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A highly	z stretchabl	e autonomous	self-healing	elastomer
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DOI: 10.1038/nchem.2492 Nature Chemistry, 2016, 8, 618-24.

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#	Paper	IF	Citations
1008	Autonomous Self-Healing, Antifreezing, and Transparent Conductive Elastomers.		
1007	Janus and Strawberry-like Particles from Azo Molecular Glass and Polydimethylsiloxane Oligomer.		
1006	Protein-Inspired Self-Healable Ti3C2 MXenes/Rubber-Based Supramolecular Elastomer for Intelligent Sensing.		
1005	Inorganic Nanotube Mesophases Enable Strong Self-Healing Fibers.		
1004	3D printed hydrogel soft actuators. <b>2016</b> ,		12
1003	Metal-Coordination Complexes Mediated Physical Hydrogels with High Toughness, StickBlip Tearing Behavior, and Good Processability. <b>2016</b> , 49, 9637-9646		235
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815	Controllable and Stable Deformation of a Self-Healing Photo-Responsive Supramolecular Assembly for an Optically Actuated Manipulator Arm. <b>2018</b> , 10, 29909-29917	33
814	Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. <b>2018</b> , 4, eaat8192	224
813	Stretchable, Transparent, Tough, Ultrathin, and Self-limiting Skin-like Substrate for Stretchable Electronics. <b>2018</b> , 10, 27297-27307	29
812	Adhesion Between Unvulcanized Elastomers: A Critical Review. <b>2018</b> , 185-252	1

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810	Self-Adapting Hydrogel to Improve the Therapeutic Effect in Wound-Healing. <b>2018</b> , 10, 26046-26055	61
809	Multiphase-Assembly of Siloxane Oligomers with Improved Mechanical Strength and Water-Enhanced Healing. <b>2018</b> , 57, 11242-11246	85
808	Multiphase-Assembly of Siloxane Oligomers with Improved Mechanical Strength and Water-Enhanced Healing. <b>2018</b> , 130, 11412-11416	22
807	A rigid and healable polymer cross-linked by weak but abundant Zn(II)-carboxylate interactions. <b>2018</b> , 9, 2725	168
806	Dynamic Metalligand Bonds as Scaffolds for Autonomously Healing Multi-Responsive Materials. <b>2018</b> , 2018, 2090-2100	25
805	Extremely Stretchable, Self-Healable Elastomers with Tunable Mechanical Properties: Synthesis and Applications. <b>2018</b> , 30, 6026-6039	74
804	An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network. <b>2018</b> , 13, 1057-1065	510
803	Coordinated silicon elastomer coating@fabrics with oil/water separation capabilities, outstanding durability and ultra-fast room-temperature self-healing ability. <b>2018</b> , 6, 17156-17163	30
802	Self-healing improves the stability and safety of polymer bonded explosives. <b>2018</b> , 167, 346-354	23
801	Fluorescent poly(hydroxyurethane): Biocompatibility evaluation and selective detection of Fe(III). <b>2018</b> , 135, 46723	8
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799	Photo-induced healing of stretchable transparent electrodes based on thermoplastic polyurethane with embedded metallic nanowires. <b>2018</b> , 6, 12420-12429	27
798	High-performance recyclable cross-linked polyurethane with orthogonal dynamic bonds: The molecular design, microstructures, and macroscopic properties. <b>2018</b> , 148, 127-137	28
797	Biomechano-Interactive Materials and Interfaces. <b>2018</b> , 30, e1800572	75
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791	Recent developments in bio-monitoring via advanced polymer nanocomposite-based wearable strain sensors. <b>2019</b> , 123, 167-177	201
790	Nanomaterials-based flexible and stretchable bioelectronics. <b>2019</b> , 44, 643-656	18
789	Self-Healing Nanophotonics: Robust and Soft Random Lasers. <b>2019</b> , 13, 8977-8985	6
788	Excellent Toughening of 2,6-Diaminopyridine Derived Poly (Urethane Urea) via Dynamic Cross-Linkages and Interfering with Hydrogen Bonding of Urea Groups from Partially Coordinated Ligands. <b>2019</b> , 11,	3
787	Self-Healing and Recyclable Hydrogels Reinforced with in Situ-Formed Organic Nanofibrils Exhibit Simultaneously Enhanced Mechanical Strength and Stretchability. <b>2019</b> , 11, 32346-32353	13
786	Bio-Multifunctional Smart Wearable Sensors for Medical Devices. <b>2019</b> , 1, 1900040	58
785	Facile Fabrication of Room-Temperature Self-Healing, Mechanically Robust, Highly Stretchable, and Tough Polymers Using Dual Dynamic Cross-Linked Polymer Complexes. <b>2019</b> , 11, 33356-33363	22
7 <sup>8</sup> 4	Elastomer Reinforced with Innate Sulfur-Based Cross-Links as Ligands. <b>2019</b> , 8, 1091-1095	9
783	Soft robots based on dielectric elastomer actuators: a review. <b>2019</b> , 28, 103002	77
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78o	Notch-Insensitive, Ultrastretchable, Efficient Self-Healing Supramolecular Polymers Constructed from Multiphase Active Hydrogen Bonds for Electronic Applications. <b>2019</b> , 31, 7951-7961	47
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770	Electronic Skin: Recent Progress and Future Prospects for Skin-Attachable Devices for Health Monitoring, Robotics, and Prosthetics. <b>2019</b> , 31, e1904765	498
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768	Integrating transient and sacrificial bonds into biobased elastomers toward mechanical property enhancement and macroscopically responsive property. <b>2019</b> , 184, 121914	10
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766	Regioregular-block-Regiorandom Poly(3-hexylthiophene) Copolymers for Mechanically Robust and High-Performance Thin-Film Transistors. <b>2019</b> , 52, 7721-7730	25
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763	Supramolecular silicone coating capable of strong substrate bonding, readily damage healing, and easy oil sliding. <b>2019</b> , 5, eaaw5643	71
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759	The Microscopic Structure <b>P</b> roperty Relationship of Metal <b>©</b> rganic Polyhedron Nanocomposites. <b>2019</b> , 131, 17573-17578	7
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752	Exploring CopperAmino Acid Complexes in Cross-Linking of Maleated Ethylene Propylene Rubber. <b>2019</b> , 58, 17802-17813	4
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747	Tailoring biomimetic polymer networks towards an unprecedented combination of versatile mechanical characteristics <b>2019</b> , 9, 15780-15784	4
746	A Self-Healing and Shape Memory Polymer that Functions at Body Temperature. <b>2019</b> , 24,	28
745	Architectural Code for Rubber Elasticity: From Supersoft to Superfirm Materials. <b>2019</b> , 52, 7531-7546	69
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738	Dual Cross-Linked Self-Healing and Recyclable Epoxidized Natural Rubber Based on Multiple Reversible Effects. <b>2019</b> , 7, 4443-4455	65
737	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. <b>2019</b> , 29, 1808509	175
736	Preparation and characterisation of stacked planar actuators. <b>2019</b> , 364, 217-225	7
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734	Integrating Sacrificial Bonds into Dynamic Covalent Networks toward Mechanically Robust and Malleable Elastomers. <b>2019</b> , 8, 193-199	98
733	Metallogels: Availability, Applicability, and Advanceability. <b>2019</b> , 31, e1806204	72
732	Stretchable Organometal-Halide-Perovskite Quantum-Dot Light-Emitting Diodes. <b>2019</b> , 31, e1807516	43
731	Self-Healing Polymeric Hydrogel Formed by Metal-Ligand Coordination Assembly: Design, Fabrication, and Biomedical Applications. <b>2019</b> , 40, e1800837	106
730	Robust, Stretchable, and Self-Healable Supramolecular Elastomers Synergistically Cross-Linked by Hydrogen Bonds and Coordination Bonds. <b>2019</b> , 11, 7387-7396	103
729	Transparent, pressure-sensitive, and healable e-skin from a UV-cured polymer comprising dynamic urea bonds. <b>2019</b> , 7, 3101-3111	21
728	Additive manufacturing of self-healing elastomers. <b>2019</b> , 11,	63
727	Modulating Noncovalent Cross-links with Molecular Switches. <b>2019</b> , 141, 3597-3604	24
726	A novel polysiloxane elastomer based on reversible aluminum-carboxylate coordination. <b>2019</b> , 43, 261-268	35
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721	Self-Healing Hydrogels: The Next Paradigm Shift in Tissue Engineering?. <b>2019</b> , 6, 1801664	160
720	Dynamic Supramolecular Ruthenium-Based Gels Responsive to Visible/NIR Light and Heat. <b>2019</b> , 25, 9851-9855	12
719	Constructing Sacrificial Multiple Networks To Toughen Elastomer. <b>2019</b> , 52, 4154-4168	19
718	In situ synthesis of poly(ether ester) via direct polycondensation of terephthalic acid and 1,3-propanediol with sulfonic acids as catalysts. <b>2019</b> , 10, 3629-3638	6
717	Design of Coordination-Crosslinked Nitrile Rubber with Self-Healing and Reprocessing Ability. <b>2019</b> , 27, 803-810	20
716	Highly Stretchable and Self-Healing "Solid-Liquid" Elastomer with Strain-Rate Sensing Capability. <b>2019</b> , 11, 19534-19540	39
715	Self-Healable Dielectric Polydimethylsiloxane Composite Based on Zinc-Imidazole Coordination Bond. <b>2019</b> , 27, 435-443	12
714	Mechanically Robust, Self-Healable, and Reprocessable Elastomers Enabled by Dynamic Dual Cross-Links. <b>2019</b> , 52, 3805-3812	119
713	Tunable Boft and stiff[Iself-healing, recyclable, thermadapt shape memory biomass polymers based on multiple hydrogen bonds and dynamic imine bonds. <b>2019</b> , 7, 13400-13410	83
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691	Cellulose graft copolymers toward strong thermoplastic elastomers via RAFT polymerization. <b>2019</b> , 480, 162-171	13
690	Thermodynamically stable whilst kinetically labile coordination bonds lead to strong and tough self-healing polymers. <b>2019</b> , 10, 1164	155
689	Self-healable poly(acrylic acid-co-maleic acid)/glycerol/boron nitride nanosheet composite hydrogels at low temperature with enhanced mechanical properties and water retention. <b>2019</b> , 15, 3680-3688	3 <sup>40</sup>
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687	Characterization of Hydrogen Bonding Formation and Breaking in Semiconducting Polymers under Mechanical Strain. <b>2019</b> , 52, 2476-2486	29
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685	Polymer-based flexible bioelectronics. <b>2019</b> , 64, 634-640	33
684	A Highly Efficient Self-Healing Elastomer with Unprecedented Mechanical Properties. <b>2019</b> , 31, e1901402	236
683	Using Synergistic Multiple Dynamic Bonds to Construct Polymers with Engineered Properties. <b>2019</b> , 40, e1900038	45
682	Highly Tough, Stretchable, Self-Healing, and Recyclable Hydrogels Reinforced by in Situ-Formed Polyelectrolyte Complex Nanoparticles. <b>2019</b> , 52, 3141-3149	77
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671	Effect of natural melanin nanoparticles on a self-healing cross-linked polyurethane. <b>2019</b> , 51, 547-558	10
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664	Dual-Cross-Linked Supramolecular Polysiloxanes for Mechanically Tunable, Damage-Healable and Oil-Repellent Polymeric Coatings. <b>2019</b> , 11, 47382-47389	23
663	Extravascular gelation shrinkage-derived internal stress enables tumor starvation therapy with suppressed metastasis and recurrence. <b>2019</b> , 10, 5380	46
662	A Skin-Inspired Stretchable, Self-Healing and Electro-Conductive Hydrogel with A Synergistic Triple Network for Wearable Strain Sensors Applied in Human-Motion Detection. <b>2019</b> , 9,	50
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655	Conductive double-crosslinked network hydrogel with superior stretchability and self-healing ability. <b>2019</b> , 6, 105712	10
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638	Mimicking Human and Biological Skins for Multifunctional Skin Electronics. <b>2020</b> , 30, 1904523	126
637	Advanced Soft Materials, Sensor Integrations, and Applications of Wearable Flexible Hybrid Electronics in Healthcare, Energy, and Environment. <b>2020</b> , 32, e1901924	305
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631	and in vivo. <b>2020</b> , 177, 298-313	10
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629	Autonomous Self-Healing, Antifreezing, and Transparent Conductive Elastomers. <b>2020</b> , 32, 874-881	57
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626	Self-Healable and Stretchable Organic Thermoelectric Materials: Electrically Percolated Polymer Nanowires Embedded in Thermoplastic Elastomer Matrix. <b>2020</b> , 30, 1905809	34
625	A highly stretchable, transparent, notch-insensitive self-healing elastomer for coating. <b>2020</b> , 8, 2043-2053	26
624	Achieving multiple emission states and controllable response behaviour in thermochromic luminescent materials for security applications. <b>2020</b> , 8, 10798-10804	11
623	A self-healing, Na+ sensitive and neuron-compatible fiber. <b>2020</b> , 386, 124018	1
622	Interconversion between nanoribbons and nanospheres mediated by detachable [hvisibility suit[] <b>2020</b> , 9, 100068	5
621	A self-healing flexible urea-g-MWCNTs/poly(urethane-sulfide) nanocomposite for sealing electronic devices. <b>2020</b> , 8, 607-618	9
620	A transparent, self-healing and high-l'dielectric for low-field-emission stretchable optoelectronics. <b>2020</b> , 19, 182-188	114
619	Thermally Self-Healable Titanium Dioxide/Polyurethane Nanocomposites with Recoverable Mechanical and Dielectric Properties. <b>2020</b> , 28, 373-381	8
618	Muscle-Inspired Self-Healing Hydrogels for Strain and Temperature Sensor. <b>2020</b> , 14, 218-228	237
617	Designed preparation of silicone protective materials with controlled self-healing and toughness properties. <b>2020</b> , 140, 105483	8
616	Dynamic Ag-N Bond Enhanced Stretchable Conductor for Transparent and Self-Healing Electronic Skin. <b>2020</b> , 12, 1486-1494	32
615	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. <b>2020</b> , 2, 390-403	98
614	A self-healing transparent polydimethylsiloxane elastomer based on imine bonds. <b>2020</b> , 123, 109382	34

