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Mussel-Inspired Adhesive and Tough Hydrogel Based on Nanoclay Confined Dopamine Polymerization

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640	Mussel-Inspired Electroactive and Antioxidative Scaffolds with Incorporation of Polydopamine-Reduced Graphene Oxide for Enhancing Skin Wound Healing.		
639	Highly Stretchable and Biocompatible Strain Sensors Based on Mussel-Inspired Super-Adhesive Self-Healing Hydrogels for Human Motion Monitoring.		
638	Conductive, Tough, Transparent, and Self-Healing Hydrogels Based on CatecholMetal Ion Dual Self-Catalysis.		
637	Bioinspired fabrication of high strength hydrogels from non-covalent interactions. 2017 , 71, 1-25		269
636	Bioinspired Adhesive Hydrogel Driven by Adenine and Thymine. 2017 , 9, 17645-17652		121
635	Catechol-cation adhesion on silica surfaces: molecular dynamics simulations. 2017 , 19, 29222-29231		14
634	Mussel-inspired hydrogel tissue adhesives for wound closure. 2017 , 7, 47380-47396		63
633	A Triblock Copolymer Design Leads to Robust Hybrid Hydrogels for High-Performance Flexible Supercapacitors. 2017 , 9, 36301-36310		27
632	Bioinspired Adhesive Hydrogels Tackified by Nucleobases. 2017 , 27, 1703132		103
631	Ultrastretchable, Tough, and Notch-Insensitive Hydrogels Formed with Spherical Polymer Brush Crosslinker. 2017 , 38, 1700455		13
630	Tannic Acid-Based Multifunctional Hydrogels with Facile Adjustable Adhesion and Cohesion Contributed by Polyphenol Supramolecular Chemistry. 2017 , 2, 6668-6676		98
629	The role played by modified bioinspired surfaces in interfacial properties of biomaterials. 2017 , 9, 683-6	598	23
628	A novel DOPA-albumin based tissue adhesive for internal medical applications. 2017 , 147, 99-115		53
627	Mussel-inspired electroactive chitosan/graphene oxide composite hydrogel with rapid self-healing and recovery behavior for tissue engineering. 2017 , 125, 557-570		184
626	Two Are Better than One: Halloysite Nanotubes-Supported Surface Imprinted Nanoparticles Using Synergy of Metal Chelating and Low pK Boronic Acid Monomers for Highly Specific Luteolin Binding under Neutral Condition. 2017 , 9, 33191-33202		27
625	Scarless Wound Closure by a Mussel-Inspired Poly(amidoamine) Tissue Adhesive with Tunable Degradability. 2017 , 2, 6053-6062		14

(2018-2017)

624	Microplasma-assisted rapid, chemical oxidant-free and controllable polymerization of dopamine for surface modification. 2017 , 8, 4388-4392	30
623	Fracture Toughness and Elastic Modulus of Epoxy-Based Nanocomposites with Dopamine-Modified Nano-Fillers. 2017 , 10,	9
622	Mussel-Inspired Dopamine and Carbon Nanotube Leading to a Biocompatible Self-Rolling Conductive Hydrogel Film. 2017 , 10,	6
621	Novel Hydrogel-Advanced Modified Clay Nanocomposites as Possible Vehicles for Drug Delivery and Controlled Release. 2017 , 7,	20
620	Bioadhesives for internal medical applications: A review. 2018 , 74, 1-16	83
619	Surface-conductive UHMWPE fibres via in situ reduction and deposition of graphene oxide. 2018 , 148, 167-176	13
618	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. <i>ACS Nano</i> , 2018 , 12, 4761-4774	33
617	Hydrogen bonds autonomously powered gelatin methacrylate hydrogels with super-elasticity, self-heal and underwater self-adhesion for sutureless skin and stomach surgery and E-skin. 2018 , 171, 83-96	140
616	A tough, stretchable, and extensively sticky hydrogel driven by milk protein. 2018 , 9, 2617-2624	59
615	Bioactive inorganic/organic nanocomposites for wound healing. 2018, 11, 308-319	76
614	Dopamine@Nanodiamond as novel reinforcing nanofillers for polyimide with enhanced thermal, mechanical and wear resistance performance 2018 , 8, 3694-3704	15
613	Fabrication of High-Sensitivity Skin-Attachable Temperature Sensors with Bioinspired Microstructured Adhesive. 2018 , 10, 7263-7270	111
612	Bioinspired Underwater Adhesives by Using the Supramolecular Toolbox. 2018 , 30, e1704640	271
611	One-pot solvent exchange preparation of non-swellable, thermoplastic, stretchable and adhesive supramolecular hydrogels based on dual synergistic physical crosslinking. 2018 , 10, e455-e455	39
610	Clay nanoparticles for regenerative medicine and biomaterial design: A review of clay bioactivity. 2018 , 159, 204-214	131
609	Gallol-containing homopolymers and block copolymers: ROMP synthesis and gelation properties by metal-coordination and oxidation. 2018 , 143, 212-227	19
608	Biocompatible, self-healing, highly stretchable polyacrylic acid/reduced graphene oxide nanocomposite hydrogel sensors via mussel-inspired chemistry. 2018 , 136, 63-72	196
60 7	A compliant, self-adhesive and self-healing wearable hydrogel as epidermal strain sensor. 2018 , 6, 4183-4190	117

606	Mussel-Inspired Adhesive and Conductive Hydrogel with Long-Lasting Moisture and Extreme Temperature Tolerance. 2018 , 28, 1704195	485
605	Biodegradable Nanoparticles Enhanced Adhesiveness of Mussel-Like Hydrogels at Tissue Interface. 2018 , 7, e1701069	28
604	Self-assembled adhesive biomaterials formed by a genetically designed fusion protein. 2018 , 54, 12642-1264	5 9
603	Flexible double-cross-linked cellulose-based hydrogel and aerogel membrane for supercapacitor separator. 2018 , 6, 24468-24478	61
602	The Effect of Clay Type on the Physicochemical Properties of New Hydrogel Clay Nanocomposites. 2018 ,	1
601	Zwitterionic Skins with a Wide Scope of Customizable Functionalities. <i>ACS Nano</i> , 2018 , 12, 12860-12868 16.7	96
600	Strong and tough hydrogels crosslinked by multi-functional polymer colloids. 2018 , 56, 1336-1350	37
599	A mussel-inspired polybenzoxazine containing catechol groups. 2018 , 158, 53-58	21
598	Mussel-Inspired Biomaterials for Cell and Tissue Engineering. 2018, 1077, 451-474	1
597	Rational Design of Self-Healing Tough Hydrogels: A Mini Review. 2018 , 6, 497	68
596	Polymer-Nanoparticle Interaction as a Design Principle in the Development of a Durable Ultrathin Universal Binary Antibiofilm Coating with Long-Term Activity. <i>ACS Nano</i> , 2018 , 12, 11881-11891	31
595	Tunable Adhesion for Bio-Integrated Devices. 2018 , 9,	11
594	An Autolytic High Strength Instant Adhesive Hydrogel for Emergency Self-Rescue. 2018 , 28, 1804925	69
593	Preparation of mussel-inspired injectable hydrogels based on dual-functionalized alginate with improved adhesive, self-healing, and mechanical properties. 2018 , 6, 6377-6390	64
592	Bioactive and Bioadhesive Catechol Conjugated Polymers for Tissue Regeneration. 2018, 10,	11
591	Cytocompatible chitosan based multi-network hydrogels with antimicrobial, cell anti-adhesive and mechanical properties. 2018 , 202, 246-257	71
590	Tough poly(L-DOPA)-containing Double Network Hydrogel Beads with High Capacity of Dye Adsorption. 2018 , 36, 1251-1261	13
589	Universal Coatings Based on Zwitterionic-Dopamine Copolymer Microgels. 2018 , 10, 20869-20875	32

588	Ultracompliant Hydrogel-Based Neural Interfaces Fabricated by Aqueous-Phase Microtransfer Printing. 2018 , 28, 1801059	25
587	Bioinspired multilayer membranes as potential adhesive patches for skin wound healing. 2018 , 6, 1962-1975	38
586	Poly(vinyl diaminotriazine): From Molecular Recognition to High-Strength Hydrogels. 2018, 39, e1800190	7
585	Recent Trends in Mussel-Inspired Catechol-Containing Polymers (A Review). 2018 , 34, 1153-1197	8
584	Self-assembled phosphate-polyamine networks as biocompatible supramolecular platforms to modulate cell adhesion. 2018 , 6, 2230-2247	12
583	Polyelectrolyte-based physical adhesive hydrogels with excellent mechanical properties for biomedical applications. 2018 , 6, 4799-4807	29
582	Integration of hydrogels with functional nanoparticles using hydrophobic comb-like polymers as an adhesive layer. 2018 , 6, 15147-15153	20
581	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. 2018 , 303, 1800305	10
580	Transparent, Adhesive, and Conductive Hydrogel for Soft Bioelectronics Based on Light-Transmitting Polydopamine-Doped Polypyrrole Nanofibrils. 2018 , 30, 5561-5572	211
579	Recent Developments in Tough Hydrogels for Biomedical Applications. 2018, 4,	50
578	Novel chitosan hydrogels reinforced by silver nanoparticles with ultrahigh mechanical and high antibacterial properties for accelerating wound healing. 2018 , 119, 402-412	93
577	Bioinspired pH- and Temperature-Responsive Injectable Adhesive Hydrogels with Polyplexes Promotes Skin Wound Healing. 2018 , 19, 3536-3548	66
576	The interplay between silk fibroin's structure and its adhesive properties. 2018, 4, 2815-2824	23
575	Multipurpose and Durable Adhesive Hydrogel Assisted by Adenine and Uracil from Ribonucleic Acid. 2018 , 24, 15119-15125	10
574	Highly Stretchable and Biocompatible Strain Sensors Based on Mussel-Inspired Super-Adhesive Self-Healing Hydrogels for Human Motion Monitoring. 2018 , 10, 20897-20909	265
573	Graphene Oxide Hybrid Supramolecular Hydrogels with Self-Healable, Bioadhesive and Stimuli-Responsive Properties and Drug Delivery Application. 2018 , 303, 1700660	30
572	Strategies to prevent dopamine oxidation and related cytotoxicity using various antioxidants and nitrogenation. 2019 , 2, 209-217	0
571	Advances in biomolecule inspired polymeric material decorated interfaces for biological applications. 2019 , 7, 3984-3999	13

