable Polyurethane for Highly Conformable Wearable Electronics. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	3
415	Photoresponsive Hydrogelâ€Coated Upconversion Cyanobacteria Nanocapsules for Myocardial Infarction Prevention and Treatment. <i>Advanced Science</i> , 2022, 9, .	5.6	10
416	Enhancing the interfacial binding strength between modular stretchable electronic components. <i>National Science Review</i> , 2023, 10, .	4.6	12
417	Gradient Modulus Tissue Adhesive Composite for Dynamic Wound Closure. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
418	Hydrogelâ€Tissue Interface Interactions for Implantable Flexible Bioelectronics. <i>Langmuir</i> , 2022, 38, 11503-11513.	1.6	17
419	Natural Dualâ€Crosslinking Bioadhesive Hydrogel for Corneal Regeneration in Largeâ€Size Defects. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	9
420	Structural Color Medical Patch with Surface Dualâ€Properties of Wet Bioadhesion and Slipperiness. <i>Advanced Science</i> , 2022, 9, .	5.6	21
421	Ultra-stretchable, Antifatigue, Adhesive, and Self-Healing Hydrogels Based on the Amino Acid Derivative and Ionic Liquid for Flexible Strain Sensors. <i>ACS Applied Polymer Materials</i> , 2022, 4, 7575-7586.	2.0	7
422	Fe(III)-coordinated N-[tris(hydroxymethyl)methyl]acrylamide-modified acrylic pressure-sensitive adhesives with enhanced adhesion and cohesion for efficient transdermal application. <i>Acta Biomaterialia</i> , 2022, 152, 186-196.	4.1	8

#	ARTICLE	IF	CITATIONS
423	Mussel Byssus Inspired Ionic Skin with Damage-Resistant Signal for Human-Machine Interaction. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	2
424	Regulation of the Inevitable Water-Responsivity of Silk Fibroin Biopolymer by Polar Amino Acid Activation. <i>ACS Nano</i> , 2022, 16, 17274-17288.	7.3	1
425	Recent progress in fabrications and applications of functional hydrogel films. <i>Journal of Polymer Science</i> , 2023, 61, 1026-1039.	2.0	6
426	Mucosa-interfacing electronics. <i>Nature Reviews Materials</i> , 2022, 7, 908-925.	23.3	35
427	Development of cellulosic-based hemostatic dressing with antibacterial activity. <i>Fashion and Textiles</i> , 2022, 9, .	1.3	3
428	Engineering Bio-Adhesives Based on Protein-Polysaccharide Phase Separation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 9987.	1.8	7
429	Thermoresponsive and Injectable Hydrogel for Tissue Agnostic Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	7
430	Instant and Tough Adhesives for Rapid Gastric Perforation and Traumatic Pneumothorax Sealing. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	5
431	Morphing-to-Adhesion Polysaccharide Hydrogel for Adaptive Biointerfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 42420-42429.	4.0	15
432	Design the molecule structures to achieve functional advantages of hydrogel wound dressings: Advances and strategies. <i>Composites Part B: Engineering</i> , 2022, 247, 110313.	5.9	54
433	Anti-Fouling, Adhesive Polyzwitterionic Hydrogel Electrodes Toughened Using a Tannic Acid Nanoflower. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 45954-45965.	4.0	13
434	Convenient hydrogel adhesion with crystalline zones. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 117, 103-108.	2.9	3
435	Bridging wounds: tissue adhesives™ essential mechanisms, synthesis and characterization, bioinspired adhesives and future perspectives. <i>Burns and Trauma</i> , 2022, 10, .	2.3	12