613	Emerging Soft Conductors for Bioelectronic Interfaces. <b>2020</b> , 30, 1907184	38
612	Mussel-Inspired Flexible, Wearable, and Self-Adhesive Conductive Hydrogels for Strain Sensors. <b>2020</b> , 41, e1900450	49
611	Self-healing polymers with nanomaterials and nanostructures. <b>2020</b> , 30, 100826	36
610	Self-Healing of Materials under High Electrical Stress. <b>2020</b> , 3, 989-1008	18
609	Improving the Lifetime of CsPbBr Perovskite in Water Using Self-Healing and Transparent Elastic Polymer Matrix. <b>2020</b> , 8, 766	1
608	Reversible formation of soft coordination polymers from liquid mixtures of photoreactive organometallic ionic liquid and bridging molecules. <b>2020</b> , 16, 9946-9954	4
607	Self-healable transparent polymer/salt hybrid adhesive via a ternary bonding effect. <b>2020</b> , 8, 21812-21823	5
606	Metals in polymers: hybridization enables new functions. <b>2020</b> , 8, 15956-15980	11
605	MOF Nanosheet-Based Mixed Matrix Membranes with Metal-Organic Coordination Interfacial Interaction for Gas Separation. <b>2020</b> , 12, 49101-49110	35
604	A Degradable and Self-Healable Vitrimer Based on Non-isocyanate Polyurethane. <b>2020</b> , 8, 585569	6
603	A Thermosetting Polyurethane with Excellent Self-Healing Properties and StabilityIfor Metal Surface Coating. <b>2020</b> , 221, 2000273	13
602	Arm-length-dependent phase transformation and dual dynamic healing behavior of supramolecular networks consisting of ureidopyrimidinone-end-functionalized semi-crystalline star polymers. <b>2020</b> , 138, 109976	4
601	Self-healing perovskite solar cells. <b>2020</b> , 209, 408-414	14
600	A supramolecular silicone dielectric elastomer with a high dielectric constant and fast and highly efficient self-healing under mild conditions. <b>2020</b> , 8, 23330-23343	16
599	Recently Emerging Nanotechnological Advancements in Polymer Nanocomposite Coatings for Anti-corrosion, Anti-fouling and Self-healing <b>2020</b> , 21, 100734	39
598	Triple non-covalent dynamic interactions enabled a tough and rapid room temperature self-healing elastomer for next-generation soft antennas. <b>2020</b> , 8, 25073-25084	9
597	Self-Healing High Strength and Thermal Conductivity of 3D Graphene/PDMS Composites by the Optimization of Multiple Molecular Interactions. <b>2020</b> , 53, 7161-7170	49
596	Evolution of self-healing elastomers, from extrinsic to combined intrinsic mechanisms: a review. <b>2020</b> , 7, 2882-2902	87

595	Types of chemistries involved in self-healing polymeric systems. <b>2020</b> , 17-73	O
594	Self-healing biomaterials based on polymeric systems. <b>2020</b> , 167-207	1
593	Self-healing materials utilizing supramolecular interactions. <b>2020</b> , 293-367	1
592	Electron-Donating Effect Enabled Simultaneous Improvement on the Mechanical and Self-Healing Properties of Bromobutyl Rubber Ionomers. <b>2020</b> , 12, 53239-53246	12
591	Muscle-like Ultratough Hybrid Hydrogel Constructed by Heterogeneous Inorganic Polymerization on an Organic Network. <b>2020</b> ,	9
590	Self-Healing Material with Reversible Luminescence Switch Behavior. 2020,	19
589	Emerging flexible sensors based on nanomaterials: recent status and applications. <b>2020</b> , 8, 25499-25527	40
588	Recent Progress in 3D Printing of Elastic and High-Strength Hydrogels for the Treatment of Osteochondral and Cartilage Diseases. <b>2020</b> , 8, 604814	6
587	Self-Healing Thermoplastic Elastomers Formed from Triblock Copolymers with Dense 1,2,3-Triazole Blocks. <b>2020</b> , 53, 10323-10329	6
586	Low-Temperature-Meltable Elastomers Based on Linear Polydimethylsiloxane Chains Alpha, Omega-Terminated with Mesogenic Groups as Physical Crosslinker: A Passive Smart Material with Potential as Viscoelastic Coupling. Part II-Viscoelastic and Rheological Properties. <b>2020</b> , 12,	1
585	Effect of Metal-Ligand Coordination Complexes on Molecular Dynamics and Structure of Cross-Linked Poly(dimethylosiloxane). <b>2020</b> , 12,	3
584	Construction of dual coordination networks in epoxidized butadiene-acrylonitrile rubber/CuSO4 composites and mechanical behaviors. <b>2020</b> , 207, 122865	5
583	Tuning the properties of hydrogels made from poly(acrylic acid) and calcium salts. 2020, 22, 18631-18638	9
582	Bridging experiments and theory: isolating the effects of metal-ligand interactions on viscoelasticity of reversible polymer networks. <b>2020</b> , 16, 8591-8601	9
581	Metal-Coordination Mediated Polyacrylate for High Performance Silicon Microparticle Anode. <b>2020</b> , 3, 1287-1295	5
580	Mechanically robust and tough waterborne polyurethane films based on diselenide bonds and dual H-bonding interactions with fast visible-light-triggered room-temperature self-healability. <b>2020</b> , 11, 5463-54	74 <sup>15</sup>
579	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. <b>2020</b> , 2, 2000117	9
578	Thermoplastic multifunctional polysiloxane-based materials from broad gradient-transition multiphase separation. <b>2020</b> , 8, 16376-16384	21

