

# Hesheng Xia

## List of Publications by Year in descending order

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143  
papers

9,278  
citations

28190

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42291

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143  
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143  
docs citations

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times ranked

9638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonic Irradiation: A Novel Approach To Prepare Conductive Polyaniline/Nanocrystalline Titanium Oxide Composites. <i>Chemistry of Materials</i> , 2002, 14, 2158-2165.	3.2	443
2	Poly(vinyl alcohol) Hydrogel Can Autonomously Self-Heal. <i>ACS Macro Letters</i> , 2012, 1, 1233-1236.	2.3	422
3	Tunable Photocontrolled Motions Using Stored Strain Energy in Malleable Azobenzene Liquid Crystalline Polymer Actuators. <i>Advanced Materials</i> , 2017, 29, 1606467.	11.1	305
4	Fabrication of a flexible electromagnetic interference shielding Fe <sub>3</sub> O <sub>4</sub> @reduced graphene oxide/natural rubber composite with segregated network. <i>Chemical Engineering Journal</i> , 2018, 344, 184-193.	6.6	277
5	Enhancing electrical conductivity of rubber composites by constructing interconnected network of self-assembled graphene with latex mixing. <i>Journal of Materials Chemistry</i> , 2012, 22, 10464.	6.7	259
6	Liquid-Crystalline Dynamic Networks Doped with Gold Nanorods Showing Enhanced Photocontrol of Actuation. <i>Advanced Materials</i> , 2018, 30, e1706597.	11.1	252
7	Dispersion and Exfoliation of Graphene in Rubber by an Ultrasonically-Assisted Latex Mixing and In situ Reduction Process. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 590-602.	1.7	232
8	Polymer-Encapsulated Carbon Nanotubes Prepared through Ultrasonically Initiated In Situ Emulsion Polymerization. <i>Chemistry of Materials</i> , 2003, 15, 3879-3886.	3.2	229
9	Controlled water vapor transmission rate promotes wound-healing via wound re-epithelialization and contraction enhancement. <i>Scientific Reports</i> , 2016, 6, 24596.	1.6	222
10	Preparation of polypropylene/carbon nanotube composite powder with a solid-state mechanochemical pulverization process. <i>Journal of Applied Polymer Science</i> , 2004, 93, 378-386.	1.3	205
11	Poly(vinyl alcohol)-Poly(ethylene glycol) Double-Network Hydrogel: A General Approach to Shape Memory and Self-Healing Functionalities. <i>Langmuir</i> , 2015, 31, 11709-11716.	1.6	186
12	A self-healing, re-moldable and biocompatible crosslinked polysiloxane elastomer. <i>Journal of Materials Chemistry B</i> , 2016, 4, 982-989.	2.9	158
13	Preparation of conductive polyaniline/nanosilica particle composites through ultrasonic irradiation. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1811-1817.	1.3	155
14	Enhancing the EMI shielding of natural rubber-based supercritical CO <sub>2</sub> foams by exploiting their porous morphology and CNT segregated networks. <i>Nanoscale</i> , 2019, 11, 1011-1020.	2.8	149
15	Therapeutic-Ultrasound-Triggered Shape Memory of a Melamine-Enhanced Poly(vinyl alcohol) Physical Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12067-12073.	4.0	146
16	Preparation, characterization and properties of intrinsic self-healing elastomers. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4876-4926.	2.9	141
17	Optically triggered and spatially controllable shape-memory polymer-gold nanoparticle composite materials. <i>Journal of Materials Chemistry</i> , 2012, 22, 845-849.	6.7	138
18	Temporal Control in Mechanically Controlled Atom Transfer Radical Polymerization Using Low ppm of Cu Catalyst. <i>ACS Macro Letters</i> , 2017, 6, 546-549.	2.3	135