57°	Rubidium-Containing Calcium Alginate Hydrogel for Antibacterial and Diabetic Skin Wound Healing Applications. 2019 , 5, 4726-4738	19
569	Bioadhesive functional hydrogels: Controlled release of catechol species with antioxidant and antiinflammatory behavior. 2019 , 105, 110040	29
568	Technical Applications. 2019 , 95-220	
567	Multifunctional and Recyclable Photothermally Responsive Cryogels as Efficient Platforms for Wound Healing. 2019 , 29, 1904402	98
566	Scalable Synthesis of Multifunctional Epidermis-Like Smart Coatings. 2019 , 29, 1903984	11
565	Conductive, Tough, Transparent, and Self-Healing Hydrogels Based on CatecholMetal Ion Dual Self-Catalysis. 2019 , 31, 5625-5632	124
564	Bioinspired mechanically active adhesive dressings to accelerate wound closure. 2019 , 5, eaaw3963	189
563	Mussel-Inspired Cell/Tissue-Adhesive, Hemostatic Hydrogels for Tissue Engineering Applications. 2019 , 4, 12647-12656	29
562	Wearable strain sensors based on casein-driven tough, adhesive and anti-freezing hydrogels for monitoring human-motion. 2019 , 7, 5230-5236	64
561	Soft Self-Healing Nanocomposites. 2019 , 6,	31
560	Soft Self-Healing Nanocomposites. 2019 , 6, Mussel-Inspired Tough Double Network Hydrogel As Transparent Adhesive. 2019 , 1, 2998-3007	20
560	Mussel-Inspired Tough Double Network Hydrogel As Transparent Adhesive. 2019 , 1, 2998-3007 Study on Natural Ventilation in Gridiron of High-pile Wharf to Enhance The Durability Performance.	
560 559	Mussel-Inspired Tough Double Network Hydrogel As Transparent Adhesive. 2019 , 1, 2998-3007 Study on Natural Ventilation in Gridiron of High-pile Wharf to Enhance The Durability Performance. 2019 , 304, 032083 How China Seeks to Foster an Asia-Pacific Security Community: Peace through Consultation,	
560 559 558	Mussel-Inspired Tough Double Network Hydrogel As Transparent Adhesive. 2019, 1, 2998-3007 Study on Natural Ventilation in Gridiron of High-pile Wharf to Enhance The Durability Performance. 2019, 304, 032083 How China Seeks to Foster an Asia-Pacific Security Community: Peace through Consultation, Cooperation and Co-development. 2019, 65, 395-411	20
560559558557	Mussel-Inspired Tough Double Network Hydrogel As Transparent Adhesive. 2019, 1, 2998-3007 Study on Natural Ventilation in Gridiron of High-pile Wharf to Enhance The Durability Performance. 2019, 304, 032083 How China Seeks to Foster an Asia-Pacific Security Community: Peace through Consultation, Cooperation and Co-development. 2019, 65, 395-411 Applications of Highly Stretchable and Tough Hydrogels. 2019, 11, Performance of Water-immiscible Silk Fibroin Based Hydrogel as Underwater Biomedical Adhesive.	20
560559558557556	Mussel-Inspired Tough Double Network Hydrogel As Transparent Adhesive. 2019, 1, 2998-3007 Study on Natural Ventilation in Gridiron of High-pile Wharf to Enhance The Durability Performance. 2019, 304, 032083 How China Seeks to Foster an Asia-Pacific Security Community: Peace through Consultation, Cooperation and Co-development. 2019, 65, 395-411 Applications of Highly Stretchable and Tough Hydrogels. 2019, 11, Performance of Water-immiscible Silk Fibroin Based Hydrogel as Underwater Biomedical Adhesive. 2019, 20, 2032-2041 Quaternized Chitosan-Coated Montmorillonite Interior Antimicrobial Metal-Antibiotic Coordination	20 15 6

(2019-2019)

552	Hybrid magnetic plasmon resonance induced tunable half-wave plate based on graphene-dielectric-metal structure. 2019 , 21, 105003	3
551	Antibacterial poly (ethylene glycol) diacrylate/chitosan hydrogels enhance mechanical adhesiveness and promote skin regeneration. 2019 , 225, 115110	59
550	Self-Adhesive, Self-Healable, and Triple-Responsive Hydrogel Doped with Polydopamine as an Adsorbent toward Methylene Blue. 2019 , 58, 17075-17087	24
549	A transparent, stretchable, stable, self-adhesive ionogel-based strain sensor for human motion monitoring. 2019 , 7, 11244-11250	48
548	DNA-Inspired Adhesive Hydrogels Based on the Biodegradable Polyphosphoesters Tackified by a Nucleobase. 2019 , 20, 3672-3683	13
547	Fabrication of Tough Hydrogel Composites from Photoresponsive Polymers to Show Double-Network Effect. 2019 , 11, 37139-37146	14
546	Constructing High Performance Hydrogels with Strong Underwater Adhesion through a Mussel Feet-Rock[Inspired Strategy. 2019 , 1, 2883-2889	17
545	High-Strength, Self-Adhesive, and Strain-Sensitive Chitosan/Poly(acrylic acid) Double-Network Nanocomposite Hydrogels Fabricated by Salt-Soaking Strategy for Flexible Sensors. 2019 , 11, 39228-39237	129
544	Bioinspired Nucleobase-Driven Nonswellable Adhesive and Tough Gel with Excellent Underwater Adhesion. 2019 , 11, 6644-6651	62
543	Poly(N-isopropylacrylamide)/polydopamine/clay nanocomposite hydrogels with stretchability, conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019 , 177, 149-159	33
543 542		33 163
	conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019 , 177, 149-159 Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic	
542	conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019 , 177, 149-159 Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic Sensors. 2019 , 11, 7755-7763 Self-Healing Polymeric Hydrogel Formed by Metal-Ligand Coordination Assembly: Design,	163
542 541	conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019, 177, 149-159 Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic Sensors. 2019, 11, 7755-7763 Self-Healing Polymeric Hydrogel Formed by Metal-Ligand Coordination Assembly: Design, Fabrication, and Biomedical Applications. 2019, 40, e1800837 Simple and environmentally friendly approach for preparing high-performance polyimide precursor	163 106
542 541 540	conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019, 177, 149-159 Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic Sensors. 2019, 11, 7755-7763 Self-Healing Polymeric Hydrogel Formed by Metal-Ligand Coordination Assembly: Design, Fabrication, and Biomedical Applications. 2019, 40, e1800837 Simple and environmentally friendly approach for preparing high-performance polyimide precursor hydrogel with fully aromatic structures for strain sensor. 2019, 114, 346-352 An integrated transparent, UV-filtering organohydrogel sensor via molecular-level ion conductive	163 106 10
542541540539	conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019, 177, 149-159 Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic Sensors. 2019, 11, 7755-7763 Self-Healing Polymeric Hydrogel Formed by Metal-Ligand Coordination Assembly: Design, Fabrication, and Biomedical Applications. 2019, 40, e1800837 Simple and environmentally friendly approach for preparing high-performance polyimide precursor hydrogel with fully aromatic structures for strain sensor. 2019, 114, 346-352 An integrated transparent, UV-filtering organohydrogel sensor via molecular-level ion conductive channels. 2019, 7, 4525-4535 Continuous assembly of supramolecular polyamine-phosphate networks on surfaces: preparation	163 106 10
542541540539538	conductivity, and dual light- and thermo- responsive bending and adhesive properties. 2019, 177, 149-159 Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic Sensors. 2019, 11, 7755-7763 Self-Healing Polymeric Hydrogel Formed by Metal-Ligand Coordination Assembly: Design, Fabrication, and Biomedical Applications. 2019, 40, e1800837 Simple and environmentally friendly approach for preparing high-performance polyimide precursor hydrogel with fully aromatic structures for strain sensor. 2019, 114, 346-352 An integrated transparent, UV-filtering organohydrogel sensor via molecular-level ion conductive channels. 2019, 7, 4525-4535 Continuous assembly of supramolecular polyamine-phosphate networks on surfaces: preparation and permeability properties of nanofilms. 2019, 15, 1640-1650 A Bioinspired Medical Adhesive Derived from Skin Secretion of Andrias davidianus for Wound	163106109014

534	Transparent and conductive amino acid-tackified hydrogels as wearable strain sensors. 2019 , 375, 121915	53
533	Mitochondria-Targeted Polydopamine Nanocomposite with AIE Photosensitizer for Image-Guided Photodynamic and Photothermal Tumor Ablation. 2019 , 15, e1902352	58
532	Skin-Inspired Antibacterial Conductive Hydrogels for Epidermal Sensors and Diabetic Foot Wound Dressings. 2019 , 29, 1901474	210
531	Biomimetic approach to tunable adhesion of polyurethane adhesives through Fe3+ crosslinking and hydrophobic tween units with balance of adhesion/cohesion forces. 2019 , 95, 102396	5
530	Biomimetic robust superhydrophobic stainless-steel surfaces with antimicrobial activity and molecular dynamics simulation. 2019 , 372, 852-861	28
529	Using green emitting pH-responsive nanogels to report environmental changes within hydrogels: a nanoprobe for versatile sensing. 2019 , 11, 11484-11495	7
528	Self-healing nanocomposite hydrogels based on modified cellulose nanocrystals by surface-initiated photoinduced electron transfer ATRP. 2019 , 26, 5305-5319	34
527	Development of an Injectable Tissue Adhesive Hybrid Hydrogel for Growth Factor-Free Tissue Integration in Advanced Wound Regeneration 2019 , 2, 2500-2510	14
526	Polymer Chemistries Underpinning Materials for Skin-Inspired Electronics. 2019 , 52, 3965-3974	39
525	Bioinspired self-assembled films of carboxymethyl cellulosedopamine/montmorillonite. 2019 , 7, 14033-14047	1 33
525 524	Bioinspired self-assembled films of carboxymethyl cellulosedopamine/montmorillonite. 2019, 7, 14033-14047 Amyloid-Based Injectable Hydrogel Derived from Hydrolyzed Hen Egg White Lysozyme. 2019, 4, 8071-8080	27
524	Amyloid-Based Injectable Hydrogel Derived from Hydrolyzed Hen Egg White Lysozyme. 2019 , 4, 8071-8080	27
524 523	Amyloid-Based Injectable Hydrogel Derived from Hydrolyzed Hen Egg White Lysozyme. 2019 , 4, 8071-8080 Flexible Breathable Nanomesh Electronic Devices for On-Demand Therapy. 2019 , 29, 1902127	² 7
524 523 522	Amyloid-Based Injectable Hydrogel Derived from Hydrolyzed Hen Egg White Lysozyme. 2019, 4, 8071-8080 Flexible Breathable Nanomesh Electronic Devices for On-Demand Therapy. 2019, 29, 1902127 Self-adhesive photothermal hydrogel films for solar-light assisted wound healing. 2019, 7, 3644-3651 Boron nitride nanosheet embedded bio-inspired wet adhesives with switchable adhesion and	275735
524523522521	Amyloid-Based Injectable Hydrogel Derived from Hydrolyzed Hen Egg White Lysozyme. 2019, 4, 8071-8080 Flexible Breathable Nanomesh Electronic Devices for On-Demand Therapy. 2019, 29, 1902127 Self-adhesive photothermal hydrogel films for solar-light assisted wound healing. 2019, 7, 3644-3651 Boron nitride nanosheet embedded bio-inspired wet adhesives with switchable adhesion and oxidation resistance. 2019, 7, 12266-12275 Mussel-Inspired Nanocomposite Hydrogel-Based Electrodes with Reusable and Injectable	27573519
524523522521520	Amyloid-Based Injectable Hydrogel Derived from Hydrolyzed Hen Egg White Lysozyme. 2019, 4, 8071-8080 Flexible Breathable Nanomesh Electronic Devices for On-Demand Therapy. 2019, 29, 1902127 Self-adhesive photothermal hydrogel films for solar-light assisted wound healing. 2019, 7, 3644-3651 Boron nitride nanosheet embedded bio-inspired wet adhesives with switchable adhesion and oxidation resistance. 2019, 7, 12266-12275 Mussel-Inspired Nanocomposite Hydrogel-Based Electrodes with Reusable and Injectable Properties for Human Electrophysiological Signals Detection. 2019, 7, 7918-7925 Injectable Self-Healing Antibacterial Bioactive Polypeptide-Based Hybrid Nanosystems for Efficiently Treating Multidrug Resistant Infection, Skin-Tumor Therapy, and Enhancing Wound	27 57 35 19 60