577	Biosynthetic self-healing materials for soft machines. <b>2020</b> , 19, 1230-1235	86
576	Extrusion 3D Printing of Polymeric Materials with Advanced Properties. <b>2020</b> , 7, 2001379	62
575	Intrinsically Stretchable and Self-Healing Electroconductive Composites Based on Supramolecular Organic Polymer Embedded with Copper Microparticles. <b>2020</b> , 6, 2000527	4
574	Quantitative Insights into the Effects of Post-Cross-Linking on Physical Performance Improvement and Surface-Cracking Healing of a Hydrogel. <b>2020</b> , 11, 7159-7166	1
573	Droplets Self-Born in the Dynamic Polymer for Generating Functional Coatings. <b>2020</b> , 12, 39657-39664	2
572	Self healable neuromorphic memtransistor elements for decentralized sensory signal processing in robotics. <b>2020</b> , 11, 4030	24
571	Low-Temperature Meltable Elastomers Based on Linear Polydimethylsiloxane Chains Alpha, Omega-Terminated with Mesogenic Groups as Physical Crosslinkers: A Passive Smart Material with Potential as Viscoelastic Coupling. Part I: Synthesis and Phase Behavior. <b>2020</b> , 12,	2
570	Dynamics of self-healing supramolecular guanine-modified poly(n-butyl methacrylate-co-hydroxyethyl methacrylate) copolymers. <b>2020</b> , 211, 123117	7
569	Reprocessability of dynamic polydioxaborolane networks activated by heat, moisture and mechanical force. <b>2020</b> , 209, 123037	4
568	Transition metal pincer complex based self-healable, stretchable and transparent triboelecctric nanogenerator. <b>2020</b> , 78, 105348	15
567	Room-Temperature Self-Healing Ablative Composites via Dynamic Covalent Bonds for High-Performance Applications. <b>2020</b> , 2, 3977-3987	13
566	Strong Autonomic Self-Healing Biobased Polyamide Elastomers. <b>2020</b> , 32, 8325-8332	21
565	Chelation Crosslinking of Biodegradable Elastomers. <b>2020</b> , 32, e2003761	10
564	Dual physically cross-linked carboxymethyl cellulose-based hydrogel with high stretchability and toughness as sensitive strain sensors. <b>2020</b> , 27, 9975-9989	15
563	Three-Dimensional Binary-Conductive-Network Silver Nanowires@Thiolated Graphene Foam-Based Room-Temperature Self-Healable Strain Sensor for Human Motion Detection. <b>2020</b> , 12, 44360-44370	39
562	A Dielectric Elastomer Actuator That Can Self-Heal Integrally. <b>2020</b> , 12, 44137-44146	16
561	Multivalent Assembly of Flexible Polymer Chains into Supramolecular Nanofibers. <b>2020</b> , 142, 16814-16824	14
560	Highly Stretchable and Conductive Self-Healing Hydrogels for Temperature and Strain Sensing and Chronic Wound Treatment. <b>2020</b> , 12, 40990-40999	34

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559	I ransparent and Healable Ionogels with High Mechanical Strength and Ionic Conductivity as Reliable Strain Sensors. <b>2020</b> , 12, 57477-57485	27
558	Highly Stretchable, Recyclable, and Fast Room Temperature Self-Healable Biobased Elastomers Using Polycondensation. <b>2020</b> , 53, 9847-9858	24
557	Layer-by-Layer Growth Control of Metal-Organic Framework Thin Films Assembled on Polymer Films. <b>2020</b> , 12, 50784-50792	14
556	Reversibly Transforming a Highly Swollen Polyelectrolyte Hydrogel to an Extremely Tough One and its Application as a Tubular Grasper. <b>2020</b> , 32, e2005171	52
555	A self-healable, moldable and bioactive biomaterial gum for personalised and wearable drug delivery. <b>2020</b> , 8, 4340-4356	6
554	Modulating the thermomechanical properties and self-healing efficiency of siloxane-based soft polymers through metalligand coordination. <b>2020</b> , 44, 8977-8985	10
553	Freezing-Tolerant, Highly Sensitive Strain and Pressure Sensors Assembled from Ionic Conductive Hydrogels with Dynamic Cross-Links. <b>2020</b> , 12, 25334-25344	88
552	Room-temperature autonomous self-healing glassy polymers with hyperbranched structure. <b>2020</b> , 117, 11299-11305	65
551	Facile construction of a double network cross-linked luminescent supramolecular elastomer by hydrosilylation and pillar[5]arene host-guest recognition. <b>2020</b> , 56, 6719-6722	9
550	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. <b>2020</b> , 132, 12237-12244	5
549	Beneficial Use of a Coordination Complex As the Junction Catalyst in a Bipolar Membrane. <b>2020</b> , 3, 5765-5773	13
548	Autonomic Self-Healing of PEDOT:PSS Achieved Via Polyethylene Glycol Addition. <b>2020</b> , 30, 2002853	24
547	High-Performance Cross-Linked Self-Healing Material Based on Multiple Dynamic Bonds. <b>2020</b> , 2, 2228-2237	19
546	Self-healing polymers: Synthesis methods and applications. <b>2020</b> , 23, 100500	20
545	Microscopic Theory of the Effect of Caging and Physical Bonding on Segmental Relaxation in Associating Copolymer Liquids. <b>2020</b> , 53, 4366-4380	6
544	Fe ionic induced strong bioinspired Fe3O4@graphene aerogel with excellent electromagnetic shielding effectiveness. <b>2020</b> , 525, 146569	11
543	Readily self-healing polymers at subzero temperature enabled by dual cooperative crosslink strategy for smart paint. <b>2020</b> , 398, 125593	13
542	Mechanically Robust, Self-Healing, Polymer Blends and Polymer/Small Molecule Blend Materials with High Antibacterial Activity. <b>2020</b> , 12, 26966-26972	9

541	Mussel cuticle-mimetic ultra-tough, self-healing elastomers with double-locked nanodomains exhibit fast stimuli-responsive shape transformation. <b>2020</b> , 8, 12463-12471	11
540	A silicone elastomer with optimized and tunable mechanical strength and self-healing ability based on strong and weak coordination bonds. <b>2020</b> , 11, 4047-4057	12
539	Skin-inspired electronics: emerging semiconductor devices and systems. <b>2020</b> , 41, 041601	33
538	Mechanical and Self-Healing Behavior of Matrix-Free Polymer Nanocomposites Constructed via Grafted Graphene Nanosheets. <b>2020</b> , 36, 7427-7438	7
537	Remalleable, Healable, and Highly Sustainable Supramolecular Polymeric Materials Combining Superhigh Strength and Ultrahigh Toughness. <b>2020</b> , 12, 30805-30814	56
536	Mechanical and Optical Properties of Stretchable Silicon Nanocrystal/Polydimethylsiloxane Nanocomposites. <b>2020</b> , 217, 2000015	5
535	Microwave-Assisted Synthesis of Stretchable and Transparent Poly(Ethyleneglycol-Sebacate) Elastomers with Autonomous Self-Healing and Capacitive Properties. <b>2021</b> , 8, 262-272	1
534	Self-healing polymers. <b>2020</b> , 5, 562-583	272
533	Super Tough and Self-Healable Poly(dimethylsiloxane) Elastomer via Hydrogen Bonding Association and Its Applications as Triboelectric Nanogenerators. <b>2020</b> , 12, 31975-31983	28
532	Constructing Electrically and Mechanically Self-Healing Elastomers by Hydrogen Bonded Intermolecular Network. <b>2020</b> , 36, 3029-3037	23
531	Preparation of multi-temperature responsive elastomers by generating ionic networks in 1,2-polybutadiene using an anionic melting method. <b>2020</b> , 16, 3686-3694	2
530	Synthesis of Metallopolymers and Direct Visualization of the Single Polymer Chain. <b>2020</b> , 142, 6196-6205	24
529	Polyvinyl Alcohol/SiO2 Hybrid Dielectric for Transparent Flexible/Stretchable All-Carbon-Nanotube Thin-Film-Transistor Integration. <b>2020</b> , 6, 1901133	14
528	Smart Cellulose-Based Electronic Skin with Humidity-Driven Dynamic Performance. <b>2020</b> , 2, 87-89	2
527	Tuning polymer properties of non-covalent crosslinked PDMS by varying supramolecular interaction strength. <b>2020</b> , 11, 2847-2854	11
526	Self-Healing Materials for Energy-Storage Devices. <b>2020</b> , 30, 1909912	57
525	Improving the capacity and cycling-stability of Lithium ulfur batteries using self-healing binders containing dynamic disulfide bonds. <b>2020</b> , 4, 2760-2767	15
524	A Soft Sensorized Microfluidic Tubular Actuating Gripper. <b>2020</b> , 5, 2000150	4

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523	elastomer for bending sensor. <b>2020</b> , 570, 1-10	35
522	In Situ Swelling-Gated Chemical Sensing Actuator. <b>2020</b> , 1, 100011	5
521	Tuning the Mechanical Properties of Metallopolymers via Ligand Interactions: A Combined Experimental and Theoretical Study. <b>2020</b> , 53, 2021-2030	10
520	Metal-organic polyhedra crosslinked supramolecular polymeric elastomers. <b>2020</b> , 56, 8031-8034	10
519	A type of self-healable, dissoluble and stretchable organosilicon elastomer for flexible electronic devices. <b>2020</b> , 134, 109857	10
518	The Potential of Electrospinning/Electrospraying Technology in the Rational Design of Hydrogel Structures. <b>2020</b> , 305, 2000285	15
517	Self-recovery, fatigue and anti-fatigue of supramolecular elastomers. <b>2020</b> , 134, 105496	1
516	Regular H-Bonding-Containing Polymers with Stretchability up to 100% External Strain for Self-Healable Plastic Transistors. <b>2020</b> , 32, 1914-1924	35
515	Toughening a Self-Healable Supramolecular Polymer by Ionic Cluster-Enhanced Iron-Carboxylate Complexes. <b>2020</b> , 59, 5278-5283	83
5 <sup>1</sup> 4	Design and development of self-repairable and recyclable crosslinked poly(thiourethane-urethane) via enhanced aliphatic disulfide chemistry. <b>2020</b> , 58, 1092-1104	13
513	Self-healing, luminescent metallogelation driven by synergistic metallophilic and fluorine-fluorine interactions. <b>2020</b> , 16, 2795-2802	5
512	Self-Healing, Flexible, and Tailorable Triboelectric Nanogenerators for Self-Powered Sensors based on Thermal Effect of Infrared Radiation. <b>2020</b> , 30, 1910723	59
511	Toughening a Self-Healable Supramolecular Polymer by Ionic Cluster-Enhanced Iron-Carboxylate Complexes. <b>2020</b> , 132, 5316-5321	23
510	Stiffness switchable supramolecular hydrogels by photo-regulating crosslinking status. <b>2020</b> , 177, 108288	8
509	Design of a mechanically strong and highly stretchable thermoplastic silicone elastomer based on coulombic interactions. <b>2020</b> , 8, 5943-5951	21
508	Transparent conductive elastomers with excellent autonomous self-healing capability in harsh organic solvent environments. <b>2020</b> , 8, 5056-5061	30
507	Reactive Functionally Terminated Polyorganosiloxanes. <b>2020</b> , 23-61	1
506	Redox-Active Iron-Citrate Complex Regulated Robust Coating-Free Hydrogel Microfiber Net with High Environmental Tolerance and Sensitivity. <b>2020</b> , 30, 1910387	38