436	Bio-macromolecular design roadmap towards tough bioadhesives. <i>Chemical Society Reviews</i> , 2022, 51, 9127-9173.	18.7	31
437	Double-Action Disinfection with Silk Fibroin Gauze: Reliable Therapeutics to Prevent Infectious Complications. , 2022, 4, 2219-2232.		2
438	Texture and rheological features of strain and pH sensitive chitosan-imine graphene-oxide composite hydrogel with fast self-healing nature. <i>International Journal of Biological Macromolecules</i> , 2022, 222, 3129-3141.	3.6	5
439	Hydrogel interfaces for merging humans and machines. <i>Nature Reviews Materials</i> , 2022, 7, 935-952.	23.3	153
440	Topologically Enhanced Cation-Interactions for Developing High-Performance Underwater Adhesive. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	4

#	ARTICLE	IF	CITATIONS
441	Ultrathin Hydrogel Films toward Breathable Skin-Integrated Electronics. <i>Advanced Materials</i> , 2023, 35, .	11.1	66
442	Wearable respiratory sensors for COVID-19 monitoring. <i>View</i> , 2022, 3, .	2.7	10
443	Rational Design of Soft-Hard Interfaces through Bioinspired Engineering. <i>Small</i> , 2023, 19, .	5.2	6
444	Engineering multifunctional bioadhesive powders through dynamic metal-ligand coordination. <i>Science China Chemistry</i> , 2022, 65, 2260-2273.	4.2	3
445	Tetra-armed PEG-based rapid high-adhesion, antibacterial and biodegradable pre-clinical bioadhesives for preventing pancreas leakage. <i>Materials and Design</i> , 2022, 224, 111281.	3.3	5
446	Design of biopolymer-based hemostatic material: Starting from molecular structures and forms. <i>Materials Today Bio</i> , 2022, 17, 100468.	2.6	10
447	Povidone-iodine enhanced underwater tape. <i>Journal of Materials Chemistry B</i> , 2022, 10, 9906-9913.	2.9	7
448	Stretchable strain sensor of composite hydrogels with high fatigue resistance and low hysteresis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 25564-25574.	5.2	21
449	Facile preparation and characterization of photopolymerized adhesive hydrogels based on methacrylated catechol-chitosan. <i>Journal of Materials Science</i> , 2022, 57, 20974-20986.	1.7	5
450	Endoscopy Deliverable and Mushroom-Cap-Inspired Hyperboloid-Shaped Drug-Laden Bioadhesive Hydrogel for Stomach Perforation Repair. <i>ACS Nano</i> , 2023, 17, 111-126.	7.3	24
451	Multifunctional Dual Cross-Linked Bioadhesive Patch with Low Immunogenic Response and Wet Tissues Adhesion. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	9
452	Aligned nanofibrous collagen membranes from fish swim bladder as a tough and acid-resistant suture for pH-regulated stomach perforation and tendon rupture. <i>Biomaterials Research</i> , 2022, 26, .	3.2	3
453	Strongly-adhesive easily-detachable carboxymethyl cellulose aerogel for noncompressible hemorrhage control. <i>Carbohydrate Polymers</i> , 2023, 301, 120324.	5.1	8
454	Superwetting Injectable Hydrogel with Ultrastrong and Fast Tissue Adhesion for Minimally Invasive Hemostasis. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	11
455	A Dual-Network Nerve Adhesive with Enhanced Adhesion Strength Promotes Transected Peripheral Nerve Repair. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	16
456	Surface Hydrophobization Provides Hygroscopic Supramolecular Plastics Based on Polysaccharides with Damage-Specific Healability and Room-Temperature Recyclability. <i>Advanced Materials</i> , 2023, 35, .	11.1	7
457	Tailoring the elasticity of nerve implants for regulating peripheral nerve regeneration. <i>Smart Materials in Medicine</i> , 2023, 4, 266-285.	3.7	5