516	Development of Interfacial Nanoassembly Techniques in Functional Nanomaterials. 2019 , 51, 731-738	3
515	Damage cross-effect and anisotropy in tough double network hydrogels revealed by biaxial stretching. 2019 , 15, 3719-3732	10
514	Healing through Histidine: Bioinspired Pathways to Self-Healing Polymers via Imidazole?Metal Coordination. 2019 , 4,	36
513	Strong Wet Adhesion of Tough Transparent Nanocomposite Hydrogels for Fast Tunable Focus Lenses. 2019 , 11, 15071-15078	14
512	Plant-inspired adhesive and tough hydrogel based on Ag-Lignin nanoparticles-triggered dynamic redox catechol chemistry. 2019 , 10, 1487	376
511	Polyacryloyl hydrazide incorporation into ionic hydrogels improves toughness, elasticity, self-healability, adhesive & strain sensing properties. 2019 , 3, 690-701	14
510	A strong, tough, and osteoconductive hydroxyapatite mineralized polyacrylamide/dextran hydrogel for bone tissue regeneration. 2019 , 88, 503-513	83
509	Tough Adhesion of Nucleobase-Tackifed Gels in Diverse Solvents. 2019 , 29, 1900450	53
508	Multiple Physical Cross-Linker Strategy To Achieve Mechanically Tough and Reversible Properties of Double-Network Hydrogels in Bulk and on Surfaces. 2019 , 1, 701-713	22
507	Polydopamine modification of silk fibroin membranes significantly promotes their wound healing effect. 2019 , 7, 5232-5237	23
506	Reinforcement of Polycaprolactone/Chitosan with Nanoclay and Controlled Release of Curcumin for Wound Dressing. 2019 , 4, 22292-22301	24
505	Natural skin-inspired versatile cellulose biomimetic hydrogels. 2019 , 7, 26442-26455	132
504	An integrated self-healable and robust conductive hydrogel for dynamically self-adhesive and highly conformable electronic skin. 2019 , 7, 15208-15218	40
503	An Efficient Metal-Free Photocatalytic System with Enhanced Activity for NADH Regeneration. 2019 , 58, 23567-23573	5
502	Microneedles combined with a sticky and heatable hydrogel for local painless anesthesia. 2019 , 7, 4503-4507	3
501	Electrically conductive hydrogels for flexible energy storage systems. 2019 , 88, 220-240	154
500	Mechanically robust, ultrastretchable and thermal conducting composite hydrogel and its biomedical applications. 2019 , 360, 231-242	18
499	Bioinspired and Microgel-Tackified Adhesive Hydrogel with Rapid Self-Healing and High Stretchability. 2019 , 52, 72-80	48

498	Mussel-inspired injectable hydrogel and its counterpart for actuating proliferation and neuronal differentiation of retinal progenitor cells. 2019 , 194, 57-72	42
497	Effect of Mussel-Inspired Poly(Dopamine)-Functionalized Carbon Nanotubes/Graphene Nanohybrids on Interfacial Adhesion of Soy Protein-Based Nanocomposites. 2019 , 40, E1649-E1661	3
496	Mussel-Inspired Contact-Active Antibacterial Hydrogel with High Cell Affinity, Toughness, and Recoverability. 2019 , 29, 1805964	189
495	Mimicking Dynamic Adhesiveness and Strain-Stiffening Behavior of Biological Tissues in Tough and Self-Healable Cellulose Nanocomposite Hydrogels. 2019 , 11, 5885-5895	117
494	Mussel-inspired cotton fabric with pH-responsive superwettability for bidirectional oilwater separation. 2019 , 54, 3648-3660	8
493	A mechanically robust double-network hydrogel with high thermal responses via doping hydroxylated boron nitride nanosheets. 2019 , 54, 3368-3382	20
492	A pH-Responsive Molecularly Imprinted Hydrogel for Dexamethasone Release. 2019 , 29, 659-666	12
491	General Principle for Fabricating Natural Globular Protein-Based Double-Network Hydrogels with Integrated Highly Mechanical Properties and Surface Adhesion on Solid Surfaces. 2019 , 31, 179-189	68
490	Synthesis and properties of polyimide nanocomposite containing dopamine-modified graphene oxide. 2019 , 31, 331-340	6
489	Adhesives to empower a manipulator inspired by the chameleon tongue. 2020 , 31, 821-825	2
488	Super Bulk and Interfacial Toughness of Amylopectin Reinforced PAAm/PVA Double-Network Hydrogels via Multiple Hydrogen Bonds. 2020 , 305, 1900450	5
487	Zwitterionic electrospun PVDF fibrous membranes with a well-controlled hydration for diabetic wound recovery. 2020 , 598, 117648	28
486	The electrical performance and conductive network of reduced graphene oxide-coated ultra-high-molecular-weight polyethylene fibers through electrostatic interaction and covalent bonding. 2020 , 137, 48946	1
485	Hierarchical porous carbons from carboxylated coal-tar pitch functional poly(acrylic acid) hydrogel networks for supercapacitor electrodes 2020 , 10, 1095-1103	5
484	Modularly engineered alginate bioconjugate hydrogel as biocompatible injectable scaffold for in situ biomineralization. 2020 , 233, 115832	26
483	Polydopamine/polystyrene nanocomposite double-layer strain sensor hydrogel with mechanical, self-healing, adhesive and conductive properties. 2020 , 109, 110567	28
482	Tough polyacrylamide-tannic acid-kaolin adhesive hydrogels for quick hemostatic application. 2020 , 109, 110649	25
481	Wound dressing change facilitated by spraying zinc ions. 2020 , 7, 605-614	54

(2020-2020)

480	A dopamine-functionalized aqueous-based silk protein hydrogel bioadhesive for biomedical wound closure. 2020 , 44, 884-891	16
479	Recent progress in synthesis and application of mussel-inspired adhesives. 2020 , 12, 1307-1324	113
478	An adhesive and injectable nanocomposite hydrogel of thiolated gelatin/gelatin methacrylate/Laponite as a potential surgical sealant. 2020 , 564, 155-169	59
477	Mussel inspired bio-adhesive with multi-interactions for tissue repair. 2020 , 31, 491-503	7
476	Graphene Oxide-Templated Conductive and Redox-Active Nanosheets Incorporated Hydrogels for Adhesive Bioelectronics. 2020 , 30, 1907678	114
475	Self-healing, sensitive and antifreezing biomass nanocomposite hydrogels based on hydroxypropyl guar gum and application in flexible sensors. 2020 , 155, 1569-1577	33
474	Interfacial fatigue fracture of tissue adhesive hydrogels. 2020 , 34, 100601	15
473	Fabrication of strong hydrogen-bonding induced coacervate adhesive hydrogels with antibacterial and hemostatic activities. 2020 , 8, 1455-1463	34
472	Bioinspired tough, conductive hydrogels with thermally reversible adhesiveness based on nanoclay confined NIPAM polymerization and a dopamine modified polypeptide. 2020 , 4, 189-196	16
471	Multiple Physical Bonds to Realize Highly Tough and Self-Adhesive Double-Network Hydrogels. 2020 , 2, 1031-1042	21
470	Specialty Tough Hydrogels and Their Biomedical Applications. 2020 , 9, e1901396	53
469	Incorporation of dumbbell-shaped and Y-shaped cross-linkers in adjustable pullulan/polydopamine hydrogels for selective adsorption of cationic dyes. 2020 , 182, 109010	22
468	Arginine derivatives assist dopamine-hyaluronic acid hybrid hydrogels to have enhanced antioxidant activity for wound healing. 2020 , 392, 123775	94
467	One-component waterborne in vivo cross-linkable polysiloxane coatings for artificial skin. 2020 , 108, 1725-1737	5
466	Protein and Hydrophobic Association-Regulated Hydrogels with Adhesive Adjustability in Different Materials. 2020 , 7, 1901541	5
465	High-Performance Flexible Sensors of Self-Healing, Reversibly Adhesive, and Stretchable Hydrogels for Monitoring Large and Subtle Strains. 2020 , 305, 1900621	13
464	Composite Tissue Adhesive Containing Catechol-Modified Hyaluronic Acid and Poly-l-lysine 2020 , 3, 628-638	10
463	Dynamic-Covalent Hydrogel with NIR-Triggered Drug Delivery for Localized Chemo-Photothermal Combination Therapy. 2020 , 21, 556-565	26

 $_{462}$ Fabrication and Mechanical Properties of Engineered Protein-Based Adhesives and Fibers. **2020**, 32, e1906360 $_{53}$

461	Design and Fabrication of Highly Stretchable and Tough Hydrogels. 2020 , 60, 420-441	13
460	Mussel-Inspired Flexible, Wearable, and Self-Adhesive Conductive Hydrogels for Strain Sensors. 2020 , 41, e1900450	49
459	PVA/Agar Interpenetrating Network Hydrogel with Fast Healing, High Strength, Antifreeze, and Water Retention. 2020 , 221, 2000237	10
458	Conductive cellulose nanofibrils-reinforced hydrogels with synergetic strength, toughness, self-adhesion, flexibility and adjustable strain responsiveness. 2020 , 250, 117010	26
457	Preparation of novel stable microbicidal hydrogel films as potential wound dressing. 2020 , 181, 109349	7
456	Bioinspired tissue-compliant hydrogels with multifunctions for synergistic surgery-photothermal therapy. 2020 , 8, 10117-10125	6
455	A novel Pd decorated polydopamine-SiO2/PVA electrospun nanofiber membrane for highly efficient degradation of organic dyes and removal of organic chemicals and oils. 2020 , 275, 122937	16
454	Antiswelling and Durable Adhesion Biodegradable Hydrogels for Tissue Repairs and Strain Sensors. 2020 , 36, 10448-10459	20
453	Bioinspired Lignin-Polydopamine Nanocapsules with Strong Bioadhesion for Long-Acting and High-Performance Natural Sunscreens. 2020 , 21, 3231-3241	27
452	Nanoscale Organization and Functional Analysis of Carnivorous Plant Mucilage by Atomic Force Microscopy. 2020 , 19, 579-593	2
451	The two facets of the synergic effect of amine cation and catechol on the adhesion of catechol in underwater conditions. 2020 , 530, 146973	10
450	Progress in hydrogels for sensing applications: a review. 2020 , 17, 100317	29
449	Mussel-Inspired Self-Adhesive, Antidrying, and Antifreezing Poly(acrylic acid)/Bentonite/Polydopamine Hybrid Glycerol-Hydrogel and the Sensing Application. 2020 , 2, 3094-3106	21
448	Mussel-Inspired Biocompatible PAADOPA/PAAm Hydrogel Adhesive for Amoxicillin Delivery. 2020 , 59, 13556-13563	3
447	Seeking Answers from Tradition: Facile Preparation of Durable Adhesive Hydrogel Using Natural Quercetin. 2020 , 23, 101342	2
446	Mussel-Inspired Adhesive Double-Network Hydrogel for Intraoral Ultrasound Imaging 2020 , 3, 8943-8952	4
445	Ultrastretchable, Tough, Antifreezing, and Conductive Cellulose Hydrogel for Wearable Strain Sensor. 2020 , 12, 53247-53256	33

(2020-2020)

444	Applications of Polydopamine-Modified Scaffolds in the Peripheral Nerve Tissue Engineering. 2020 , 8, 590998	16
443	Biodegradable conductive multifunctional branched poly(glycerol-amino acid)-based scaffolds for tumor/infection-impaired skin multimodal therapy. 2020 , 262, 120300	10
442	Melanin and Melanin-Like Hybrid Materials in Regenerative Medicine. 2020 , 10,	15
441	Biomaterial surface modification for underwater adhesion. 2020 , 1, 77-91	26
440	Self-healing Polyol/Borax Hydrogels: Fabrications, Properties and Applications. 2020, 20, 1142-1162	18
439	Nanocomposite hydrogel films and coatings Features and applications. 2020 , 20, 100776	20
438	Catechol modified quaternized chitosan enhanced wet adhesive and antibacterial properties of injectable thermo-sensitive hydrogel for wound healing. 2020 , 249, 116826	39
437	Unconventional Device and Material Approaches for Monolithic Biointegration of Implantable Sensors and Wearable Electronics. 2020 , 5, 2000407	23
436	. 2020,	2
435	Liquid Bandage Harvests Robust Adhesive, Hemostatic, and Antibacterial Performances as a First-Aid Tissue Adhesive. 2020 , 30, 2001820	51
434	Research status of self-healing hydrogel for wound management: A review. 2020 , 164, 2108-2123	44
433	Macroscopic Self-Assembly of Gel-Based Microfibers toward Functional Nonwoven Fabrics. 2020 , 12, 50823-50833	3
432	Fabrication of a Surface Adhesion Layer for Hydrogel Sensors via Photografting. 2020 , 2, 4140-4148	7
431	Ctenophore-inspired hydrogels for efficient and repeatable underwater specific adhesion to biotic surfaces. 2020 , 7, 2651-2661	46
430	Recent Progress of Highly Adhesive Hydrogels as Wound Dressings. 2020 , 21, 3966-3983	41
429	Nonleaching antimicrobial poly(vinyl alcohol)/polyhexamethylene guanidine hydrochloride hydrogels reinforced by hydrogen bond. 2020 , 31, 3238-3246	2
428	Strategies for Using Polydopamine to Induce Biomineralization of Hydroxyapatite on Implant Materials for Bone Tissue Engineering. 2020 , 21,	14
427	Hybrid double-network hydrogels with excellent mechanical properties. 2020 , 44, 16569-16576	7