505	A Skin-Conformal, Stretchable, and Breathable Fiducial Marker Patch for Surgical Navigation Systems. <b>2020</b> , 11,	1
504	Supramolecular Photonic Elastomers with Brilliant Structural Colors and Broad-Spectrum Responsiveness. <b>2020</b> , 30, 2000008	28
503	Highly Stretchable and Fast Self-Healing Luminescent Materials. 2020, 12, 13239-13247	23
502	Waterproof, Highly Tough, and Fast Self-Healing Polyurethane for Durable Electronic Skin. <b>2020</b> , 12, 11072-11083	68
501	Toward strong self-healing polyisoprene elastomers with dynamic ionic crosslinks. <b>2020</b> , 16, 3384-3394	13
500	Protein-Inspired Self-Healable TiC MXenes/Rubber-Based Supramolecular Elastomer for Intelligent Sensing. <b>2020</b> , 14, 2788-2797	83
499	Robust, reprocessable and shape-memory vinylogous urethane vitrimer composites enhanced by sacrificial and self-catalysis Zn(II)[Igand bonds. <b>2020</b> , 190, 108062	21
498	Supersoft, Stretchable, Tough, and Adhesive Elastomers with Dual Metal-Ionic Crosslinked Double-Network Structure. <b>2020</b> , 221, 1900516	5
497	Self-Polymerized Dopamine-Decorated Au NPs and Coordinated with Fe-MOF as a Dual Binding Sites and Dual Signal-Amplifying Electrochemical Aptasensor for the Detection of CEA. <b>2020</b> , 12, 5500-5510	44
496	Tunable Adhesion from Stoichiometry-Controlled and Sequence-Defined Supramolecular Polymers Emerges Hierarchically from Cyanostar-Stabilized Anion-Anion Linkages. <b>2020</b> , 142, 2579-2591	26
495	Bioinspired Self-Healing of Kinetically Inert Hydrogels Mediated by Chemical Nutrient Supply. <b>2020</b> , 12, 6471-6478	18
494	Self-healing and shape memory metallopolymers: state-of-the-art and future perspectives. <b>2020</b> , 49, 3042-3087	30
493	Self-Healing Metallo-Supramolecular Amphiphilic Polymer Conetworks. <b>2020</b> , 221, 1900432	13
492	Self-healing, reprocessing and 3D printing of transparent and hydrolysis-resistant silicone elastomers. <b>2020</b> , 387, 124142	45
491	Self-Healable Hydrogel-Liquid Metal Composite Platform Enabled by a 3D Printed Stamp for a Multimodular Sensor System. <b>2020</b> , 12, 9824-9832	23
490	Robust, stretchable and photothermal self-healing polyurethane elastomer based on furan-modified polydopamine nanoparticles. <b>2020</b> , 190, 122219	27
489	Dynamic and Programmable Cellular-Scale Granules Enable Tissue-like Materials. <b>2020</b> , 2, 948-964	11
488	A Self-Healing Polymer with Fast Elastic Recovery upon Stretching. <b>2020</b> , 25,	6

487	Cytoskeleton-inspired artificial protein design to enhance polymer network elasticity. <b>2020</b> , 53, 3464-3471	3
486	Electrically Driven Artificial Muscles Using Novel Polysiloxane Elastomers Modified with Nitroaniline Push-Pull Moieties. <b>2020</b> , 12, 23432-23442	17
485	Ferric Ions Modified Polyvinyl Alcohol for Enhanced Molecular Structure and Mechanical Performance. <b>2020</b> , 13,	2
484	A robust mechanochromic self-healing poly(dimethylsiloxane) elastomer. <b>2020</b> , 63, 740-747	6
483	Chitosan in-situ grafted magnetite nanoparticles toward mechanically robust and electrically conductive ionic-covalent nanocomposite hydrogels with sensitive strain-responsive resistance. <b>2020</b> , 195, 108173	29
482	Fast room-temperature self-healing siloxane elastomer for healable stretchable electronics. <b>2020</b> , 573, 105-114	22
481	Preparation of highly transparent, room-temperature self-healing and recyclable silicon elastomers based on dynamic imine bond and their ion responsive properties. <b>2020</b> , 268, 127598	13
480	Fracture of tough and stiff metallosupramolecular hydrogels. <b>2020</b> , 13, 100202	9
479	Inorganic Nanotube Mesophases Enable Strong Self-Healing Fibers. <b>2020</b> , 14, 5570-5580	13
478	Free-Form and Deformable Energy Storage as a Forerunner to Next-Generation Smart Electronics. <b>2020</b> , 11,	6
477	Achievement of Both Mechanical Properties and Intrinsic Self-Healing under Body Temperature in Polyurethane Elastomers: A Synthesis Strategy from Waterborne Polymers. <b>2020</b> , 12,	10
476	Self-Detecting and Self-Healing Reinforce Elastomer Doped with Aggregation-Induced Emission Molecules. <b>2020</b> , 305, 2000013	5
475	Skin-inspired cellulose conductive hydrogels with integrated self-healing, strain, and thermal sensitive performance. <b>2020</b> , 240, 116360	40
474	Universally autonomous self-healing elastomer with high stretchability. <b>2020</b> , 11, 2037	126
473	Structure and Dielectric Properties of Electroactive Tetraaniline Grafted Non-Polar Elastomers. <b>2020</b> , 4, 25	5
472	A novel type of self-healing silicone elastomers with reversible cross-linked network based on the disulfide, hydrogen and metal-ligand bonds. <b>2020</b> , 144, 105661	13
471	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. <b>2020</b> , 59, 12139-12146	30
470	Self-healing flexible sensor based on metal-ligand coordination. <b>2020</b> , 394, 124932	20

469	Preparation and research of intrinsic self-healing elastomers based on hydrogen and ionic bond. <b>2020</b> , 193, 108127	29
468	Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics. <b>2021</b> , 8, nwaa154	18
467	Synergy between dynamic covalent boronic ester and boron-nitrogen coordination: strategy for self-healing polyurethane elastomers at room temperature with unprecedented mechanical properties. <b>2021</b> , 8, 216-223	51
466	Mechanically Stable Dynamic Urea Bond-Based Crosslinked Polymer Blend with Tunable Self-Healable and Physical Properties. <b>2021</b> , 306, 2000527	3
465	Versatile value-added application of hyperbranched lignin derivatives: Water-resistance adhesive, UV protection coating, self-healing and skin-adhesive sensing. <b>2021</b> , 404, 126358	13
464	Preparation of fluorosilicone rubber containing perfluorocyclobutyl aryl ether. <b>2021</b> , 32, 538-543	O
463	Multiple H-Bonding Chain Extender-Based Ultrastiff Thermoplastic Polyurethanes with Autonomous Self-Healability, Solvent-Free Adhesiveness, and AIE Fluorescence. <b>2021</b> , 31, 2006944	50
462	The Relationship between Pendant Phosphate Groups and Mechanical Properties of Polyisoprene Rubber. <b>2021</b> , 39, 465-473	1
461	Dynamic siloxane materials: From molecular engineering to emerging applications. <b>2021</b> , 405, 127023	22
460	Mechanical nondiscoloring and antistretching photonic crystal films based on Zn2+ coordination and hydroxypropyl methylcellulose. <b>2021</b> , 138, 49916	2
459	Nickel(II)-pyridinedicarboxamide-co-polydimethylsiloxane complexes as elastic self-healing silicone materials with reversible coordination. <b>2021</b> , 212, 123119	7
458	Improving Dielectric Constant of Polymers through Liquid Electrolyte Inclusion. <b>2021</b> , 31, 2007863	10
457	From Molecules to Polymers-Harnessing Inter- and Intramolecular Interactions to Create Mechanochromic Materials. <b>2021</b> , 42, e2000573	30
456	HASEL Artificial Muscles for a New Generation of Lifelike Robots-Recent Progress and Future Opportunities. <b>2021</b> , 33, e2003375	32
455	From prevention to diagnosis and treatment: Biomedical applications of metal nanoparticle-hydrogel composites. <b>2021</b> , 122, 1-25	21
454	Progress and Roadmap for Intelligent Self-Healing Materials in Autonomous Robotics. <b>2021</b> , 33, e2002800	29
453	Self-healable ultrahydrophobic modified bio-based elastomer using Diels-Alder Elick chemistry December 2021, 146, 110204	3
452	A supramolecular polymer with ultra-stretchable, notch-insensitive, rapid self-healing and adhesive properties. <b>2021</b> , 12, 660-669	8

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451	Robust, healable and hydrophobically recoverable polydimethylsiloxane based supramolecular material with dual-activate hard segment. <b>2021</b> , 64, 423-432	3
450	Stretchable electrodes for highly flexible electronics. <b>2021</b> , 479-500	1
449	Self-healing polymer/carbon nanotube nanocomposite: A review. <b>2021</b> , 37, 160-181	10
448	Stretchable Electronics Based on PDMS Substrates. <b>2021</b> , 33, e2003155	98
447	Recent advances in polysaccharide-based hydrogels for synthesis and applications. 2021, 2, e21	23
446	Anomalous Diffusion in Associative Networks of High-Sticker-Density Polymers. <b>2021</b> , 54, 1354-1365	5
445	Robust superhydrophobicity: mechanisms and strategies. <b>2021</b> , 50, 4031-4061	86
444	Highly stretchable, bionic self-healing waterborne polyurethane elastic film enabled by multiple hydrogen bonds for flexible strain sensors.	5
443	Hydrogel: Diversity of Structures and Applications in Food Science. <b>2021</b> , 37, 313-372	20
442	Intrinsically stretchable polymer semiconductors: molecular design, processing and device applications. <b>2021</b> , 9, 2660-2684	13
441	Self-healing, highly elastic and amphiphilic silicone-based polyurethane for antifouling coatings. <b>2021</b> , 9, 1384-1394	11
440	Spontaneously Self-Regenerative Hybrid Luminescent Hydrogel. <b>2021</b> , 3, 604-609	5
439	Wholly Biobased, Highly Stretchable, Hydrophobic, and Self-healing Thermoplastic Elastomer. <b>2021</b> , 13, 6720-6730	17
438	Construction of a thermoreversible chemical crosslinking network has new exploration for the efficient reusability of commercial rubber. <b>2021</b> , 12, 4472-4477	O
437	Bioinspired modified graphene oxide/polyurethane composites with rapid self-healing performance and excellent mechanical properties <b>2021</b> , 11, 14665-14677	7
436	Photonic Vitrimer Elastomer with Self-Healing, High Toughness, Mechanochromism, and Excellent Durability based on Dynamic Covalent Bond. <b>2021</b> , 31, 2009017	25
435	Effect of sticker clustering on the dynamics of associative networks. <b>2021</b> , 17, 8960-8972	2
434	Self-healing, recyclable, and removable UV-curable coatings derived from tung oil and malic acid. <b>2021</b> , 23, 5875-5886	11