458	Polysaccharide-Based Adhesive Antibacterial and Self-Healing Hydrogel for Sealing Hemostasis. <i>Biomacromolecules</i> , 2022, 23, 5106-5115.	2.6	12

#	ARTICLE	IF	CITATIONS
459	Investigation of the underwater clinching process for joining metal sheets. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 2383-2391.	1.4	1
460	Immediately activating hemostatic cellulose sealants for uncontrolled hemorrhage. Applied Materials Today, 2022, 29, 101688.	2.3	1
461	Peeling behavior of a film on inner surface of a tube. Extreme Mechanics Letters, 2023, 58, 101930.	2.0	1
462	In-situ polymerization of PANI on hydrogel electrolyte enabling all-in-one supercapacitors mechanically stable at low temperatures. Chemical Engineering Journal, 2023, 455, 140949.	6.6	11
463	Biomimetic multifunctional hybrid sponge via enzymatic cross-linking to accelerate infected burn wound healing. International Journal of Biological Macromolecules, 2023, 225, 90-102.	3.6	5
464	Tissue adhesive hemostatic microneedle arrays for rapid hemorrhage treatment. Bioactive Materials, 2023, 23, 314-327.	8.6	27
465	Fabricated technology of biomedical micro-nano hydrogel. , 2023, 2, 31-48.		17
466	A sandwiched patch toward leakage-free and anti-postoperative tissue adhesion sealing of intestinal injuries. Bioactive Materials, 2023, 24, 112-123.	8.6	7
467	Impact of Charge Composition and Distribution on the Antibacterial Properties of Polypeptide Coatings. ACS Macro Letters, 2022, 11, 1373-1377.	2.3	5
468	Elastic electronics based on micromesh-structured rubbery semiconductor films. Nature Electronics, 2022, 5, 881-892.	13.1	18
470	Insights on Chemical Crosslinking Strategies for Proteins. Molecules, 2022, 27, 8124.	1.7	22
471	Functional Tough Hydrogels: Design, Processing, and Biomedical Applications. Accounts of Materials Research, 2023, 4, 101-114.	5.9	23
473	Within or Without You? A Perspective Comparing In Situ and Ex Situ Tissue Engineering Strategies for Articular Cartilage Repair. Advanced Healthcare Materials, 2022, 11, .	3.9	4
474	Thermally Responsive Fibers for Versatile Thermoactivated Protective Fabrics. Advanced Functional Materials, 2023, 33, .	7.8	2
475	High Performance Marine and Terrestrial Bioadhesives and the Biomedical Applications They Have Inspired. Molecules, 2022, 27, 8982.	1.7	5
476	Nanomaterial-Based Electrically Conductive Hydrogels for Cardiac Tissue Repair. International Journal of Nanomedicine, 0, Volume 17, 6181-6200.	3.3	8
477	Thermalâ€sinterable EGaIn Nanoparticle Inks for Highly Deformable Bioelectrode Arrays. Advanced Healthcare Materials, 2023, 12, .	3.9	9
478	Effect of Tribute citrus essential oil nanoemulsion-loaded gelatin on the gel behavior and gelation surface morphologies. Food Bioscience, 2022, , 102322.	2.0	0

#	ARTICLE	IF	CITATIONS
479	Biomimetic Natural Biopolymer-Based Wet-Tissue Adhesive for Tough Adhesion, Seamless Sealed, Emergency/Nonpressing Hemostasis, and Promoted Wound Healing. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	35
480	Injectable Dopamine-Polysaccharide In Situ Composite Hydrogels with Enhanced Adhesiveness. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 427-436.	2.6	3
481	Plant-Inspired Multifunctional Bioadhesives with Self-Healing Adhesion Strength to Promote Wound Healing. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	1
482	Silk Fibroin-Based Tough Hydrogels with Strong Underwater Adhesion for Fast Hemostasis and Wound Sealing. <i>Biomacromolecules</i> , 2023, 24, 319-331.	2.6	8