426	Dopamine enhances the mechanical and biological properties of enzyme-induced mineralized hydrogels. 2020 , 8, 9052-9061		4
425	A Janus Hydrogel Wet Adhesive for Internal Tissue Repair and Anti-Postoperative Adhesion. 2020 , 30, 2005689		79
424	Adhesive Hydrogel Patch with Enhanced Strength and Adhesiveness to Skin for Transdermal Drug Delivery. 2020 , 30, 2004407		54
423	Mussel-Inspired Redox-Active and Hydrophilic Conductive Polymer Nanoparticles for Adhesive Hydrogel Bioelectronics. 2020 , 12, 169		41
422	Elytra-Mimetic Aligned Composites with Air-Water-Responsive Self-Healing and Self-Growing Capability. <i>ACS Nano</i> , 2020 , 14, 12546-12557	16.7	5
421	Degradable self-adhesive epidermal sensors prepared from conductive nanocomposite hydrogel. 2020 , 12, 18771-18781		18
420	Preparation of a Multifunctional Wound Dressing Based on a Natural Deep Eutectic Solvent. 2020 , 8, 14243-14252		5
419	Robust and conductive hydrogel based on mussel adhesive chemistry for remote monitoring of body signals. 2020 , 1		1
418	The new generation of soft and wearable electronics for health monitoring in varying environment: From normal to extreme conditions. 2020 , 41, 219-242		48
	Patienal Design of Mussel Inspired Hydrogole with Dynamic Catesholate Metal Coordination		
417	Rational Design of Mussel-Inspired Hydrogels with Dynamic Catecholato-Metal Coordination Bonds. 2020 , 41, e2000439		9
417			3
	Bonds. 2020 , 41, e2000439		
416	Bonds. 2020, 41, e2000439 Fast near infrared light response hydrogel as medical dressing for wound healing. 2020, 137, 49309 An anti-infective hydrogel adhesive with non-swelling and robust mechanical properties for		3
416 415	Fast near infrared light response hydrogel as medical dressing for wound healing. 2020 , 137, 49309 An anti-infective hydrogel adhesive with non-swelling and robust mechanical properties for sutureless wound closure. 2020 , 8, 5682-5693		3
416 415 414	Fast near infrared light response hydrogel as medical dressing for wound healing. 2020, 137, 49309 An anti-infective hydrogel adhesive with non-swelling and robust mechanical properties for sutureless wound closure. 2020, 8, 5682-5693 Mussel-inspired hydrogels: from design principles to promising applications. 2020, 49, 3605-3637 Coaxial mussel-inspired biofibers: making of a robust and efficacious depot for cancer drug		3 14 153
416 415 414 413	Fast near infrared light response hydrogel as medical dressing for wound healing. 2020, 137, 49309 An anti-infective hydrogel adhesive with non-swelling and robust mechanical properties for sutureless wound closure. 2020, 8, 5682-5693 Mussel-inspired hydrogels: from design principles to promising applications. 2020, 49, 3605-3637 Coaxial mussel-inspired biofibers: making of a robust and efficacious depot for cancer drug delivery. 2020, 8, 5064-5079 A nucleobase-inspired super adhesive hydrogel with desirable mechanical, tough and fatigue		3 14 153
416 415 414 413 412	Fast near infrared light response hydrogel as medical dressing for wound healing. 2020, 137, 49309 An anti-infective hydrogel adhesive with non-swelling and robust mechanical properties for sutureless wound closure. 2020, 8, 5682-5693 Mussel-inspired hydrogels: from design principles to promising applications. 2020, 49, 3605-3637 Coaxial mussel-inspired biofibers: making of a robust and efficacious depot for cancer drug delivery. 2020, 8, 5064-5079 A nucleobase-inspired super adhesive hydrogel with desirable mechanical, tough and fatigue resistant properties based on cytosine and Etaprolactone. 2020, 133, 109741 Mussel-inspired sandwich-like nanofibers/hydrogel composite with super adhesive, sustained drug		3 14 153 10

(2020-2020)

408	An Antifreezing/Antiheating Hydrogel Containing Catechol Derivative Urushiol for Strong Wet Adhesion to Various Substrates. 2020 , 12, 32031-32040	37
407	Intrinsically stretchable electrode array enabled in vivo electrophysiological mapping of atrial fibrillation at cellular resolution. 2020 , 117, 14769-14778	50
406	Composite Hydrogels in Three-Dimensional Models. 2020 , 8, 611	28
405	Clearance of methylene blue by CdS enhanced composite hydrogel materials. 2020 , 1-12	3
404	Ultrafast gelling using sulfonated lignin-Fe3+ chelates to produce dynamic crosslinked hydrogel/coating with charming stretchable, conductive, self-healing, and ultraviolet-blocking properties. 2020 , 396, 125341	64
403	A facile strategy for fabricating multifunctional ionogel based electronic skin. 2020 , 8, 8368-8373	29
402	Recent advancements in self-healing polymeric hydrogels, shape memory, and stretchable materials. 2020 , 1-26	12
401	Polymer nanocomposite meshes for flexible electronic devices. 2020 , 107, 101279	44
400	Supramolecular Hydrogels Based on Nanoclay and Guanidine-Rich Chitosan: Injectable and Moldable Osteoinductive Carriers. 2020 , 12, 16088-16096	22
399	Highly Transparent, Self-Healable, and Adhesive Organogels for Bio-Inspired Intelligent Ionic Skins. 2020 , 12, 15657-15666	53
398	A multifunctional nanocomposite spray dressing of Kappa-carrageenan-polydopamine modified ZnO/L-glutamic acid for diabetic wounds. 2020 , 111, 110837	24
397	Nanoclay-functionalized 3D nanofibrous scaffolds promote bone regeneration. 2020 , 8, 3842-3851	16
396	Temperature/near-infrared light-responsive conductive hydrogels for controlled drug release and real-time monitoring. 2020 , 12, 8679-8686	24
395	Robust Physically Linked Double-Network Ionogel as a Flexible Bimodal Sensor. 2020 , 12, 14272-14279	59
394	The Potential of Electrospinning/Electrospraying Technology in the Rational Design of Hydrogel Structures. 2020 , 305, 2000285	15
393	A high-strength double network polydopamine nanocomposite hydrogel for adhesion under seawater. 2020 , 8, 8232-8241	20
392	Prevention and Treatment of Skin Damage Caused by Personal Protective Equipment: Experience of the First-Line Clinicians Treating 2019-nCoV Infection. 2020 , 3,	20
391	Bioinspired hybrid patches with self-adhesive hydrogel and piezoelectric nanogenerator for promoting skin wound healing. 2020 , 13, 2525-2533	34

390	Hydrogels. 2020 , 203-244	6
389	Modified Ti3C2TX (MXene) nanosheet-catalyzed self-assembled, anti-aggregated, ultra-stretchable, conductive hydrogels for wearable bioelectronics. 2020 , 401, 126129	48
388	REGENERACIN DEL RGANO CUTNEO MEDIANTE INGENIERA DE TEJIDOS. 2020, 67-95	
387	Copolymer/Clay Nanocomposites for Biomedical Applications. 2020 , 30, 1908101	56
386	Bioinspired Double-Dynamic-Bond Crosslinked Bioadhesive Enables Post-Wound Closure Care. 2020 , 30, 2000130	60
385	Recent Advances in Mechano-Responsive Hydrogels for Biomedical Applications. 2020 , 2, 1092-1107	27
384	Mussel-Inspired Naturally Derived Double-Network Hydrogels and Their Application in 3D Printing: From Soft, Injectable Bioadhesives to Mechanically Strong Hydrogels. 2020 , 6, 1798-1808	16
383	Catechol-functionalized hydrogels: biomimetic design, adhesion mechanism, and biomedical applications. 2020 , 49, 433-464	235
382	Elastic, Persistently Moisture-Retentive, and Wearable Biomimetic Film Inspired by Fetal Scarless Repair for Promoting Skin Wound Healing. 2020 , 12, 5542-5556	17
381	A self-healing, robust adhesion, multiple stimuli-response hydrogel for flexible sensors. 2020 , 16, 2238-2248	22
381 380	A self-healing, robust adhesion, multiple stimuli-response hydrogel for flexible sensors. 2020 , 16, 2238-2248 Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. 2020 , 7, 1872-1882	138
	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless	
380	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. 2020 , 7, 1872-1882 Effect of molecular weight and polymer composition on gallol-functionalized underwater adhesive.	138
380 379	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. 2020, 7, 1872-1882 Effect of molecular weight and polymer composition on gallol-functionalized underwater adhesive. 2020, 8, 6798-6801 Skin-inspired cellulose conductive hydrogels with integrated self-healing, strain, and thermal	138
380 379 378	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. 2020, 7, 1872-1882 Effect of molecular weight and polymer composition on gallol-functionalized underwater adhesive. 2020, 8, 6798-6801 Skin-inspired cellulose conductive hydrogels with integrated self-healing, strain, and thermal sensitive performance. 2020, 240, 116360 Antibacterial, Self-Adhesive, Recyclable, and Tough Conductive Composite Hydrogels for	138 13 40
380 379 378 377	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. 2020, 7, 1872-1882 Effect of molecular weight and polymer composition on gallol-functionalized underwater adhesive. 2020, 8, 6798-6801 Skin-inspired cellulose conductive hydrogels with integrated self-healing, strain, and thermal sensitive performance. 2020, 240, 116360 Antibacterial, Self-Adhesive, Recyclable, and Tough Conductive Composite Hydrogels for Ultrasensitive Strain Sensing. 2020, 12, 22225-22236	138 13 40 52
380 379 378 377	Stretchable, self-healing and tissue-adhesive zwitterionic hydrogels as strain sensors for wireless monitoring of organ motions. 2020, 7, 1872-1882 Effect of molecular weight and polymer composition on gallol-functionalized underwater adhesive. 2020, 8, 6798-6801 Skin-inspired cellulose conductive hydrogels with integrated self-healing, strain, and thermal sensitive performance. 2020, 240, 116360 Antibacterial, Self-Adhesive, Recyclable, and Tough Conductive Composite Hydrogels for Ultrasensitive Strain Sensing. 2020, 12, 22225-22236 Mussel-Inspired Hydrogels for Self-Adhesive Bioelectronics. 2020, 30, 1909954 Wet-adhesive, haemostatic and antimicrobial bilayered composite nanosheets for sealing and	138 13 40 52 127

(2021-2020)