433	A self-healable, stretchable, tear-resistant and sticky elastomer enabled by a facile polymer blends strategy. <b>2021</b> , 9, 3931-3939	8
432	Mechanically enhanced healable and recyclable silicone with dynamic hindered urea bond for flexible electronics. <b>2021</b> , 9, 8579-8588	6
431	Thermal and mechanical activation of dynamically stable ionic interaction toward self-healing strengthening elastomers. <b>2021</b> , 8, 2553-2561	7
430	A waterborne polyurethaneBased leather finishing agent with excellent room temperature self-healing properties and wear-resistance. <b>2021</b> , 4, 138-149	19
429	Dual-Responsive Self-Healable Carboxylated Acrylonitrile Butadiene Rubber Based on Dynamic Diels Alder Click Chemistry and Disulfide Metathesis Reaction. <b>2021</b> , 306, 2000626	4
428	Mechanically Robust and Recyclable Styrene <b>B</b> utadiene Rubber Cross-Linked via Cu2+ <b>N</b> itrogen Coordination Bond after a Tetrazine Click Reaction. <b>2021</b> , 60, 2163-2177	2
427	Highly stretchable and strong poly(butylene maleate) elastomers via metallgand interactions. <b>2021</b> , 12, 893-902	1
426	Transition-metal coordinate bonds for bioinspired macromolecules with tunable mechanical properties. <b>2021</b> , 6, 421-436	37
425	Polypyrrole-Doped Conductive Self-Healing Composite Hydrogels with High Toughness and Stretchability. <b>2021</b> , 22, 1273-1281	15
424	Wearable Biosensors: An Alternative and Practical Approach in Healthcare and Disease Monitoring. <b>2021</b> , 26,	43
423	High-Throughput Screening of Self-Healable Polysulfobetaine Hydrogels and their Applications in Flexible Electronics. <b>2021</b> , 31, 2100489	10
422	How Shape Memory Effects can Contribute to Improved Self-Healing Properties in Polymer Materials. <b>2021</b> , 54, 2506-2517	2
421	Reversible stimuli-responsive luminescent polymers with adaptable mechanical properties based on europium-malonate complex. <b>2021</b> , 214, 123259	1
420	Robust, Self-Healable Siloxane Elastomers Constructed by Multiple Dynamic Bonds for Stretchable Electronics and Microsystems. <b>2021</b> , 60, 2154-2162	5
419	Physical networks from entropy-driven non-covalent interactions. <b>2021</b> , 12, 746	13
418	Ultrarobust, tough and highly stretchable self-healing materials based on cartilage-inspired noncovalent assembly nanostructure. <b>2021</b> , 12, 1291	105
417	Mechanically robust and self-healable perovskite solar cells. <b>2021</b> , 2, 100320	12
416	Flexible Sensors Based on OrganicIhorganic Hybrid Materials. <b>2021</b> , 6, 2000889	10

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415	Printable, Down/Up-Conversion Triple-Mode Fluorescence Responsive and Colorless Self-Healing Elastomers with Superior Toughness. <b>2021</b> , 31, 2100211	15
414	Iron (III) cross-linked thermoplastic nitrile butadiene elastomer with temperature-adaptable self-healing property. <b>2021</b> , 28, 1	O
413	Enabling Superior Thermo-Oxidative Resistance Elastomers Based on a Structure Recovery Strategy. <b>2021</b> , 42, e2000762	O
412	Piezoelectric-Driven Self-Sensing Leaf-Mimic Actuator Enabled by Integration of a Self-Healing Dielectric Elastomer and a Piezoelectric Composite. <b>2021</b> , 3, 2000248	1
411	A conductive rubber with self-healing ability enabled by metal-ligand coordination. <b>2021</b> , 32, 2531-2540	1
410	Preparation of mechanically robust and autonomous self-healable elastomer based on multiple dynamic interactions. <b>2021</b> , 146, 110257	4
409	Effects of Counter Anions on AC and DC Electrical Conductivity in Poly(Dimethylsiloxane) Crosslinked by Metal-Ligand Coordination. <b>2021</b> , 13,	2
408	Transparent and mechanically strong hydrogen-bonded polymer complex elastomers with improved self-healability under ambient conditions. <b>2021</b> , 218, 123461	Ο
407	Self-healing materials enable free-standing seamless large-scale 3D printing. <b>2021</b> , 64, 1791-1800	8
406	Speed-Induced Extensibility Elastomers with Good Resilience and High Toughness. <b>2021</b> , 54, 3358-3365	3
405	Highly stretchable, soft and sticky PDMS elastomer by solvothermal polymerization process. <b>2021</b> , 14, 3636-3642	6
404	An overview of self-engineering systems. <b>2021</b> , 32, 397-447	4
403	Tunnel elasticity enhancement effect of 3D submicron ceramics (Al2O3, TiO2, ZrO2) fiber on polydimethylsiloxane (PDMS). <b>2021</b> , 10, 502-508	1
402	Stretchable, robust and reprocessable poly(siloxane-urethanes) elastomers based on exchangeable aromatic disulfides. <b>2021</b> , 221, 123588	6
401	SBS Thermoplastic Elastomer Based on Dynamic Metal-Ligand Bond: Structure, Mechanical Properties, and Shape Memory Behavior. <b>2021</b> , 306, 2000737	5
400	Mechanical and Structural Consequences of Associative Dynamic Cross-Linking in Acrylic Diblock Copolymers. <b>2021</b> , 54, 3972-3986	14
399	Clip Chemistry: Diverse (Bio)(macro)molecular and Material Function through Breaking Covalent Bonds. <b>2021</b> , 121, 7059-7121	19
398	Self-healing flexible/stretchable energy storage devices. <b>2021</b> , 44, 78-104	23

397	Rapid and Local Self-Healing Ability of Polyurethane Nanocomposites Using Photothermal Polydopamine-Coated Graphene Oxide Triggered by Near-Infrared Laser. <b>2021</b> , 13,	4
396	A polyurethane integrating self-healing, anti-aging and controlled degradation for durable and eco-friendly E-skin. <b>2021</b> , 410, 128363	20
395	Organic montmorillonite and doped polyaniline-enhanced self-healing polydimethylsiloxane. <b>2021</b> , 36, 1730-1739	О
394	Photothermal and magnetocaloric-stimulated shape memory and self-healing via magnetic polymeric composite with dynamic crosslinking. <b>2021</b> , 223, 123677	3
393	Carbon Nanotube Hybrid Yarn with Mechanically Strong Healable Silicone Elastomers for Artificial Muscle. <b>2021</b> , 4, 5123-5130	6
392	Sticky Rouse Time Features the Self-Adhesion of Supramolecular Polymer Networks. <b>2021</b> , 54, 5053-5064	2
391	Soft Electronic Materials with Combinatorial Properties Generated Mussel-Inspired Chemistry and Halloysite Nanotube Reinforcement. <b>2021</b> , 15, 9531-9549	10
390	Self-Healing Materials in Robotics. <b>2021</b> , 405-414	
389	Dynamic Covalent Bonds of Si-OR and Si-OSi Enabled A Stiff Polymer to Heal and Recycle at Room Temperature. <b>2021</b> , 14,	2
388	Smart Phenolics for Self-Healing and Shape Memory Applications. <b>2021</b> , 39-63	
387	Self-healing and stretchable PDMS-based bifunctional sensor enabled by synergistic dynamic interactions. <b>2021</b> , 412, 128734	11
386	Digital Light Processing 3D Printing of PDMS-Based Soft and Elastic Materials with Tunable Mechanical Properties. <b>2021</b> , 3, 3049-3059	3
385	Self-Healable Silicone Elastomer Based on the Synergistic Effect of the Coordination and Ionic Bonds. <b>2021</b> , 3, 2667-2677	3
384	Phosphate enhanced self-healing property of phenylborate-based hydrogel at neutral environment. <b>2021</b> , 225, 123749	1
383	On the understanding of dielectric elastomer and its application for all-soft artificial heart. <b>2021</b> , 66, 981-990	7
382	Design and fabrication of mechanically strong and self-healing rubbers via metal-ligand coordination bonds as dynamic crosslinks. <b>2021</b> , 207, 108750	10
381	Anti-corrosion coating within a polymer network: Enabling photothermal repairing underwater. <b>2021</b> , 412, 128640	11
380	Novel Self-Healing Metallocopolymers with Pendent 4-Phenyl-2,2':6',2?-terpyridine Ligand: Kinetic Studies and Mechanical Properties. <b>2021</b> , 13,	2