483	Effect of Salt on Dynamic Mechanical Behaviors of Polyampholyte Hydrogels. <i>Macromolecules</i> , 2023, 56, 535-544.	2.2	16
484	Design of Adhesive Hemostatic Hydrogels Guided by the Interfacial Interactions with Tissue Surface. <i>Advanced NanoBiomed Research</i> , 2023, 3, .	1.7	2
485	Tuning chitosan's chemical structure for enhanced biological functions. <i>Trends in Biotechnology</i> , 2023, 41, 785-797.	4.9	10
486	Acceleration of Oral Wound Healing under Diabetes Mellitus Conditions Using Bioadhesive Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 416-431.	4.0	13
487	Bio-Inspired adhesive hydrogel for biomedicine principles and design strategies. , 2022, 1, .		17
488	Poly(glycidyl azide) as Photo-Crosslinker for Polymers. <i>Polymers</i> , 2022, 14, 5451.	2.0	2
489	Self-debonding of adhesive thin films on convex cylindrical surfaces and spherical surfaces. <i>Journal of Applied Mechanics, Transactions ASME</i> , 0, , 1-23.	1.1	0
490	Emerging Hydrogen-Bond Design for High-Performance Dynamic Polymeric Materials. , 2023, 5, 480-490.		9
491	Bioresponsive Immunotherapeutic Materials. <i>Advanced Materials</i> , 0, , .	11.1	11
492	A self-healing and antibacterial electronic skin based on a natural small molecule. <i>Journal of Materials Chemistry C</i> , 2023, 11, 1879-1890.	2.7	3
493	Advances and challenges on hydrogels for wound dressing. <i>Current Opinion in Biomedical Engineering</i> , 2023, 26, 100443.	1.8	16
494	A visco-hyperelastic model for hydrogels with tunable water content. <i>Journal of the Mechanics and Physics of Solids</i> , 2023, 173, 105206.	2.3	15
495	Omni-adhesive fibers via Taylor-cone co-electrospinning towards cold-supply chain. <i>Nano Today</i> , 2023, 48, 101748.	6.2	0
496	Periosteum-inspired in situ CaP generated nanocomposite hydrogels with strong bone adhesion and superior stretchability for accelerated distraction osteogenesis. <i>Biomaterials Research</i> , 2022, 26, .	3.2	3

#	ARTICLE	IF	CITATIONS
497	Construction of adhesive and bioactive silk fibroin hydrogel for treatment of spinal cord injury. <i>Acta Biomaterialia</i> , 2023, 158, 178-189.	4.1	19
498	A Super Tough, Rapidly Biodegradable, Ultrafast Hemostatic Bioglue. <i>Advanced Materials</i> , 2023, 35, .	11.1	24
499	An Ultrasound-Driven Bioadhesive Triboelectric Nanogenerator for Instant Wound Sealing and Electrically Accelerated Healing in Emergencies. <i>Advanced Materials</i> , 2023, 35, .	11.1	38
500	Inorganic Component Imaging of Aggregate Glue Droplets on Spider Orb Webs by TOF-SIMS. <i>Journal of Surface Analysis (Online)</i> , 2021, 27, 78-94.	0.1	0
501	Adhesive Composite Hydrogel Patch for Sustained Transdermal Drug Delivery To Treat Atopic Dermatitis. <i>Chemistry of Materials</i> , 2023, 35, 1209-1217.	3.2	10
502	Smart Skin-Adhesive Patches: From Design to Biomedical Applications. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	16
503	Mucoadhesive chitosan-methylcellulose oral patches for the treatment of local mouth bacterial infections. <i>Biomaterials Science</i> , 2023, 11, 2699-2710.	2.6	4
504	A natural biological adhesive from snail mucus for wound repair. <i>Nature Communications</i> , 2023, 14, .	5.8	44
505	Injectable gelatin-oligo-catechol conjugates for tough thermosensitive bioadhesion. <i>Cell Reports Physical Science</i> , 2023, 4, 101259.	2.8	5