372	1 oughening by Nanodropiets: Polymeruropiet Biocomposite with Anomalous Toughness. 2020 , 53, 4568-4576	12
371	Bacteria activated-macrophage membrane-coated tough nanocomposite hydrogel with targeted photothermal antibacterial ability for infected wound healing. 2021 , 420, 127638	16
370	Effect of gas-condensed phase synergistic system of 9,10-dihydro-9-oxo-10-phosphaphenanthrene-10-oxide and polydopamine on flame retardancy of epoxy resin. 2021 , 138, 49698	7
369	How to Increase Adhesion Strength of Catechol Polymers to Wet Inorganic Surfaces. 2021 , 22, 183-189	1
368	A rose bengal/graphene oxide/PVA hybrid hydrogel with enhanced mechanical properties and light-triggered antibacterial activity for wound treatment. 2021 , 118, 111447	23
367	A Highly-Adhesive and Self-Healing Elastomer for Bio-Interfacial Electrode. 2021 , 31, 2006432	40
366	Nanocomposite adhesive hydrogels: from design to application. 2021 , 9, 585-593	14
365	Mussel-inspired double cross-linked hydrogels with desirable mechanical properties, strong tissue-adhesiveness, self-healing properties and antibacterial properties. 2021 , 120, 111690	7
364	A simple hydrogel scaffold with injectability, adhesivity and osteogenic activity for bone regeneration. 2021 , 9, 960-972	7
363	Biomolecule-assisted synthesis of biomimetic nanocomposite hydrogel for hemostatic and wound healing applications. 2021 , 23, 629-669	26
362	Mussel foot protein inspired tough tissue-selective underwater adhesive hydrogel. 2021, 8, 997-1007	47
361	Tough hybrid microgel-reinforced hydrogels dependent on the size and modulus of the microgels. 2021 , 17, 1566-1573	3
360	Bio-inspired fabrication of highly permeable and anti-fouling ultrafiltration membranes based on bacterial cellulose for efficient removal of soluble dyes and insoluble oils. 2021 , 621, 118982	13
359	3D Printing of Strong and Tough Double Network Granular Hydrogels. 2021 , 31, 2005929	31
358	Ultrastretchable, self-adhesive, strain-sensitive and self-healing GO@DA/Alginate/P(AAc-co-AAm) multifunctional hydrogels via mussel-inspired chemistry. 2021 , 254, 117316	12
357	Amelioration of imiquimod-induced psoriasis-like dermatitis in mice by DSW therapy inspired hydrogel. 2021 , 6, 299-311	6
356	Adhesive and tough hydrogels: from structural design to applications. 2021 , 9, 5954-5966	6
355	Molecularly Smooth and Conformal Nanocoating by Amine-Mediated Redox Modulation of Catechol. 2021 , 33, 952-965	2

354	A comparative study of tough hydrogen bonding dissipating hydrogels made with different network structures. 2021 , 3, 2934-2947	4
353	Strategic Advances in Spatiotemporal Control of Bioinspired Phenolic Chemistries in Materials Science. 2021 , 31, 2008821	9
352	Dopamine/zinc oxide doped poly(-hydroxyethyl acrylamide)/agar dual network hydrogel with super self-healing, antibacterial and tissue adhesion functions designed for transdermal patch. 2021 , 9, 5492-5502	5
351	Phenolic-enabled nanotechnology: versatile particle engineering for biomedicine. 2021 , 50, 4432-4483	58
350	Hydrogel: Diversity of Structures and Applications in Food Science. 2021, 37, 313-372	20
349	Underwater Adhesive HPMC/SiW-PDMAEMA/Fe3+ Hydrogel with Self-Healing, Conductive, and Reversible Adhesive Properties. 2021 , 3, 837-846	13
348	Ultra-stretchable, self-adhesive, transparent, and ionic conductive organohydrogel for flexible sensor. 2021 , 9, 011101	9
347	Tissue adhesive hydrogel bioelectronics. 2021 , 9, 4423-4443	39
346	Bioinspired pressure-sensitive adhesive: evaluation of the effect of dopamine methacrylamide comonomer as a general property modifier using molecular dynamics simulation 2021 , 11, 20557-20569	1
345	A tough, adhesive, self-healable, and antibacterial plant-inspired hydrogel based on pyrogallol-borax dynamic cross-linking. 2021 , 9, 4230-4240	9
344	A highly sensitive strain sensor based on a silica@polyaniline core-shell particle reinforced hydrogel with excellent flexibility, stretchability, toughness and conductivity. 2021 , 17, 2142-2150	11
343	Mussel-inspired hydrogels as tough, self-adhesive and conductive bioelectronics: a review. 2021 , 17, 8786-8804	3
342	Hydrogels for sensing applications. 2021,	
341	Bio-Based Hotmelt Adhesives with Well-Adhesion in Water. 2021 , 13,	2
340	Injectable Self-Healing Adhesive pH-Responsive Hydrogels Accelerate Gastric Hemostasis and Wound Healing. 2021 , 13, 80	40
339	Poly(vinyl alcohol) Hydrogels with Broad-Range Tunable Mechanical Properties via the Hofmeister Effect. 2021 , 33, e2007829	79
338	Ultra-Conformable Ionic Skin with Multi-Modal Sensing, Broad-Spectrum Antimicrobial and Regenerative Capabilities for Smart and Expedited Wound Care. 2021 , 8, 2004627	25
337	A Multifunctional, Self-Healing, Self-Adhesive, and Conductive Sodium Alginate/Poly(vinyl alcohol) Composite Hydrogel as a Flexible Strain Sensor. 2021 , 13, 11344-11355	56

336	Multifunctional hydrogels for wound healing: Special focus on biomacromolecular based hydrogels. 2021 , 170, 728-750	37
335	Green Tea Derivative Driven Smart Hydrogels with Desired Functions for Chronic Diabetic Wound Treatment. 2021 , 31, 2009442	67
334	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. 2021 , 13, 9748-9761	26
333	Injectable and Biocompatible Mussel-Inspired Adhesive for Enhanced Reendothelialization of Injured Artery. 2021 , 8, 2001955	2
332	Molecular design, synthesis strategies and recent advances of hydrogels for wound dressing applications. 2021 , 30, 308-320	6
331	A Mussel-Inspired Antibacterial Hydrogel with High Cell Affinity, Toughness, Self-Healing, and Recycling Properties for Wound Healing. 2021 , 9, 3070-3082	16
330	Melanin-Inspired Conductive Hydrogel Sensors with Ultrahigh Stretchable, Self-Healing, and Photothermal Capacities. 2021 , 3, 1899-1911	12
329	A review on recent advances in gel adhesion and their potential applications. 2021 , 325, 115254	15
328	Supplementary Networking of Interpenetrating Polymer System (SNIPSy) Strategy to Develop Strong & High Water Content Ionic Hydrogels for Solid Electrolyte Applications. 2021 , 31, 2100251	8
327	Overall Structure Construction of an Intervertebral Disk Based on Highly Anisotropic Wood Hydrogel Composite Materials with Mechanical Matching and Buckling Buffering. 2021 , 13, 15709-15719	5
326	A plant-inspired long-lasting adhesive bilayer nanocomposite hydrogel based on redox-active Ag/Tannic acid-Cellulose nanofibers. 2021 , 255, 117508	30
325	Highly Stretchable, Adhesive, Biocompatible, and Antibacterial Hydrogel Dressings for Wound Healing. 2021 , 8, 2003627	91
324	Mussel-inspired polymer materials derived from nonphytogenic and phytogenic catechol derivatives and their applications. 2021 , 70, 1209-1224	3
323	Recent Advances in Injectable Dual Crosslinking Hydrogels for Biomedical Applications. 2021 , 21, e2100109	8
322	Self-Adhesive, Stretchable, Biocompatible, and Conductive Nonvolatile Eutectogels as Wearable Conformal Strain and Pressure Sensors and Biopotential Electrodes for Precise Health Monitoring. 2021 , 13, 20735-20745	17
321	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. 2021 , 121, 4309-4372	145
320	A biocompatible and pH-responsive nanohydrogel based on cellulose nanocrystal for enhanced toxic reactive oxygen species generation. 2021 , 258, 117685	18
319	Development of bioresorbable smart injectable hydrogels based on thermo-responsive copolymer integrated bovine serum albumin bioconjugates for accelerated healing of excisional wounds. 2021 , 96, 345-355	8

318	Recent advances in wet adhesives: Adhesion mechanism, design principle and applications. 2021 , 116, 101388	85
317	Soft Electronic Materials with Combinatorial Properties Generated Mussel-Inspired Chemistry and Halloysite Nanotube Reinforcement. <i>ACS Nano</i> , 2021 , 15, 9531-9549	10
316	Smart Asymmetric Hydrogel with Integrated Multi-Functions of NIR-Triggered Tunable Adhesion, Self-Deformation, and Bacterial Eradication. 2021 , 10, e2100784	27
315	Recent progress in polymer hydrogel bioadhesives. 2021 , 59, 1312-1337	23
314	Flexible Polydopamine Bioelectronics. 2021 , 31, 2103391	29
313	Mussel-Inspired, Injectable Polyurethane Tissue Adhesives Demonstrate In Situ Gel Formation under Mild Conditions 2021 , 4, 5352-5361	2
312	A green all-polysaccharide hydrogel platform for sensing and electricity harvesting/storage. 2021 , 493, 229711	10
311	Anti-freezing and antibacterial conductive organohydrogel co-reinforced by 1D silk nanofibers and 2D graphitic carbon nitride nanosheets as flexible sensor. 2021 , 411, 128470	27
310	Surfactin-reinforced gelatin methacrylate hydrogel accelerates diabetic wound healing by regulating the macrophage polarization and promoting angiogenesis. 2021 , 414, 128836	14
309	Ultrafast self-gelling powder mediates robust wet adhesion to promote healing of gastrointestinal perforations. 2021 , 7,	26
308	Metal cation-ligand interaction modulated mono-network ionic conductive hydrogel for wearable strain sensor. 2021 , 56, 14531-14541	0
307	Lignin and cellulose derivatives-induced hydrogel with asymmetrical adhesion, strength, and electriferous properties for wearable bioelectrodes and self-powered sensors. 2021 , 414, 128903	32
306	Mussel-inspired adhesive and polypeptide-based antibacterial thermo-sensitive hydroxybutyl chitosan hydrogel as BMSCs 3D culture matrix for wound healing. 2021 , 261, 117878	16
305	Implantable coaxial nanocomposite biofibers for local chemo-photothermal combinational cancer therapy.	2
304	Wearable lignin-based hydrogel electronics: A mini-review. 2021 , 181, 45-50	23
303	Elastin-Plasma Hybrid Hydrogels for Skin Tissue Engineering. 2021 , 13,	3
302	Poly(ionic liquid)s Containing Alkoxy Chains and Bis(trifluoromethanesulfonyl)imide Anions as Highly Adhesive Materials. 2021 , 33, e2100962	23
301	Flexible Osteogenic Glue as an All-In-One Solution to Assist Fracture Fixation and Healing. 2021 , 31, 2102465	8

300	Facile strategy of mussel-inspired polymer as a high-performance dry/wet adhesive. 2021 , 308, 127309	7
299	Biomimetic Glucose Trigger-Insulin Release System Based on Hydrogel Loading Bidentate ECyclodextrin. 2021 , 31, 2104488	4
298	Adhesive Tissue Engineered Scaffolds: Mechanisms and Applications. 2021 , 9, 683079	4
297	Nature-inspired self-powered cellulose nanofibrils hydrogels with high sensitivity and mechanical adaptability. 2021 , 264, 117995	15
296	Strong, Removable, and Photoluminescent Hyperbranched Polyamide-amine Hot Melt Adhesive. 2021 , 39, 1319-1327	3
295	Functional Hydrogels as Wound Dressing to Enhance Wound Healing. ACS Nano, 2021, 16.7	2 10
294	Highly Stretchable Nanocomposite Hydrogels with Outstanding Antifatigue Fracture Based on Robust Noncovalent Interactions for Wound Healing. 2021 , 33, 6453-6463	8
293	Burgeoning hydrogel technology in burn wound care: A comprehensive meta-analysis. 2021 , 157, 110640	Ο
292	Self-healing Hydrogels and Underlying Reversible Intermolecular Interactions. 2021 , 39, 1246-1261	4
291	Biodegradable polymer hydrogel-based tissue adhesives: A´review. 2021 , 7, 163	1
291	Biodegradable polymer hydrogel-based tissue adhesives: A´review. 2021, 7, 163 Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. 2021, 13, 42052-42062	8
	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular	
290	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. 2021 , 13, 42052-42062 A tough polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage	8
290	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. 2021, 13, 42052-42062 A tough polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage tissue regeneration in rabbits. 2021, 418, 129277 Bio-inspired hydrogel-based bandage with robust adhesive and antibacterial abilities for skin	8
290 289 288	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. 2021, 13, 42052-42062 A tough polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage tissue regeneration in rabbits. 2021, 418, 129277 Bio-inspired hydrogel-based bandage with robust adhesive and antibacterial abilities for skin closure. 2021, 1-9 Bioinspired hyperbranched protein adhesive based on boronic acid-functionalized cellulose	8 11 3
290 289 288 287	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. 2021, 13, 42052-42062 A tough polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage tissue regeneration in rabbits. 2021, 418, 129277 Bio-inspired hydrogel-based bandage with robust adhesive and antibacterial abilities for skin closure. 2021, 1-9 Bioinspired hyperbranched protein adhesive based on boronic acid-functionalized cellulose nanofibril and water-soluble polyester. 2021, 219, 108943 Low-Molecular-Weight Supramolecular-Polymer Double-Network Eutectogels for Self-Adhesive	8 11 3 10
290 289 288 287 286	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. 2021, 13, 42052-42062 A tough polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage tissue regeneration in rabbits. 2021, 418, 129277 Bio-inspired hydrogel-based bandage with robust adhesive and antibacterial abilities for skin closure. 2021, 1-9 Bioinspired hyperbranched protein adhesive based on boronic acid-functionalized cellulose nanofibril and water-soluble polyester. 2021, 219, 108943 Low-Molecular-Weight Supramolecular-Polymer Double-Network Eutectogels for Self-Adhesive and Bidirectional Sensors. 2021, 31, 2104963 Tough thermosensitive hydrogel with excellent adhesion to low-energy surface developed via	8 11 3 10