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379	Toughening, recyclable and healable nitrile rubber based on multi-coordination crosslink networks after <b>E</b> etrazine click <b>I</b> reaction. <b>2021</b> , 150, 110415	3
378	ExoForm: Shape Memory and Self-Fusing Semi-Rigid Wearables. <b>2021</b> ,	O
377	Stiff, Self-Healable, Transparent Polymers with Synergetic Hydrogen Bonding Interactions. <b>2021</b> , 33, 5189-5196	11
376	A Fast Autonomous Healing Magnetic Elastomer for Instantly Recoverable, Modularly Programmable, and Thermorecyclable Soft Robots. <b>2021</b> , 31, 2101825	16
375	Stretchable Transparent Light-Emitting Diodes Based on InGaN/GaN Quantum Well Microwires and Carbon Nanotube Films. <b>2021</b> , 11,	2
374	Research progress on self-healing polymer/graphene anticorrosion coatings. <b>2021</b> , 155, 106231	10
373	Challenges and Opportunities of Self-Healing Polymers and Devices for Extreme and Hostile Environments. <b>2021</b> , 33, e2008052	15
372	Rugged Soft Robots using Tough, Stretchable, and Self-Healable Adhesive Elastomers. <b>2021</b> , 31, 2103097	15
371	Towards a new class of stimuli-responsive polymer-based materials (Recent advances and challenges. <b>2021</b> , 4, 100068	16
370	The rise of intelligent matter. <b>2021</b> , 594, 345-355	63
369	Highly Transparent, Stretchable, and Self-Healable Ionogel for Multifunctional Sensors, Triboelectric Nanogenerator, and Wearable Fibrous Electronics. 1	25
368	Universal Self-Healing Poly(dimethylsiloxane) Polymer Crosslinked Predominantly by Physical Entanglements. <b>2021</b> , 13, 31129-31139	9
367	Coordination Mode-Regulated Lanthanide Supramolecular Hydrogels with Tunable Luminescence and Stimuli-Responsive Properties. <b>2021</b> , 3, 3623-3630	8
366	Solution-Processable and Thermostable Super-Strong Poly(aryl ether ketone) Supramolecular Thermosets Cross-Linked with Dynamic Boroxines. <b>2021</b> , 31, 2103061	10
365	Cross-linked polymer networks based on polysiloxane and nickel	1
364	Soft Actuator Materials for Electrically Driven Haptic Interfaces. 2100061	4
363	Piperazine-containing polyamide complexes with Co2+ ions and the related solvatochromic effect. <b>2021</b> , 164, 104927	2
362	Facile synthesis of PET-based poly(ether ester)s with striking physical and mechanical properties. <b>2021</b> , 164, 104936	2

361	Ultrafast and high-efficient self-healing epoxy coatings with active multiple hydrogen bonds for corrosion protection. <b>2021</b> , 187, 109485	18
360	Rationally Constructed Surface Energy and Dynamic Hard Domains Balance Mechanical Strength and Self-Healing Efficiency of Energetic Linear Polymer Materials. <b>2021</b> , 37, 8997-9008	4
359	Polymer Network Editing of Elastomers for Robust Underwater Adhesion and Tough Bonding to Diverse Surfaces. <b>2021</b> , 13, 36527-36537	2
358	Self-Healing Lamellar Silsesquioxane Thin Films. <b>2021</b> , 3, 4118-4126	1
357	Polymers with Dynamic Bonds: Adaptive Functional Materials for a Sustainable Future. <b>2021</b> , 125, 9389-9401	12
356	A new triboelectric nanogenerator with excellent electric breakdown self-healing performance. <b>2021</b> , 85, 105990	14
355	Aggregate Engineering in Supramolecular Polymers via Extensive Non-covalent Networks. <b>2021</b> , 39, 1310-1318	3
354	Mechanomaterials: A Rational Deployment of Forces and Geometries in Programming Functional Materials. <b>2021</b> , 33, e2007977	10
353	Self-Healing Solid Polymer Electrolyte with High Ion Conductivity and Super Stretchability for All-Solid Zinc-Ion Batteries. <b>2021</b> , 13, 36320-36329	8
352	Dragonfly wing-inspired architecture makes a stiff yet tough healable material. <b>2021</b> , 4, 2474-2489	22
351	Mussel-inspired and aromatic disulfide-mediated polyurea-urethane with rapid self-healing performance and water-resistance. <b>2021</b> , 593, 105-115	12
350	A review on self-healing polymers for soft robotics. <b>2021</b> , 47, 187-205	32
349	Intrinsically self-healing and stretchy poly(urethane-urea) elastomer based on dynamic urea bonds and thiol-ene click reaction. <b>2021</b> , 267, 124642	2
348	Advances and Novel Perspectives on Colloids, Hydrogels, and Aerogels Based on Coordination Bonds with Biological Interest Ligands. <b>2021</b> , 11,	1
347	Structural Features of Polymer Ligand Environments Dramatically Affect the Mechanical and Room-Temperature Self-Healing Properties of Cobalt(II)-Incorporating Polysiloxanes. <b>2021</b> , 40, 2750-2760	2
346	A solvent-free, transparent, self-healing polysiloxanes elastomer based on unsaturated carboxyl-amino ionic hydrogen bonds. <b>2021</b> , 228, 123903	2
345	Effect of chain extender on microphase structure and performance of self-healing polyurethane and poly(urethane-urea). <b>2021</b> , 138, 51371	О
344	Autonomous self-repair in piezoelectric molecular crystals. <b>2021</b> , 373, 321-327	26

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343	Multi-Functional Hydrogels for Flexible Zinc-Based Batteries Working under Extreme Conditions. <b>2021</b> , 11, 2101749	38
342	Versatile Applications of Metallopolymers. <b>2021</b> , 119, 101428	4
341	Construction of sacrificial network in styrene-ethylene/butadiene-styrene triblock copolymer composites and their mechanical behaviors. 1-10	0
340	Supramolecular Polymer Networks with Enhanced Mechanical Properties: The Marriage of Covalent Polymer and Metallacycle <b>2021</b> , 39, 2731-2737	6
339	Construction of Mechanically Reinforced Thermoplastic Polyurethane from Carbon Dioxide-Based Poly(ether carbonate) Polyols via Coordination Cross-Linking. <b>2021</b> , 13,	1
338	Milestones and current achievements in development of multifunctional bioscaffolds for medical application. <b>2021</b> , 6, 2412-2438	20
337	Self-reinforced hydrogels toughen upon stretching. <b>2021</b> , 4, 2664-2665	1
336	A tough and self-fusing elastomer tape. <b>2021</b> , 417, 127967	3
335	Rheological criteria for distinguishing self-healing and non-self-healing hydrogels. <b>2021</b> , 229, 123969	2
334	Mechanical Properties with Respect to Water Content of Host <b>©</b> uest Hydrogels. <b>2021</b> , 54, 8067-8076	8
333	A Tough and Self-Healing Polymer Enabled by Promoting Bond Exchange in Boronic Esters with Neighboring Hydroxyl Groups. <b>2021</b> , 3, 1328-1338	7
332	Self-Healing of Elastomers. <b>2021</b> , 269-303	
331	Preparation of room-temperature self-healing elastomers with high strength based on multiple dynamic bonds. <b>2021</b> , 156, 110614	2
330	Multifunctional Polysiloxane with coordinative ligand for ion recognition, reprocessable elastomer, and reconfigurable shape memory. <b>2021</b> , 229, 124021	1
329	A highly stretchable and room temperature autonomous self-healing supramolecular organosilicon elastomer with hyperbranched structure. <b>2021</b> , 156, 110618	7
328	Dynamic Oxime-Urethane Bonds, a Versatile Unit of High Performance Self-healing Polymers for Diverse Applications. <b>2021</b> , 39, 1281-1291	3
327	Photoswitchable Ion-Conducting Supramolecular Hydrogel Showing Adverse Photoconductivity Triggered by Anion Exchange. <b>2021</b> , 3, 4563-4571	4
326	Main-Side Chain Hydrogen Bonding-Based Self-Healable Polyurethane with Highly Stretchable, Excellent Mechanical Properties for Self-Healing Acid-Base Resistant Coating. <b>2021</b> , 42, e2100364	1

325	Polymer Pressure-Sensitive Adhesive with A Temperature-Insensitive Loss Factor Operating Under Water and Oil. 2104296	9
324	Toughening and Healing of CFRPs by Electrospun DielsAlder Based Polymers Modified with Carbon Nano-Fillers. <b>2021</b> , 5, 242	О
323	Evaluation for the actuation performance of dielectric elastomer actuator using polyisoprene elastomer with dynamic ionic crosslinks. <b>2021</b> , 113143	О
322	Examining the Effects of a Self-healing Elastomer on the Properties of Bitumen. <b>2022</b> , 857-863	1
321	Highly Stretchable Fully Biomass Autonomic Self-Healing Polyamide Elastomers and Their Foam for Selective Oil Absorption. <b>2021</b> , 13,	1
320	Elastic MXene Hydrogel Microfiber-Derived Electronic Skin for Joint Monitoring. <b>2021</b> , 13, 47800-47806	12
319	Mechanically Strong, Autonomous Self-Healing, and Fully Recyclable Silicone Coordination Elastomers with Unique Photoluminescent Properties. <b>2021</b> , e2100519	5
318	A Puncture-Resistant and Self-Healing Conductive Gel for Multifunctional Electronic Skin. 2107006	9
317	Triphasic Polymer Particles Assembled via Microphase Separation with Multiple Functions. <b>2021</b> , 37, 11818-11834	
316	High Energy Density Shape Memory Polymers Using Strain-Induced Supramolecular Nanostructures. <b>2021</b> , 7, 1657-1667	12
316 315		2
	Nanostructures. <b>2021</b> , 7, 1657-1667  Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid	
315	Nanostructures. 2021, 7, 1657-1667  Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid interpenetrating structure. 2021, 149, 106519  Synthesis and application of self-healing elastomers with high healing efficiency and mechical	2
315 314	Nanostructures. 2021, 7, 1657-1667  Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid interpenetrating structure. 2021, 149, 106519  Synthesis and application of self-healing elastomers with high healing efficiency and mechical properties based on multi-healing systems. 2021, 159, 110769	2
315 314 313	Nanostructures. 2021, 7, 1657-1667  Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid interpenetrating structure. 2021, 149, 106519  Synthesis and application of self-healing elastomers with high healing efficiency and mechical properties based on multi-healing systems. 2021, 159, 110769  Flexible stimuli-responsive materials for smart personal protective equipment. 2021, 146, 100629  Mussel-inspired waterproof and self-healing polyurethane with enhanced mechanical properties.	2 4
315 314 313 312	Nanostructures. 2021, 7, 1657-1667  Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid interpenetrating structure. 2021, 149, 106519  Synthesis and application of self-healing elastomers with high healing efficiency and mechical properties based on multi-healing systems. 2021, 159, 110769  Flexible stimuli-responsive materials for smart personal protective equipment. 2021, 146, 100629  Mussel-inspired waterproof and self-healing polyurethane with enhanced mechanical properties. 2021, 159, 110751  Recent advancements in self-healing composite elastomers for flexible strain sensors: Materials,	2 4
315 314 313 312 311	Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid interpenetrating structure. 2021, 149, 106519  Synthesis and application of self-healing elastomers with high healing efficiency and mechical properties based on multi-healing systems. 2021, 159, 110769  Flexible stimuli-responsive materials for smart personal protective equipment. 2021, 146, 100629  Mussel-inspired waterproof and self-healing polyurethane with enhanced mechanical properties. 2021, 159, 110751  Recent advancements in self-healing composite elastomers for flexible strain sensors: Materials, healing systems, and features. 2021, 329, 112800  Oligopeptide binding guided by spacer length lead to remarkably strong and stable network of	2 2 4 1