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19	Spatial and temporal control of shape memory polymers and simultaneous drug release using high intensity focused ultrasound. <i>Journal of Materials Chemistry</i> , 2012, 22, 7692.	6.7	133
20	Printed aerogels: chemistry, processing, and applications. <i>Chemical Society Reviews</i> , 2021, 50, 3842-3888.	18.7	128
21	Ultrasonication-Induced Aqueous Atom Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2018, 7, 275-280.	2.3	125
22	Well-aligned MXene/chitosan films with humidity response for high-performance electromagnetic interference shielding. <i>Carbohydrate Polymers</i> , 2020, 243, 116467.	5.1	118
23	4D Printing of a Liquid Crystal Elastomer with a Controllable Orientation Gradient. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44774-44782.	4.0	116
24	Enhancing Mechanically Induced ATRP by Promoting Interfacial Electron Transfer from Piezoelectric Nanoparticles to Cu Catalysts. <i>Macromolecules</i> , 2017, 50, 7940-7948.	2.2	114
25	The role of reduced graphene oxide on chemical, mechanical and barrier properties of natural rubber composites. <i>Composites Science and Technology</i> , 2014, 102, 74-81.	3.8	113
26	Diels-Alder dynamic crosslinked polyurethane/polydopamine composites with NIR triggered self-healing function. <i>Polymer Chemistry</i> , 2018, 9, 2166-2172.	1.9	111
27	Developments and Challenges in Self-Healing Antifouling Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1908098.	7.8	110
28	Realizing Crack Diagnosing and Self-Healing by Electricity with a Dynamic Crosslinked Flexible Polyurethane Composite. <i>Advanced Science</i> , 2018, 5, 1800101.	5.6	109
29	Self-healing poly(siloxane-urethane) elastomers with remoldability, shape memory and biocompatibility. <i>Polymer Chemistry</i> , 2016, 7, 7278-7286.	1.9	103
30	A facile dynamic crosslinked healable poly(oxime-urethane) elastomer with high elastic recovery and recyclability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18154-18164.	5.2	102
31	Ultrasound healable shape memory dynamic polymers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16051-16060.	5.2	101
32	Dynamic covalent urea bonds and their potential for development of self-healing polymer materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15933-15943.	5.2	101
33	Polydopamine Particles Reinforced Poly(vinyl alcohol) Hydrogel with NIR Light Triggered Shape Memory and Self-Healing Capability. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700421.	2.0	97
34	pH and Ultrasound Dual-Responsive Polydopamine-Coated Mesoporous Silica Nanoparticles for Controlled Drug Delivery. <i>Langmuir</i> , 2018, 34, 9974-9981.	1.6	95
35	Poly(vinyl alcohol)/Cellulose Nanofibril Hybrid Aerogels with an Aligned Microtubular Porous Structure and Their Composites with Polydimethylsiloxane. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7436-7444.	4.0	93
36	A Facile Strategy for Self-Healing Polyurethanes Containing Multiple Metal-Ligand Bonds. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700678.	2.0	92

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37	Synthesis of polyvinyl alcohol/cellulose nanofibril hybrid aerogel microspheres and their use as oil/solvent superabsorbents. <i>Carbohydrate Polymers</i> , 2016, 148, 300-308.	5.1	90
38	Superhydrophobic and Flexible Silver Nanowire-Coated Cellulose Filter Papers with Sputter-Deposited Nickel Nanoparticles for Ultrahigh Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14623-14633.	4.0	90
39	Lightweight and self-healing carbon nanotube/acrylic copolymer foams: Toward the simultaneous enhancement of electromagnetic interference shielding and thermal insulation. <i>Chemical Engineering Journal</i> , 2021, 417, 129339.	6.6	89
40	Light-Controlled Complex Deformation and Motion of Shape-Memory Polymers Using a Temperature Gradient. <i>ACS Macro Letters</i> , 2014, 3, 940-943.	2.3	83
41	Piezoresistive and compression resistance relaxation behavior of water blown carbon nanotube/polyurethane composite foam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 72, 108-114.	3.8	83
42	Polymerization rate and mechanism of ultrasonically initiated emulsion polymerization of n-butyl acrylate. <i>Ultrasonics Sonochemistry</i> , 2002, 9, 151-158.	3.8	80
43	Highly adsorptive graphene aerogel microspheres with center-diverging microchannel structures. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1068-1077.	5.2	75
44	Thermal insulating rubber foams embedded with segregated carbon nanotube networks for electromagnetic shielding applications. <i>Chemical Engineering Journal</i> , 2022, 435, 135118.	6.6	75
45	Novel Shape-Memory Polymer Based on Hydrogen Bonding. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1100-1104.	2.0	74
46	Thermal-healable and shape memory metallosupramolecular poly(n-butyl acrylate-co-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	1.7	69
47	Simultaneous realization of conductive segregation network microstructure and minimal surface porous macrostructure by SLS 3D printing. <i>Materials and Design</i> , 2019, 178, 107874.	3.3	68
48	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. <i>Nanoscale</i> , 2020, 12, 7782-7791.	2.8	68
49	Selective Laser Sintering 3D Printing: A Way to Construct 3D Electrically Conductive Segregated Network in Polymer Matrix. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700211.	1.7	67
50	Novel Poly(vinyl alcohol)/Chitosan/Modified Graphene Oxide Biocomposite for Wound Dressing Application. <i>Macromolecular Bioscience</i> , 2020, 20, e1900385.	2.1	65
51	Borate cross-linked graphene oxide-chitosan as robust and high gas barrier films. <i>Nanoscale</i> , 2016, 8, 10783-10791.	2.8	62
52	Ultrasound-Mediated Polymeric Micelle Drug Delivery. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 365-384.	0.8	62
53	Acylsemicarbazide Moieties with Dynamic Reversibility and Multiple Hydrogen Bonding for Transparent, High Modulus, and Malleable Polymers. <i>Macromolecules</i> , 2020, 53, 7914-7924.	2.2	62
54	Smart polyurethane foam with magnetic field controlled modulus and anisotropic compression property. <i>RSC Advances</i> , 2013, 3, 3241.	1.7	60