506	Recent development in multizonal scaffolds for osteochondral regeneration. <i>Bioactive Materials</i> , 2023, 25, 122-159.	8.6	7
507	In vivo bioprinting: Broadening the therapeutic horizon for tissue injuries. <i>Bioactive Materials</i> , 2023, 25, 201-222.	8.6	9
508	Getting glued in the sea. <i>Polymer Journal</i> , 2023, 55, 653-664.	1.3	2
509	Adhesive cryogel particles for bridging confined and irregular tissue defects. <i>Military Medical Research</i> , 2023, 10, .	1.9	0
510	Material Design in Implantable Biosensors toward Future Personalized Diagnostics and Treatments. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 4630.	1.3	1
511	Band-Aid-Like Self-Fixed Barrier Membranes Enable Superior Bone Augmentation. <i>Advanced Science</i> , 2023, 10, .	5.6	2
512	An Integrally Formed Janus Hydrogel for Robust Wet-Tissue Adhesive and Anti-Postoperative Adhesion. <i>Advanced Materials</i> , 2023, 35, .	11.1	23
513	Sequential self-assembly and self-coacervation actuate water-triggered robust bonding: From universal underwater adhesion to on-demand detachable bioadhesion. <i>Chemical Engineering Journal</i> , 2023, 463, 142436.	6.6	1
514	Minimally invasive bioprinting for in situ liver regeneration. <i>Bioactive Materials</i> , 2023, 26, 465-477.	8.6	6

#	ARTICLE	IF	CITATIONS
515	A cellulose nanocrystals/tung oil-based multifunctional polymer with good mechanical properties, thermal stability, adhesive, self-healing, and recyclable properties. <i>Industrial Crops and Products</i> , 2023, 197, 116636.	2.5	5
516	Influence of the Degree of Swelling on the Stiffness and Toughness of Microgel-Reinforced Hydrogels. <i>Macromolecular Rapid Communications</i> , 2023, 44, .	2.0	4
517	Polymer nanomaterials for use as adjuvant surgical tools. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 0, , .	3.3	3
518	Novel Bilayer Elasto-Hydrogel Adhesive Film for Facilitating Wet-Occlusive Therapy for Atopic Dermatitis. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2023, 17, .	0.4	0
519	Hybrid neural interfacing devices based on Au wires with nanogranular Au shell and hydrogel layer for anti-inflammatory and bi-directional neural communications. <i>Chemical Engineering Journal</i> , 2023, 465, 142966.	6.6	3
520	Preparation of novel injectable photo-crosslinked collagen gels by a fast and simple method. <i>Materials Letters</i> , 2023, 336, 133911.	1.3	0
521	Supramolecular interaction enabled preparation of high-strength water-based adhesives from polymethylmethacrylate wastes. <i>IScience</i> , 2023, 26, 106022.	1.9	1
522	Soft underwater adhesives based on weak molecular interactions. <i>Progress in Polymer Science</i> , 2023, 139, 101649.	11.8	9
523	An Instant Underwater Tissue Adhesive Composed of Catechin-Chondroitin Sulfate and Cholesterol-Polyethyleneimine. <i>Advanced Healthcare Materials</i> , 0, , 2202814.	3.9	3
524	Polymeric Scaffolds for Regeneration of Central/Peripheral Nerves and Soft Connective Tissues. <i>Advanced NanoBiomed Research</i> , 2023, 3, .	1.7	2
525	Adhesive hydrogels in osteoarthritis: from design to application. <i>Military Medical Research</i> , 2023, 10, .	1.9	7
526	A bioadhesive robot to activate muscles. <i>Nature Materials</i> , 2023, 22, 149-150.	13.3	0
527	Anti-Dehydration and Rapid Trigger- Detachable Multifunctional Hydrogels Promote Scarless Therapeutics of Deep Burn. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	20
528	Tuning Water-Resistant Networks in Mussel-Inspired Hydrogels for Robust Wet Tissue and Bioelectronic Adhesion. <i>ACS Nano</i> , 2023, 17, 2745-2760.	7.3	39