307	Bio-inspired zwitterionic polymeric chelating assembly for treatment of copper-induced cytotoxicity and hemolysis. <b>2021</b> , 129, 112367	O
306	A NIR laser induced self-healing PDMS/Gold nanoparticles conductive elastomer for wearable sensor. <b>2021</b> , 599, 360-369	7
305	Bioinspired extremely rapid self-repairing coatings for long-life repeated features. <b>2021</b> , 424, 130568	1
304	Utilisation of photo-thermal energy and bond enthalpy based on optically triggered formation and dissociation of coordination bonds. <b>2021</b> , 89, 106401	6
303	Chain breaking in the statistical mechanical constitutive theory of polymer networks. <b>2021</b> , 156, 104593	1
302	Sodium alginate crosslinked oxidized natural rubber supramolecular network with rapid self-healing at room temperature and improved mechanical properties. <b>2021</b> , 150, 106601	7
301	Recent advancements in self-healing materials: Mechanicals, performances and features. <b>2021</b> , 168, 105041	8
300	Mechanically robust, highly adhesive and autonomously low-temperature self-healing elastomer fabricated based on dynamic metalligand interactions tailored for functional energetic composites. <b>2021</b> , 425, 130665	7
299	Enhanced mechanical and dielectric properties of natural rubber using sustainable natural hybrid filler. <b>2021</b> , 6, 100171	1
298	A low voltage-powered soft electromechanical stimulation patch for haptics feedback in human-machine interfaces. <b>2021</b> , 193, 113616	4
297	A type of silicones strengthened by vinylethylene carbonate functional polyorganosilsesquioxane and crosslinked by primary ammonia and cyclic carbonate reaction: Experimental and MD simulation studies. <b>2021</b> , 158, 104801	1
296	Multifunctional conductive hydrogels and their applications as smart wearable devices. <b>2021</b> , 9, 2561-2583	40
295	Fabrication of an autonomously self-healing flexible thin-film capacitor by slot-die coating.	1
294	Balancing the mechanical, electronic, and self-healing properties in conductive self-healing hydrogel for wearable sensor applications. <b>2021</b> , 8, 1795-1804	50
293	Polymerizable deep eutectic solvent-based mechanically strong and ultra-stretchable conductive elastomers for detecting human motions. <b>2021</b> , 9, 4890-4897	22
292	Mechanically tough yet self-healing transparent conductive elastomers obtained using a synergic dual cross-linking strategy. <b>2021</b> , 12, 2016-2023	7
291	Stretchable multifunctional hydrogels for sensing electronics with effective EMI shielding properties. <b>2021</b> , 17, 9057-9065	1
290	Superior actuation performance and healability achieved in a transparent, highly stretchable dielectric elastomer film. <b>2021</b> , 9, 12239-12247	1

289	Self-healing elastomers based on conjugated diolefins: a review. <b>2021</b> , 12, 1598-1621	5
288	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. <b>2021</b> , 3, 2000183	5
287	Coordination Geometry Preference Regulates the Structure and Dynamics of Metallo-Supramolecular Polymer Networks. <b>2021</b> , 54, 1388-1400	13
286	Sharpness recognition based on synergy between bio-inspired nociceptors and tactile mechanoreceptors. <b>2021</b> , 11, 2109	3
285	Crosslinking Strategies to Develop Hydrogels for Biomedical Applications. <b>2021</b> , 21-57	1
284	Hydrogen bond reinforced, transparent polycaprolactone-based degradable polyurethane. <b>2021</b> , 5, 5371-538	313
283	Extremely tough and healable elastomer realized via reducing the crystallinity of its rigid domain. <b>2021</b> , 12, 4778-4784	1
282	An Extremely Stretchable and Self-Healable Supramolecular Polymer Network. <b>2021</b> , 13, 4499-4507	9
281	Metalligand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors. <b>2021</b> , 31, 2009201	9
280	Flexible Self-Repairing Materials for Wearable Sensing Applications: Elastomers and Hydrogels. <b>2020</b> , 41, e2000444	35
279	A photoresponsive azopyridine-based supramolecular elastomer for self-healing strain sensors. <b>2020</b> , 395, 125079	10
278	Self-antiglare waterborne coating with superior mechanical robustness and highly efficient room-temperature self-healing capability. <b>2020</b> , 146, 105717	11
277	Skin-Inspired Electret Nanogenerator with Self-Healing Abilities. <b>2020</b> , 1, 100185	5
276	Mussel-like Surface Adhesion and Photoinduced Cooperative Deformation of Janus Particles. <b>2020</b> , 36, 14372-14385	2
275	Toward Robust, Tough, Self-Healable Supramolecular Elastomers for Potential Application in Flexible Substrates. <b>2021</b> , 13, 1135-1144	28
274	Mechanically Robust and Reprocessable Acrylate Vitrimers with Hydrogen-Bond-Integrated Networks for Photo-3D Printing. <b>2021</b> , 13, 1581-1591	9
273	Physical Bond Breaking in Associating Copolymer Liquids <b>2021</b> , 10, 122-128	9
272	Biomimetic Impact Protective Supramolecular Polymeric Materials Enabled by Quadruple H-Bonding. <b>2021</b> , 143, 1162-1170	24

## (2021-2018)

271	Self-assembly of metal-organic polyhedra into supramolecular polymers with intrinsic microporosity. <b>2018</b> , 9, 2506	109
270	Self-healable gradient copolymers. <b>2019</b> , 3, 464-471	25
269	Autonomous self-healing polyisoprene elastomers with high modulus and good toughness based on the synergy of dynamic ionic crosslinks and highly disordered crystals. <b>2020</b> , 11, 6549-6558	6
268	Mechanically robust, intrinsically self-healing crosslinked polymer enabled by dynamic urea bond exchange reaction. <b>2020</b> , 29, 115041	6
267	Repeatable room-temperature self-healing memory device based on gelatin films. 2020, 5, 045005	2
266	Molecular anisotropy and rearrangement as mechanisms of toughness and extensibility in entangled physical gels. <b>2020</b> , 4,	8
265	Understanding the molecular origin of shear thinning in associative polymers through quantification of bond dissociation under shear. <b>2020</b> , 4,	6
264	Bridging dynamic regimes of segmental relaxation and center-of-mass diffusion in associative protein hydrogels. <b>2020</b> , 2,	3
263	. <b>2020</b> , 27, 44-55	9
262	Dielectric elastomers: past, present, and potential future. 2018,	7
262 261	Dielectric elastomers: past, present, and potential future. <b>2018</b> ,  A Brief Overview on Preparation of Self-Healing Polymers and Coatings via Hydrogen Bonding Interactions. <b>2021</b> , 1, 18-36	7
	A Brief Overview on Preparation of Self-Healing Polymers and Coatings via Hydrogen Bonding	
261	A Brief Overview on Preparation of Self-Healing Polymers and Coatings via Hydrogen Bonding Interactions. <b>2021</b> , 1, 18-36  Unveiling the Effects of Interchain Hydrogen Bonds on Solution Gelation and Mechanical Properties	4
261 260	A Brief Overview on Preparation of Self-Healing Polymers and Coatings via Hydrogen Bonding Interactions. <b>2021</b> , 1, 18-36  Unveiling the Effects of Interchain Hydrogen Bonds on Solution Gelation and Mechanical Properties of Diarylfluorene-Based Semiconductor Polymers. <b>2020</b> , 2020, 3405826	4
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214	Advances in flexible organic field-effect transistors and their applications for flexible electronics. <b>2022</b> , 6,	32
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194	Coordination Geometry in Metallo-Supramolecular Polymer Networks.	O
193	Reconfigurable Crosslinking System via Asymmetric Metal-Ligand Coordination Strategy.	
192	Recent Advances of Self-Healing Polymer Materials via Supramolecular Forces for Biomedical Applications <b>2022</b> ,	O
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178	Healable and Recyclable Polymeric Materials with High Mechanical Robustness. <b>2022</b> , 4, 554-571	8
177	Exploiting Sodium Coordination in Alternating Monomer Sequences to Toughen Degradable Block Polyester Thermoplastic Elastomers <b>2022</b> , 55, 2290-2299	2
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173	Liquid metal-tailored gluten network for protein-based e-skin <b>2022</b> , 13, 1206	7
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156	Self-healing polyurethane with high strength and toughness based on a dynamic chemical strategy.	11
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153	Liquid-Free Ionic Conductive Elastomers with High Mechanical Strength and Rapid Healable Ability.	7
152	Basics of Self-Healing Late of the Art. <b>2022</b> , 1-63	
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144	A Robust and Self-healing Elastomer Achieved by Thio-毗iketone-Cu(II) Coordination and H-Bonding Dual Crosslinked System.	2
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131	Cross-Linked Luminescent Polymers Based on 即iketone-Modified Polysiloxanes and Organoeuropiumsiloxanes. <b>2022</b> , 14, 2554	O
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124	Wearable Sweat Biosensors on Sports Analysis. 1,	Ο
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117	Dynamically Cross-Linked Waterborne Polyurethanes: Transalkylation Exchange of CN Bonds Toward High Performance and Reprocessable Thermosets.	
116	Ultra-low-temperature self-healing polyurethane with enhanced strength and elongation based on dual synergetic crosslinking strategy. <b>2022</b> , 175, 111394	Ο
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109	Ultra-stretchable and ultra-low temperature self-healing polyurethane enabled by dual dynamic bonds strategy. <b>2022</b> , 178, 105364	O
108	Self-Healing Fibrous Membranes.	2
107	Transient Elastomers with High Dielectric Permittivity for Actuators, Sensors, and Beyond.	О
106	Stiff and stretchy? Topological control of hydrogen-bonding clusters for toughening elastomers. <b>2022</b> , 5, 2479-2481	
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97	Self-healing and anticorrosion coatings based on responsive polymers with metal coordination bonds. <b>2023</b> , 452, 139055	2
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95	Compartmentalized Janus droplets of photoresponsive cholesteric liquid crystals and poly(dimethylsiloxane)-based oligomers. <b>2022</b> , 18, 7402-7414	О
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91	Highly stretchable ionically crosslinked acrylate elastomers inspired by polyelectrolyte complexes.	Ο
90	Ferrocenyl-Containing Oligosiloxanes and Polysiloxanes: Synthesis, Properties, and Application.	Ο
89	Dynamic Bonds: Adaptable Timescales for Responsive Materials.	0
88	Making Polyisoprene Self-Healable through Microstructure Regulation by Rare-Earth Catalysts.	O
87	Rheological Characterization and Theoretical Modeling Establish Molecular Design Rules for Tailored Dynamically Associating Polymers. <b>2022</b> , 8, 1318-1327	1
86	Making Polyisoprene Self-Healable through Microstructure Regulation by Rare-Earth Catalysts.	O
85	Heteroleptic Coordination Polymer Electrolytes Initiated by Lewis-Acidic Eutectics for Solid ZincMetal Batteries.	0
84	Dynamic Bonds: Adaptable Timescales for Responsive Materials.	O
83	Exploring the Nanomechanical Properties of a Coordination-bond Based Supramolecular Polymer.	1
82	Efficient, Room-Temperature Self-Healing Polyurethane Elastomers with Superior Tensile Properties and Solvatochromic Capacities.	O
81	Bio-inspired Self-healing Flexible Films with Pomegranate-shaped Nanospheres Loaded Graphene for Electromagnetic Interference Shielding and Superhydrophobicity Performances.	0
80	Geometrically Curved Magnetic Field Sensors for Interactive Electronics. 2022, 375-401	Ο
79	Tough and body-temperature self-healing polysiloxane elastomers through building a double physical crosslinking network via competing non-covalent interactions.	О
78	Self-Healing Polymers for Electronics and Energy Devices.	O
77	Long-Lived Foams Stabilized by Rice Proteins Complexed to Transition Metal Ions. 2022,	1
76	Self-Healable Lithium-Ion Batteries: A Review. <b>2022</b> , 12, 3656	O
75	High-strength super-hydrophobic double-layered PBO nanofiber-polytetrafluoroethylene nanocomposite paper for high-performance wave-transparent applications. <b>2022</b> ,	2
74	In Situ SAXS Observation of Transient Network Behavior in Ionically Cross-Linked Polydimethylsiloxane Elastomer with Slow and Fast Stretching. <b>2022</b> , 55, 9126-9133	O