282	Functional composite hydrogels entrapping polydopamine hollow nanoparticles for highly efficient resistance of skin penetration and photoprotection. 2021 , 128, 112346	1
281	Eradication of Mature Bacterial Biofilms with Concurrent Improvement in Chronic Wound Healing Using Silver Nanoparticle Hydrogel Treatment. 2021 , 9,	8
280	Preparation of lignosulfonate ionic hydrogels for supercapacitors, sensors and dye adsorbent applications. 2021 , 187, 189-199	9
279	Mussel-inspired nanozyme catalyzed conductive and self-setting hydrogel for adhesive and antibacterial bioelectronics. 2021 , 6, 2676-2687	45
278	Applications of Bioadhesives: A Mini Review. 2021 , 9, 716035	5
277	Antiliquid-Interfering, Antibacteria, and Adhesive Wearable Strain Sensor Based on Superhydrophobic and Conductive Composite Hydrogel. 2021 , 13, 46022-46032	11
276	Chitosan-driven skin-attachable hydrogel sensors toward human motion and physiological signal monitoring. 2021 , 268, 118240	19
275	Physiologically-Regulated Adhesion of Hydrogels for Wound Dressing. 2021 , 8, 2101131	5
274	Transforming natural silk nonwovens into robust bioadhesives for in vivo tissue amendment. 2021 , 314, 127996	2
273	A novel self-healing polydopamine-functionalized chitosan-arginine hydrogel with enhanced angiogenic and antibacterial activities for accelerating skin wound healing. 2021 , 420, 130302	17
272	Mechanisms and applications of bioinspired underwater/wet adhesives.	11
271	Performance of Polydopamine Complex and Mechanisms in Wound Healing. 2021 , 22,	6
270	Hypoxia-mimicking 3D bioglass-nanoclay scaffolds promote endogenous bone regeneration. 2021 , 6, 3485-3495	14
269	Highly-toughened PVA/nanocellulose hydrogels with anti-oxidative and antibacterial properties triggered by lignin-Ag nanoparticles. 2021 , 129, 112385	11
268	A biomimetic skin-like sensor with multiple sensory capabilities based on hybrid ionogel. 2021 , 330, 112855	3
267	Urushiol-resourced dopamine analogue as a trigger to construct clay-hexacyanoferrate hydrogel for cesium removal. 2021 , 9, 106140	1
266	Biomimetic nanocomposite hydrogel networks for robust wet adhesion to tissues. 2021 , 222, 109071	10
265	Agarose oligosaccharide- silver nanoparticle- antimicrobial peptide- composite for wound dressing. 2021 , 269, 118258	4

264	Biodegradable polyacrylate copolymer coating for bio-functional magnesium alloy. 2021 , 159, 106422	1
263	An excellent antibacterial and high self-adhesive hydrogel can promote wound fully healing driven by its shrinkage under NIR. 2021 , 129, 112395	6
262	A polyethersulfone composite ultrafiltration membrane with the in-situ generation of CdS nanoparticles for the effective removal of organic pollutants and photocatalytic self-cleaning. 2021 , 638, 119715	6
261	Cationic peptide-based salt-responsive antibacterial hydrogel dressings for wound healing. 2021 , 190, 754-762	3
260	Adhesive, self-healing, conductive Janus gel with oil-water responsiveness. 2021 , 207, 112028	0
259	An in situ catechol functionalized Epolylysine/polyacrylamide hydrogel formed by hydrogen bonding recombination with high mechanical property for hemostasis. 2021 , 191, 714-726	4
258	Lignin nanofiller-reinforced composites hydrogels with long-lasting adhesiveness, toughness, excellent self-healing, conducting, ultraviolet-blocking and antibacterial properties. 2021 , 225, 109316	10
257	Highly flexible and adhesive poly(vinyl alcohol)/poly(acrylic amide-co-2-acrylamido-2-methylpropane sulfonic acid)/glycerin hydrogel electrolyte for stretchable and resumable supercapacitor. 2021 , 425, 131505	5
256	Tissue-adhesive, stretchable, and self-healable hydrogels based on carboxymethyl cellulose-dopamine/PEDOT:PSS via mussel-inspired chemistry for bioelectronic applications. 2021 , 426, 130847	15
255	Super-adsorbent poly(acrylic acid)/laponite hydrogel with ultrahigh mechanical property for adsorption of methylene blue. 2021 , 9, 106346	9
254	Biodegradable dual-crosslinked adhesive glue for fixation and promotion of osteogenesis. 2022 , 427, 132000	6
253	Self-adhesive, biodegradable silk-based dry electrodes for epidermal electrophysiological monitoring. 2022 , 427, 131999	2
252	Mechanically-reinforced and highly adhesive decellularized tissue-derived hydrogel for efficient tissue repair. 2022 , 427, 130926	6
251	Mussel-inspired self-adhesive hydrogels by conducting free radical polymerization in both aqueous phase and micelle phase and their applications in flexible sensors. 2022 , 607, 431-439	8
250	3D hollow-structured hydrogels with editable macrostructure, function, and mechanical properties induced by segmented adjustments 2021 , 11, 26876-26882	
249	A fast self-healing multifunctional polyvinyl alcohol nano-organic composite hydrogel as a building block for highly sensitive strain/pressure sensors.	11
248	Polydopamine grafted cross-linked polyacrylamide as robust binder for SiO/C anode toward high-stability lithium-ion battery. 2021 , 56, 6337-6348	2
247	Recent developments in mussel-inspired materials for biomedical applications. 2021 , 9, 6653-6672	8

246	Dopamine-Triggered Hydrogels with High Transparency, Self-Adhesion, and Thermoresponse as Skinlike Sensors. <i>ACS Nano</i> , 2021 , 15, 1785-1794	63
245	Beach to Bench to Bedside: Marine Invertebrate Biochemical Adaptations and Their Applications in Biotechnology and Biomedicine. 2018 , 65, 359-376	1
244	Synthesis and stability against oxidation of random brush copolymers carrying PEO side chains and catechol moieties. 2020 , 25, 101262	3
243	Injectable hydrogels for anti-tumour treatment: a review. 2020 , 6, 59-74	3
242	Role of Hydrogels in Bone Tissue Engineering: How Properties Shape Regeneration. 2020 , 16, 1667-1686	7
241	Hydrogel-clay Nanocomposites as Carriers for Controlled Release. 2020 , 27, 919-954	9
240	Natural Inorganic Ingredients in Wound Healing. 2020 , 26, 621-641	11
239	Design of ultra-stretchable, highly adhesive and self-healable hydrogels tannic acid-enabled dynamic interactions. 2021 , 8, 3409-3416	13
238	Self-adhesive hydrogels for tissue engineering. 2021 , 9, 8739-8767	8
237	A tough hydrogel with fast self-healing and adhesive performance for wearable sensors. 2021 , 632, 127793	3
236	Mussel-Inspired Chemistry: A Promising Strategy for Natural Polysaccharides in Biomedical Applications. 2021 , 101472	7
235	Zwitterion-Initiated Spontaneously Polymerized Super Adhesive Showing Real-Time Deployable and Long-Term High-Strength Adhesion against Various Harsh Environments. 2109144	9
234	Mussel-Inspired Epoxy Bioadhesive with Enhanced Interfacial Interactions for Wound Repair. 2021 , 136, 223-232	1
233	Tannic acid/clay hydrogel with time-dependent mechanical and adhesive performance enabled by molecular interaction evolution. 2021 , 235, 124261	
232	Recent Physical Interaction-based Bioadhesives. 2020 , 693-721	
231	Bioadhesive Hydrogels and Their Applications. 2020 , 147-170	3
230	Biomechanical Motion-Activated Endogenous Wound Healing through LBL Self-Powered Nanocomposite Repairer with pH-Responsive Anti-Inflammatory Effect. 2021 , e2103997	9
229	Multifunctional thermo-magnetically actuated hybrid soft millirobot based on 4D printing. 2021 , 109451	6

228	Development of bioactive catechol functionalized nanoparticles applicable for 3D bioprinting. 2021 , 131, 112515	1
227	Anisotropic, strong, self-adhesive and strain-sensitive hydrogels enabled by magnetically-oriented cellulose/polydopamine nanocomposites. 2022 , 276, 118783	4
226	Superwettable Janus nylon membrane for multifunctional emulsion separation. 2022, 642, 119995	4
225	Bioinspired Multifunctional Cellulose Nanofibril-Based Liquid Wound Dressing for Multiple Synergistic Therapy of the Postoperative Infected Wound. 2021 , 13, 51578-51591	3
224	Hemocompatibility enhancement of polyethersulfone membranes: Strategies and challenges. 2021 , 1, 100013	O
223	Bioinspired, injectable, tissue-adhesive and antibacterial hydrogel for multiple tissue regeneration by minimally invasive therapy. 2022 , 26, 101290	5
222	Low-Temperature Tolerance and Conformal Adhesion Zwitterionic Hydrogels as Electronic Skin for Strain and Temperature Responsiveness. 2021 , 133782	6
221	One-Step Synthesis of Multifunctional Chitosan Hydrogel for Full-Thickness Wound Closure and Healing. 2021 , e2101808	6
220	Urushiol-Induced Hydrogels with Long-Term Durability and Long Service Lifespan in Mechanosensation.	1
219	Recent Developments of Nanomaterials in Hydrogels: Characteristics, Influences, and Applications. 2021 , 6, 12358-12382	1
218	Polyphenol-Metal Ion Redox-Induced Gelation System for Constructing Plant Protein Adhesives with Excellent Fluidity and Cold-Pressing Adhesion. 2021 ,	3
217	Recent Advances in Bioinspired Hydrogels: Materials, Devices, and Biosignal Computing. 2021,	4
216	Recent Progress in Materials Chemistry to Advance Flexible Bioelectronics in Medicine. 2021 , e2106787	5
215	Recent Advances on Designs and Applications of Hydrogel Adhesives. 2101038	2
214	An injectable adhesive antibacterial hydrogel wound dressing for infected skin wounds 2021 , 112584	3
213	Recent progress in surgical adhesives for biomedical applications. 2021 , 3, 41-41	2
212	Mussel-inspired adhesive gelatin-polyacrylamide hydrogel wound dressing loaded with tetracycline hydrochloride to enhance complete skin regeneration 2021 ,	1
211	A self-powered flexible sensing system based on a super-tough, high ionic conductivity supercapacitor and a rapid self-recovering fully physically crosslinked double network hydrogel.	1