529	A Nonswelling Hydrogel with Regenerable High Wet Tissue Adhesion for Bioelectronics. <i>Advanced Materials</i> , 2023, 35, .	11.1	35
530	Conductive and elastic bottlebrush elastomers for ultrasoft electronics. <i>Nature Communications</i> , 2023, 14, .	5.8	26
531	An inhaled bioadhesive hydrogel to shield non-human primates from SARS-CoV-2 infection. <i>Nature Materials</i> , 2023, 22, 903-912.	13.3	13
532	Surface-functionalized design of blood-contacting biomaterials for preventing coagulation and promoting hemostasis. <i>Friction</i> , 2023, 11, 1371-1394.	3.4	65

#	ARTICLE	IF	CITATIONS
533	Microneedles for in situ tissue regeneration. <i>Materials Today Bio</i> , 2023, 19, 100579.	2.6	2
534	Tissue adhesives for wound closure. , 2023, 2, .		8
535	Stainless Steel Screen Modified with Renatured Xerogel for Efficient and Highly Stable Oil/Water Separation via Gravity. <i>Langmuir</i> , 2023, 39, 3131-3141.	1.6	3
536	Bio-inspired ionic skins for smart medicine. , 2023, 2, .		3
537	Intrinsically Nonswellable Multifunctional Hydrogel with Dynamic Nanoconfinement Networks for Robust Tissue-Adaptable Bioelectronics. <i>Advanced Science</i> , 2023, 10, .	5.6	12
538	Recent advances in hydrogels for preventing tumor recurrence. <i>Biomaterials Science</i> , 2023, 11, 2678-2692.	2.6	4
539	Cellulose Gel Mechanoreceptors – Principles, Applications and Prospects. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	9
540	Peel tests for quantifying adhesion and toughness: A review. <i>Progress in Materials Science</i> , 2023, 137, 101086.	16.0	25
541	Circulatory Support: Artificial Muscles for the Future of Cardiovascular Assist Devices. <i>Advanced Materials</i> , 0, , .	11.1	2
542	Highly Efficient Switchable Underwater Adhesion in Channeled Hydrogel Networks. <i>Advanced Functional Materials</i> , 0, , .	7.8	10
543	Poly-catecholic Functionalization of Biomolecules for Rapid Gelation, Robust Injectable Bioadhesion, and Near-Infrared Responsiveness. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	4
544	All-Natural Immunomodulatory Bioadhesive Hydrogel Promotes Angiogenesis and Diabetic Wound Healing by Regulating Macrophage Heterogeneity. <i>Advanced Science</i> , 2023, 10, .	5.6	38
545	Self-recoverable, highly adhesive, anti-freezing/drying, organohydrogel stretchable sensors. <i>Applied Materials Today</i> , 2023, 31, 101777.	2.3	2
546	Wirelessly powered deformable electronic stent for noninvasive electrical stimulation of lower esophageal sphincter. <i>Science Advances</i> , 2023, 9, .	4.7	11
547	Technology Roadmap for Flexible Sensors. <i>ACS Nano</i> , 2023, 17, 5211-5295.	7.3	238
548	Biological Glue from Only Lipoic Acid for Scarless Wound Healing by Anti-inflammation and TGF- $\beta^2$ Regulation. <i>Chemistry of Materials</i> , 2023, 35, 2588-2599.	3.2	7
549	Mussel Foot Protein Inspired Tape-Type Adhesive with Water-Responsive, High Conformal, Tough, and On-Demand Detachable Adhesion to Wet Tissue. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	6
550	Wide-Humidity Range Applicable, Anti-Freezing, and Healable Zwitterionic Hydrogels for Ion-Leakage-Free Iontronic Sensors. <i>Advanced Materials</i> , 2023, 35, .	11.1	21

#	ARTICLE	IF	CITATIONS
551	Multifunctional and Tunable Coacervate Powders to Enable Rapid Hemostasis and Promote Infected Wound Healing. <i>Biomacromolecules</i> , 2023, 24, 1839-1854.	2.6	9