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72	Equilibration dynamics of a dynamic covalent network diluted in a metallosupramolecular polymer matrix. <b>2022</b> , 66, 1349-1364	o
71	Self-healing thermoplastic elastomeric materials: Challenges, opportunities and new approaches. <b>2022</b> , 181, 111658	0
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57	Quantitative Correlation between Bound Water and Mechanical Stress Relaxation in Dehydrated Metal-Coordinate Polymer Networks. <b>2022</b> , 34, 10329-10337	0
56	Structural Features of Eu3+ and Tb3+-Bipyridinedicarboxamide Complexes. <b>2022</b> , 14, 5540	O

55	Historical Perspectives and Recent Research on DNA Hydrogel-Based Stimuli-Responsive Systems and Bioengineering Applications.	0
54	Structure and properties of new biodegradable elastomers composed of poly(ethylene succinate)-based poly(ether ester)s and poly(lactic acid).	O
53	An Environmental-Inert and Highly Self-Healable Elastomer Obtained via Double-Terminal Aromatic Disulfide Design and Zwitterionic Crosslinked Network for Use as a Triboelectric Nanogenerator. 2202815	О
52	The personal protective equipment (PPE) based on individual combat: A systematic review and trend analysis. <b>2022</b> ,	Ο
51	A Self-repairing Transparent Film with Reprocessable, Ultra-high Strength and Outstanding Elasticity Based on Interlocking Hydrogen Bonds and Reversible Topological Networks. <b>2022</b> , 141137	O
50	Multiple Structure Reconstruction by Dual Dynamic Crosslinking Strategy Inducing Self-Reinforcing and Toughening the Polyurethane/Nanocellulose Elastomers. 2213294	O
49	3D-Printed Photocurable Resin with Synergistic Hydrogen Bonding Based on Deep Eutectic Solvent. <b>2023</b> , 5, 991-1001	0
48	Photosalient ionic cocrystal composed of trimesic acid and 4-styrylpyridine.	0
47	Study of a Mixed Conductive Layer Fabricated by Ion Implantation and Distribution Theory. <b>2023</b> , 15, 270	O
46	Stimuli-Responsive Flexible Organic Crystals.	O
45	A topological polymer network with Cu(II)-coordinated reversible imidazole-urea locked unit constructs an ultra-strong self-healing elastomer.	O
44	Highly stretchable, adhesive, and biocompatible hydrogel platforms of tannic acid functionalized spherical nanocellulose for strain sensors. <b>2023</b> , 229, 105-122	O
43	Construction of anisotropic near-infrared luminescent elastomers via magnetic orientation. <b>2023</b> , 257, 119646	О
42	Electrical Strength Tests of a Self-healable Copolymer Based on Ethylene and Anisylpropylene. <b>2022</b> ,	Ο
41	Intrinsically Self-Healing Polymers: From Mechanistic Insight to Current Challenges.	0
40	Multivalent Design of Low-Entropy-Penalty IonDipole Interactions for Dynamic Yet Thermostable Supramolecular Networks.	O
39	Closed-Loop Recycling of Carbon Fiber-Reinforced Composites Enabled by a Dual-Dynamic Cross-linked Epoxy Network. <b>2023</b> , 11, 1527-1539	О
38	Frequency-dependent Electrical Properties of Microscale Self-enclosed Ionic Liquid Enhanced Soft Composites.	O

37	Self-Healing Polyurethane Elastomers with High Mechanical Properties Based on Synergistically Thermo-Reversible and Quadruple Hydrogen Bonds. <b>2023</b> , 5, 1302-1311	О
36	Room-temperature self-healing polyurethanedellulose nanocrystal composites with strong strength and toughness based on dynamic bonds. <b>2023</b> , 308, 120654	O
35	Mechanoresponsive ionic elastomers with Ultra-Stretchability, high toughness, fatigue resistance, and extreme temperature resistance. <b>2023</b> , 461, 142064	О
34	A highly stretchable, fast self-healing elastomer with fast, tough, repeatable adhesion. <b>2023</b> , 464, 142543	O
33	Photoactive materials and devices for energy-efficient soft wearable optoelectronic systems. <b>2023</b> , 110, 108379	O
32	A novel, high strength, ultra-fast room temperature self-healing elastomers via structural functional region optimization strategy. <b>2023</b> , 465, 142887	O
31	Repairable, reprocessable and recyclable rigid silicone material enabled by dual dynamic covalent bonds crosslinking side-chain. <b>2023</b> , 143038	0
30	A long-lived self-healable and recyclable rubber composite via biomass Zn2+-polyphenol bonds and plasticizer-like proton donors. <b>2023</b> , 338, 134042	О
29	Self-Healing Elastomers: A sustainable solution for automotive applications. 2023, 190, 112023	O
28	Tetraphenylethene-based macrocycles: Visualized monitoring the hydrolysis of silicon-oxygen bond and their tunable luminescent properties. <b>2023</b> , 463, 142241	O
27	A rapid self-healing glassy polymer/metalBrganic-framework hybrid membrane at room temperature. <b>2023</b> , 52, 3148-3157	O
26	Mechanochromic Photonic Vitrimer Thermal Management Device Based on Dynamic Covalent Bond. <b>2023</b> , 33,	O
25	Self-Healing, Recyclable, and Degradable Castor Oil-Based Elastomers for Sustainable Soft Robotics. <b>2023</b> , 11, 3437-3450	0
24	Ultrarobust subzero healable materials enabled by polyphenol nano-assemblies. 2023, 14,	O
23	Room-Temperature Self-Healing Polyurea with High Puncture and Impact Resistances. <b>2023</b> , 35, 1806-1817	0
22	Environmentally Stable, Robust, Adhesive, and Conductive Supramolecular Deep Eutectic Gels as Ultrasensitive Flexible Temperature Sensor.	O
21	Dynamic covalent bond and metal coordination bond-cross-linked silicone elastomers with excellent mechanical and aggregation-induced emission properties. <b>2023</b> , 14, 1396-1403	0
20	Low Hysteresis Hydrogel Induced by Spatial Confinement. 2214935	О

19	Tough polyurethane elastomers with high strength and rapid healing ability. 2023, 4, 1711-1719	0
18	Self-Healing Polyurethane Binder with Catalytic Thermal Decomposition Property Based on Metal-Ligand Interaction. <b>2023</b> , 8,	O
17	Double-network PVA /gelatin/borax hydrogels with self-healing, strength, stretchable, stable, and transparent properties. <b>2023</b> , 140,	0
16	Laser-assisted failure recovery for dielectric elastomer actuators in aerial robots. 2023, 8,	Ο
15	Tough, Recyclable, and Degradable Elastomers for Potential Biomedical Applications.	О
14	Dynamic covalent networks with tunable dynamicity by mixing acylsemicarbazides and thioacylsemicarbazides.	О
13	Exploring Self-Healing and Switchable Adhesives based on Multi-Level Dynamic Stable Structure. 2300626	0
12	Dual dynamic crosslinking of rubber for enhanced mechanical properties and reconfigurable shape memory behavior.	O
11	Intrinsic Self-Healing Chemistry for Next-Generation Flexible Energy Storage Devices. 2023, 15,	0
10	Multiple hierarchical dynamic interactions enabled a robust, stretchable and room temperature self-healing elastomer.	O
9	Self-Healing MXene- and Graphene-Based Composites: Properties and Applications. 2023, 15,	0
8	Oligo[2]catenane That Is Robust at Both the Microscopic and Macroscopic Scales.	Ο
7	Ethyl Vanillin Rapid Crystallization from Carboxymethyl Chitosan Ion-Switchable Hydrogels. <b>2023</b> , 9, 335	0
6	A Strategy of Thiolactone Chemistry to Construct Strong and Tough Self-Healing Supramolecular Polyurethane Elastomers via Hierarchical Hydrogen Bonds and Coordination Bonds.	O
5	Self-healing Fuel Cells by Biological Actuators. <b>2023</b> , 116, 161-166	0
4	Stretchable and Self-Healing Elastomers with Aggregation-Induced Emission Based on Hydrogen Bonding Cross-Linked Networks.	О
3	Room-Temperature Self-Healing Glassy Luminescent Hybrid Film.	0
2	Self-Healing Binder for High-Voltage Batteries.	O

1 Intrinsically Healable Fabrics.

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