2 10	Self-reductive palladium nanoparticles loaded on polydopamine-modified MXene for highly efficient and quickly catalytic reduction of nitroaromatics and dyes. 2022 , 635, 128038		1
209	Design of asymmetric-adhesion lignin reinforced hydrogels with anti-interference for strain sensing and moist air induced electricity generator 2022 , 201, 104-110		1
208	Bio-orthogonally crosslinked catechol-chitosan hydrogel for effective hemostasis and wound healing 2022 , 281, 119039		4
207	Supramolecular Adhesive Hydrogels for Tissue Engineering Applications 2022,		28
206	Molecular Rationale for the Design of Instantaneous, Strain-Tolerant Polymeric Adhesive in a Stretchable Underwater Human-Machine Interface <i>ACS Nano</i> , 2022 ,	16.7	2
205	Bioadhesive and conductive hydrogel-integrated brain-machine interfaces for conformal and immune-evasive contact with brain tissue. 2022 ,		15
204	Freezing-Tolerant, Nondrying, Stretchable, and Adhesive Organohydrogels Inspired by the DNA Double Helix Structure for a Flexible Dual-Response Sensor. 2022 , 4, 1159-1172		0
203	Engineering the Surface of TiC MXene Nanosheets for High Stability and Multimodal Anticancer Therapy 2022 , 14,		5
202	Analysis of Three-Dimensional Cell Migration in Dopamine-Modified Poly(aspartic acid)-Based Hydrogels 2022 , 8,		1
201	Biocompatible Lignin-Containing Hydrogels with Self-Adhesion, Conductivity, UV Shielding, and Antioxidant Activity as Wearable Sensors. 2022 , 4, 1448-1456		4
200	An antibacterial biomimetic adhesive with strong adhesion in both dry and underwater situations 2022 ,		0
199	Wound Dressing: From Nanomaterials to Diagnostic Dressings and Healing Evaluations <i>ACS Nano</i> , 2022 ,	16.7	17
198	Super Adhesive MXene-based Nanocomposite Hydrogel with Self-Healable and Conductivity Properties via Radiation Synthesis. 2101692		1
197	Polyphenol-based hydrogels: Pyramid evolution from crosslinked structures to biomedical applications and the reverse design 2022 , 17, 49-70		6
196	Stretchable, self-adhesive, conductive, anti-freezing sodium polyacrylate-based composite hydrogels for wearable flexible strain sensors. 2022 , 172, 105197		0
195	Lipophilic monomer tackifying hydrogel antifouling coatings prepared by soap free emulsion polymerization and its performance. 2022 , 165, 106724		
194	Mussel-inspired novel high adhesive UV-curable polyurethane/polysiloxane pressure sensitive adhesive. 2022 , 165, 106692		1
193	Polyethylene glycol grafted chitin nanocrystals enhanced, stretchable, freezing-tolerant ionic conductive organohydrogel for strain sensors. 2022 , 155, 106813		1

192	Soft armour-like layer-protected hydrogels for wet tissue adhesion and biological imaging. 2022 , 434, 134418	4
191	Bioinspired strategies for making superior graphene composite coatings. 2022 , 435, 134808	3
190	Fabrication of gelatin-based and Zn-incorporated composite hydrogel for accelerated infected wound healing 2022 , 13, 100216	2
189	Engineering a Photosynthetic Bacteria-incorporated Hydrogel for Infected Wound Healing 2021,	4
188	Sustainable and safer nanoclay composites for multifaceted applications.	2
187	Ascidian-inspired aciduric hydrogels with high stretchability and adhesiveness promote gastric hemostasis and wound healing 2022 ,	2
186	Engineering Hydrogels for the Development of Three-Dimensional In Vitro Models 2022, 23,	1
185	A Green Catechol-Containing Cellulose Nanofibrils-Cross-Linked Adhesive 2022,	1
184	Bioinspirierte Klebstoffe zur Anwendung in w\strigen Fl\sigkeiten. 2022 , 66, 34-39	
183	Mussel-inspired chitosan-based hydrogel sensor with pH -responsive and adjustable adhesion, toughness and self-healing capability.	О
182	Thermal-Responsive Magnetic Hydrogel for Multidisciplinary Therapy of Hepatocellular Carcinoma 2022 ,	4
181	Molecular Engineering Super-Robust Dry/Wet Adhesive with Strong Interface Bonding and Excellent Mechanical Tolerance 2022 ,	1
180	Strong Dynamic Interfacial Adhesion by Polymeric Ionic Liquids under Extreme Conditions <i>ACS Nano</i> , 2022 ,	16.7 1
179	Thermally responsive hydrogel for atrial fibrillation related stroke prevention 2022 , 14, 100240	
178	Materials with Tunable Optical Properties for Wearable Epidermal Sensing in Health Monitoring 2022 , e2109055	12
177	Cell/Tissue Adhesive, Self-Healable, Biocompatible, Hemostasis, and Antibacterial Hydrogel Dressings for Wound Healing Applications. 2102369	2
176	Bioactive inorganic particles-based biomaterials for skin tissue engineering. 20210083	5
175	A tunable multifunctional hydrogel with balanced adhesion, toughness and self-healing ability prepared by photopolymerization under green LED irradiation for wound dressing. 2022 , 168, 111119	1

174	An Instant, Repeatable and Universal Supramolecular Adhesive Based on Natural Small Molecules for Dry/Wet Environments. 2022 , 442, 136206	1
173	Skin-Mimicking, Stretchable Photodetector for Skin-Customized Ultraviolet Dosimetry. 2101348	1
172	Near-infrared electrospun fiber with bimetallic coating for antibacterial and bone regeneration. 2022 , 174, 105249	
171	Stem from nature: Bioinspired adhesive formulations for wound healing 2022,	3
170	A general tape-coating strategy to construct multifunctional superhydrophobic surfaces with self-adhesion, self-healing, and conductivity on various substrates. 2022 , 441, 135935	0
169	Reversing Hydrogel Adhesion Property via Firmly Anchoring Thin Adhesive Coatings. 2111278	2
168	Nature-Inspired Hydrogel Network for Efficient Tissue-Specific Underwater Adhesive 2021 , 13, 59761-59771	3
167	Skin-Adaptable, Long-Lasting Moisture, and Temperature-Tolerant Hydrogel Dressings for Accelerating Burn Wound Healing without Secondary Damage. 2021 ,	4
166	Adhesion advances: from nanomaterials to biomimetic adhesion and applications 2022,	3
165	Highly Conformal Polymers for Ambulatory Electrophysiological Sensing 2022 , e2200047	О
164	Vortex Fluidics-mediated Fluorescent Hydrogels with Aggregation-induced Emission Characteristics. 2022 , 221-242	
163	Extreme environment-adaptable and fast self-healable eutectogel triboelectric nanogenerator for energy harvesting and self-powered sensing. 2022 , 98, 107284	8
162	Low-temperature Activable, Carbon Dioxide based, Highly Adhesive and Degradable Oligo-urethane and its Potential Application as Auto-detachable Dressing.	
161	Supramolecular topology controlled self-healing conformal hydrogels for stable humanEhachine interfaces.	O
160	Underwater Luminescent Labeling Materials Constructed from Supramolecular Approach.	1
159	A self-healing and self-adhesive chitosan based ion-conducting hydrogel sensor by ultrafast polymerization 2022 ,	1
158	Multifunctional 🏿 anus-Type Bilayer Films Combine Broad-Range Tissue Adhesion with Guided Drug Release. 2105721	2
157	Adhesive and Hydrophobic Bilayer Hydrogel Enabled On-Skin Biosensors for High-Fidelity Classification of Human Emotion. 2200457	8

156	An Extensively Adhesive Patch with Multiple Physical Interactions and Chemical Crosslinking as a Wound Dressing and Strain Sensor. 2022 , 4, 3926-3941		1
155	Artificial Nonenzymatic Antioxidant MXene Nanosheet-Anchored Injectable Hydrogel as a Mild Photothermal-Controlled Oxygen Release Platform for Diabetic Wound Healing ACS Nano, 2022,	7	10
154	Inspired by mussel: biomimetic polyelectrolyte complex coacervate adhesive initiates a connection through water exchange. 1-6		
153	Infant Skin Friendly Adhesive Hydrogel Patch Activated at Body Temperature for Bioelectronics Securing and Diabetic Wound Healing <i>ACS Nano</i> , 2022 ,	7	14
152	Preparation of aloe polysaccharide/honey/PVA composite hydrogel: Antibacterial activity and promoting wound healing 2022 , 211, 249-258		3
151	Hybrid nanocomposite multinetwork hydrogel containing magnesium hydroxide nanoparticles with enhanced antibacterial activity for wound dressing applications. 2022 , 251, 124902		2
150	Fabrication of bentonite reinforced dopamine grafted carboxymethyl xylan cross-linked with polyacrylamide hydrogels with adhesion properties. 2022 , 647, 129024		0
149	Nanoporous and nano thickness film-forming bioactive composition for biomedical applications 2022 , 12, 8198		1
148	Aggregation-induced Emission (AIE) Photosensitizer Combined Polydopamine Nanomaterials for organelle-targeted Photodynamic and Photothermal Therapy by the Recognition of Sialic Acid. 2200242		2
147	Bio-Inspired Self-Hydrophobized Sericin Adhesive with Tough Underwater Adhesion Enables Wound Healing and Fluid Leakage Sealing. 2201108		5
146	Recent advances in lignosulfonate filled hydrogel for flexible wearable electronics: A mini review. 2022 , 212, 393-401		3
145	Polymer nanocomposites for adhesives and coatings. 2022 , 235-265		1
144	Mussel-inspired polyurethane coating for bio-surface functionalization to enhance substrate adhesion and cell biocompatibility. 1-13		
143	Biomimetic Polymer Adhesives.		2
142	Robust and adhesive lignin hybrid hydrogel as an ultrasensitive sensor. 2022 , 213, 226-233		4
141	Formation of composite hydrogel of carboxymethyl konjac glucomannan/gelatin for sustained release of EGCG. 2022 , 11, 1373-1383		1
140	Fruit Peel-Inspired Super-Stable Ionic Organohydrogel Electronics with Dense Hydrophobic Skin.		1
139	A Bibliometric and Visual Analysis of Nanocomposite Hydrogels Based on VOSviewer From 2010 to 2022. 10,		O

138 Natural polymer-based adhesive hydrogel for biomedical applications. **2022**, 8, 69-94

137	Polydopamine, harness of the antibacterial potentials-A review. 2022 , 15, 100329	2
136	Stable and low-resistance polydopamine methacrylamide-polyacrylamide hydrogel for brain-computer interface.	O
135	The Application of Clay-Based Nanocomposite Hydrogels in Wound Healing.	2
134	Hydrogel. 1-37	
133	An adhesive, anti-freezing, and environment stable zwitterionic organohydrogel for flexible all-solid-state supercapacitor. 2022 , 254, 125109	1
132	Cartilage-bone inspired the construction of soft-hard composite material with excellent interfacial binding performance and low friction for artificial joints.	
131	Preparation of Mussel-Inspired Stable-Bonding Dust Binders for Fugitive Dust Control.	
130	Janus mucosal dressing with a tough and adhesive hydrogel based on synergistic effects of gelatin, polydopamine, and nano-clay. 2022 ,	4
129	One-Pot Synthesis of Polyelectrolyte-triazine Gels Using Cation- Interactions and Multiple Hydrogen Bonds for Adjustable Interfacial Adhesion. 2200464	
128	Conductive hydrogel dressings based on cascade reactions with photothermal effect for monitoring and treatment of diabetic wounds. 2022 , 242, 110098	1
127	Anti-oxidant anti-inflammatory and antibacterial tannin-crosslinked citrate-based mussel-inspired bioadhesives facilitate scarless wound healing. 2023 , 20, 93-110	7
126	Robust hydrogel adhesives for emergency rescue and gastric perforation repair. 2023, 19, 703-716	1
125	Adhesive hydrogel wrap loaded with Netrin-1-modified adipose-derived stem cells: An effective approach against periarterial inflammation after endovascular intervention. 10,	O
124	A Straightforward Access to New Amides of the Melanin Precursor 5,6-dihydroxyindole-2-carboxylic Acid and Characterization of the Properties of the Pigments Thereof. 2022 , 27, 4816	1
123	Chitosan-driven biocompatible hydrogel based on water-soluble polypyrrole for stable human-machine interfaces. 2022 , 295, 119890	O
122	Mussel-inspired multifunctional hydrogel dressing with hemostasis, hypoglycemic, photothermal antibacterial properties on diabetic wounds. 2022 , 10, 4796-4814	1
121	Highly Resilient Dual-Crosslinked Hydrogel Adhesives Based on a Dopamine-Modified Crosslinker. 2022 , 14, 36304-36314	1

Thermal-Responsive and 3D Printable Hydrogel Based on an Acylhydrazine-Terminated Dynamic Covalent Bond and Pluronic F127.