552	Multifunctional Underwater Adhesive Film Enabled by a Single-Component Poly(ionic liquid). <i>ACS Nano</i> , 2023, 17, 5871-5879.	7.3	5
553	Bioinspired Structure-Editing Fluorescent Hydrogel Actuators for Environment-Interactive Information Encryption. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	16
554	Bioinspired Structure-Editing Fluorescent Hydrogel Actuators for Environment-Interactive Information Encryption. <i>Angewandte Chemie</i> , 0, , .	1.6	0
555	Bioinspired chemical design to control interfacial wet adhesion. <i>Chem</i> , 2023, 9, 771-783.	5.8	14
556	Collocalia birds inspired Janus-structured bandage with strong wet tissue adhesion for rapid hemostasis and wound healing. <i>Chemical Engineering Journal</i> , 2023, 464, 142458.	6.6	9
557	Gelatin-based anticancer drug delivery nanosystems: A mini review. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	8
558	Dynamic and Wearable Electro-responsive Hydrogel with Robust Mechanical Properties for Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 17113-17122.	4.0	6
559	Granular Ionogel Particle Inks for 3D Printed Tough and Stretchable Ionotronics. <i>Research</i> , 2023, 6, .	2.8	3
560	Plant Protein-Peptide Supramolecular Polymers with Reliable Tissue Adhesion for Surgical Sealing. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	6
561	Self-adhesive, ionic-conductive, mechanically robust cellulose-based organogels with anti-freezing and rapid recovery properties for flexible sensors. <i>International Journal of Biological Macromolecules</i> , 2023, 240, 124171.	3.6	0
562	Skin-Interfaced Wearable Sweat Sensors for Precision Medicine. <i>Chemical Reviews</i> , 2023, 123, 5049-5138.	23.0	85
563	Strong and Tough Cellulose Hydrogels via Solution Annealing and Dual Cross-Linking. <i>Small</i> , 2023, 19, .	5.2	5
564	Advances in Hydrogel Adhesives for Gastrointestinal Wound Closure and Repair. <i>Gels</i> , 2023, 9, 282.	2.1	3
565	Supramolecular Adhesives with Extended Tolerance to Extreme Conditions via Water-Modulated Noncovalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	11
566	Supramolecular Adhesives with Extended Tolerance to Extreme Conditions via Water-Modulated Noncovalent Interactions. <i>Angewandte Chemie</i> , 0, , .	1.6	0
567	Reversible adhesives with controlled wrinkling patterns for programmable integration and discharging. <i>Science Advances</i> , 2023, 9, .	4.7	3
568	Entangled, Hofmeister effect-enhanced macromolecular adhesives for effective bonding in dynamic seawater. <i>Chemistry - A European Journal</i> , 0, , .	1.7	0

#	ARTICLE	IF	CITATIONS
578	Bioadhesives for clinical applications – a mini review. <i>Materials Advances</i> , 2023, 4, 2062-2069.	2.6	5
588	Soft Conductive Interfacing for Bioelectrical Uses: Adhesion Mechanisms and Structural Approaches. <i>Macromolecules</i> , 2023, 56, 4431-4446.	2.2	3
647	Self-healable gels in electrochemical energy storage devices. <i>Nano Research</i> , 0, , .	5.8	1
676	Biological applications of hydrogel coatings. , 2024, , 749-764.		0
721	Artificial intelligence-powered electronic skin. <i>Nature Machine Intelligence</i> , 2023, 5, 1344-1355.	8.3	4
744	Implantable soft electronics and sensors. , 2024, , 393-435.		0
766	The Nano Research Young Innovators Awards in bio-inspired nanomaterials. <i>Nano Research</i> , 2024, 17, 417-425.	5.8	0
772	Organic encapsulants for bioresorbable medical electronics. <i>MRS Bulletin</i> , 2024, 49, 247-255.	1.7	0