119	Tissue-adhesive hydrogel for multimodal drug release to immune cells in skin. 2022,	Ο
118	Sponge-Like Macroporous Hydrogel with Antibacterial and ROS Scavenging Capabilities for Diabetic Wound Regeneration. 2200717	1
117	Sprayable hydrogel for instant sealing of vascular anastomosis. 2203087	O
116	A highly stretchable, UV resistant and underwater adhesive hydrogel based on xylan derivative for sensing. 2022 ,	0
115	Ultrafast gelation of silk fibroin-assisted conductive hydrogel with long-term environmental stability using self-catalytic dopamine/metal/H2O2 system. 2022 , 178, 111509	О
114	An anti-swelling, strong and flexible wood-based composite hydrogel as strain sensor. 2022 , 187, 115491	0
113	Metal-coordinated amino acid hydrogels with ultra-stretchability, adhesion, and self-healing properties for wound healing. 2022 , 179, 111548	O
112	Mussel-inspired nanocomposite hydrogel based on alginate and antimicrobial peptide for infected wound repair. 2022 , 219, 1087-1099	3
111	Influence of polydopamine functionalization on the rapid protein immobilization by alternating current electrophoretic deposition. 2022 , 34, 102347	O
110	Rational design in functional hydrogels towards biotherapeutics. 2022 , 223, 111086	0
109	Design strategies for adhesive hydrogels with natural antibacterial agents as wound dressings: Status and trends. 2022 , 16, 100429	5
108	Catch bond-inspired hydrogels with repeatable and loading rate-sensitive specific adhesion. 2023 , 21, 566-575	2
107	Polydopamine decorated MoS2 nanosheet based electrochemical immunosensor for sensitive detection of SARS-CoV-2 nucleocapsid protein in clinical samples.	O
106	Polydopamine/IR820 nanoparticles as topical phototheranostics for inhibiting psoriasiform lesions through dual photothermal and photodynamic treatments.	О
105	3D printed heterogeneous hybrid hydrogel scaffolds for sequential tumor photothermal-chemotherapy and wound healing. 2022 , 10, 5648-5661	O
104	Bioinspired ionic hydrogel materials with excellent antifouling properties and high conductivity in dry and cold environments. 2022 , 13, 4711-4716	О
103	A starch-regulated adhesive hydrogel dressing with controllable separation properties for painless dressing change. 2022 , 10, 6026-6037	О

102	A robust anisotropic light-responsive hydrogel for ultrafast and complex biomimetic actuation via poly(pyrrole)-coated electrospun nanofiber. 2023 , 452, 139373	2
101	HydrogelTissue Interface Interactions for Implantable Flexible Bioelectronics. 2022, 38, 11503-11513	1
100	Intrinsically Electron Conductive, Antibacterial, and Anti-swelling Hydrogels as Implantable Sensors for Bioelectronics. 2208024	О
99	Poly(vinyl Alcohol) (PVA)-Based Hydrogel Scaffold with Isotropic Ultratoughness Enabled by Dynamic Aminellatechol Interactions.	1
98	Clay-Based Nanocomposite Hydrogels for Biomedical Applications: A Review. 2022 , 12, 3308	O
97	Bioinspired Injectable Self-Healing Hydrogel Sealant with Fault-Tolerant and Repeated Thermo-Responsive Adhesion for Sutureless Post-Wound-Closure and Wound Healing. 2022 , 14,	4
96	Combination wound healing using polymer entangled porous nanoadhesive hybrids with robust ROS scavenging and angiogenesis properties. 2022 ,	2
95	Strong and Facile Adhesives Based on Phase Transitional Poly(acrylic acid)/Poly(ethylenimine) Complexes.	O
94	Probing and Manipulating Noncovalent Interactions in Functional Polymeric Systems. 2022 , 122, 14594-14678	3 10
93	Multifunctional all-in-one adhesive hydrogel for the treatment of perianal infectious wounds. 10,	O
92	Anti-Fouling, Adhesive Polyzwitterionic Hydrogel Electrodes Toughened Using a Tannic Acid Nanoflower.	О
91	Bridging wounds: tissue adhesives[essential mechanisms, synthesis and characterization, bioinspired adhesives and future perspectives. 2022 , 10,	1
90	Bio-macromolecular design roadmap towards tough bioadhesives. 2022 , 51, 9127-9173	4
89	Insights into the Role of Natural Polysaccharide-Based Hydrogel Wound Dressings in Biomedical Applications. 2022 , 8, 646	O
88	Wearable Hydrogel-based Epidermal Sensor with Thermal Compatibility and Long-Term Stability for Smart Colorimetric Multi-signals Monitoring. 2201730	2
87	Recent developments of polysaccharide-based double-network hydrogels.	O
86	Mussel-Inspired Adhesive, Antibacterial and Stretchable Composite Hydrogel for Wound Dressing. 2200370	0
85	Multidynamic Osteogenic Differentiation by Effective Polydopamine Micro-Arc Oxide Manipulations. Volume 17, 4773-4790	О

84	Topologically Enhanced Cation⊞nteractions for Developing High-Performance Underwater Adhesive. 2200531	O
83	Mussel-inspired hydrogel with injectable self-healing and antibacterial properties promotes wound healing in burn wound infection. 2022 , 14,	2
82	Biomedical Applications of Nanocellulose. 2023 , 367-406	Ο
81	Photothermal nanohybrid hydrogels for biomedical applications. 10,	1
80	Ultrasonic-Induced Synthesis of Underwater Adhesive and Antiswelling Hydrogel for Strain Sensor.	Ο
79	Using extracellular matrix as the bio-glue for wound repair in the surgery. 1,	Ο
78	Preparation of a nanocomposite hydrogel with high adhesion, toughness, and inherent antibacterial properties by a one-pot method. 2023 , 656, 130368	0
77	Super strong gelatin/cellulose nanofiber hybrid hydrogels without covalent cross-linking for strain sensor and supercapacitor. 2023 , 164, 107287	O
76	An injectable bioactive dressing based on platelet-rich plasma and nanoclay: Sustained release of deferoxamine to accelerate chronic wound healing. 2022 ,	0
75	Multifunctional and Multilayer Surgical Sealant for A Better Patient Safety. 2022 , 122411	O
74	Underwater Adhesion and Anti-Swelling Hydrogels. 2201477	0
73	Electrochemical Bonding of Hydrogels at Rigid Surfaces. 2201132	Ο
72	Engineering Functional Natural Polymer Based Nanocomposite Hydrogels for Wound Healing.	1
71	A critical review on polydopamine surface-modified scaffolds in musculoskeletal regeneration. 10,	O
70	Strong, Tough, and Adhesive Polyampholyte/Natural Fiber Composite Hydrogels. 2022, 14, 4984	0
69	Polysaccharide-Based Adhesive Antibacterial and Self-Healing Hydrogel for Sealing Hemostasis.	1
68	The versatile applications of polydopamine in regenerative medicine: Progress and challenges. 2023 , 4, 294-312	0
67	Recent advances in conductive hydrogels: classifications, properties, and applications.	3

66	Intrinsically adhesive, conductive organohydrogel with high stretchable, moisture retention, anti-freezing and healable properties for monitoring of human motions and electrocardiogram. 2023 , 377, 133098	O
65	Development of mussel mimetic gelatin based adhesive hydrogel for wet surfaces with self-healing and reversible properties. 2023 , 228, 68-77	O
64	A computational study of adhesive properties of bio-inspired surfaces. 2023 , 34, 105113	O
63	A simple yet multifunctional sensing platform inspired by healing-assembly hydrogels serving motion and sweat monitoring. 2023 , 378, 133173	O
62	Bio-inspired adhesive hydrogel for wound healing. 2023 , 1, 65-72	О
61	Suppression of pyrite oxidation by co-depositing bio-inspired PropS-SH-tannic acid coatings for the source control acid mine drainage. 2023 , 862, 160857	O
60	3D Printable Flexible Hydrogel-based Sensors with Gradient Porous Structure. 2022 , 1-1	О
59	Self-Adhesive and Conductive Dual-Network Polyacrylamide Hydrogels Reinforced by Aminated Lignin, Dopamine, and Biomass Carbon Aerogel for Ultrasensitive Pressure Sensor. 2022 , 14, 54127-54140	2
58	Functional Tough Hydrogels: Design, Processing, and Biomedical Applications.	1
57	Highly Stretchable and Biocompatible Wrinkled Nanoclay-Composite Hydrogel with Enhanced Sensing Capability for Precise Detection of Myocardial Infarction. 2209497	O
56	Advanced Biomimetic Soybean Meal-Based Adhesive with High Strength and Toughness. 2022 , 10, 17355-173	368
55	Advances in Hemostatic Hydrogels That Can Adhere to Wet Surfaces. 2023 , 9, 2	3
54	Self-Pumping Janus Hydrogel with Aligned Channels for Accelerating Diabetic Wound Healing. 2200814	О
53	Bio-inspired adhesive hydrogel for biomedicineBrinciples and design strategies.	O
52	Nanosheet-Hydrogel Composites: From Preparation and Fundamental Properties to Their Promising Applications.	O
51	Stretchable, transparent, self-adhesive, anti-freezing and ionic conductive nanocomposite hydrogels for flexible strain sensors. 2023 , 111824	O
50	Polyaniline Sandwiched Ultra-strong PVA/PAA Hybrid Hydrogel for Low-temperature Resistant Supercapacitors and Strain Sensors.	О
49	High-strength hydrogels: Fabrication, reinforcement mechanisms, and applications.	1

48	Mussel-inspired Adhesive Hydrogels for Local Immunomodulation.	O
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43	Magnetic/thermo dual-sensitive hydrogel-based 3D Printable millirobots. 2022,	O
42	Adhesive Composite Hydrogel Patch for Sustained Transdermal Drug Delivery To Treat Atopic Dermatitis.	O
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36	Mussel-inspired lignin decorated cellulose nanocomposite tough organohydrogel sensor with conductive, transparent, strain-sensitive and durable properties. 2023 , 239, 124260	O
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21	Wet-Adhesive Multifunctional Hydrogel with Anti-swelling and a Skin-Seamless Interface for Underwater Electrophysiological Monitoring and Communication. 2023 , 15, 11549-11562	Ο
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18	Robust Underwater Adhesion of Catechol-Functionalized Polymer Triggered by Water Exchange. 2201235	0
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16	Room Temperature Ca2+-Initiated Free Radical Polymerization for the Preparation of Conductive, Adhesive, Anti-freezing and UV-Blocking Hydrogels for Monitoring Human Movement. 2023 , 8, 9434-9444	0
15	Highly self-adhesive, compressible, stretchable, all hydrogel-based supercapacitor for wearable/portable electronics. 2023 , 33, 101046	O
14	Development of Antifreezing, Printable, Adhesive, Tough, Biocompatible, High-Water Content Hydrogel for Versatile Applications. 2023 , 15, 16034-16045	O
13	Advances of Mussel-Inspired Nanocomposite Hydrogels in Biomedical Applications. 2023 , 8, 128	O

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