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55	Light-healable hard hydrogels through photothermally induced melting-crystallization phase transition. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13373-13379.	5.2	57
56	Designing formulation variables of extrusion-based manufacturing of carbon black conductive polymer composites for piezoresistive sensing. <i>Composites Science and Technology</i> , 2019, 171, 78-85.	3.8	53
57	High performance dynamic covalent crosslinked polyacylsemicarbazide composites with self-healing and recycling capabilities. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4055-4065.	5.2	53
58	Atom Transfer Radical Polymerization Enabled by Sonochemically Labile Cu-carbonate Species. <i>ACS Macro Letters</i> , 2019, 8, 161-165.	2.3	52
59	Polydimethylsiloxane incorporated with reduced graphene oxide (rGO) sheets for wound dressing application: Preparation and characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 61-71.	2.5	50
60	Covalent adaptable networks of polydimethylsiloxane elastomer for selective laser sintering 3D printing. <i>Chemical Engineering Journal</i> , 2021, 412, 128675.	6.6	50
61	Improving the magnetorheological properties of polyurethane magnetorheological elastomer through plasticization. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2476-2484.	1.3	49
62	Polymer/carbon nanotube composite emulsion prepared through ultrasonically assisted in situ emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3123-3130.	1.3	48
63	Selective Laser Sintering Fabricated Thermoplastic Polyurethane/Graphene Cellular Structures with Tailorable Properties and High Strain Sensitivity. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 864.	1.3	45
64	Ultrasound responsive block copolymer micelle of poly(ethylene glycol)-poly(propylene glycol) obtained through click reaction. <i>Ultrasonics Sonochemistry</i> , 2016, 30, 9-17.	3.8	42
65	Polyurethane-modified graphene oxide composite bilayer wound dressing with long-lasting antibacterial effect. <i>Materials Science and Engineering C</i> , 2020, 111, 110833.	3.8	41
66	High sensitivity of multi-sensing materials based on reduced graphene oxide and natural rubber: The synergy between filler segregation and macro-porous morphology. <i>Composites Science and Technology</i> , 2021, 205, 108689.	3.8	41
67	Dual water-healable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6930-6935.	2.9	40
68	Probing the reinforcing mechanism of graphene and graphene oxide in natural rubber. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2342-2351.	1.3	39
69	High Intensity Focused Ultrasound Triggered Shape Memory and Drug Release from Biodegradable Polyurethane. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1195-1203.	1.1	36
70	Piezoelectricity drives organic synthesis. <i>Science</i> , 2019, 366, 1451-1452.	6.0	36
71	Ultrasound-Induced Disruption of Amphiphilic Block Copolymer Micelles. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 498-506.	1.1	35
72	Gas-Barrier Hybrid Coatings by the Assembly of Novel Poly(vinyl alcohol) and Reduced Graphene Oxide Layers through Cross-Linking with Zirconium Adducts. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22678-22685.	4.0	33

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73	High piezo-resistive performances of anisotropic composites realized by embedding rGO-based chitosan aerogels into open cell polyurethane foams. <i>Nanoscale</i> , 2019, 11, 8835-8844.	2.8	33
74	&lt;p&gt;Fabrication of KR-12 peptide-containing hyaluronic acid immobilized fibrous eggshell membrane effectively kills multi-drug-resistant bacteria, promotes angiogenesis and accelerates re-epithelialization&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3345-3360.	3.3	32
75	Dynamic healable polyurethane for selective laser sintering. <i>Additive Manufacturing</i> , 2020, 33, 101176.	1.7	32
76	Graphene/carbon black/natural rubber composites prepared by a wet compounding and latex mixing process. <i>Plastics, Rubber and Composites</i> , 2018, 47, 398-412.	0.9	31
77	Role of Diisocyanate Structure on Self-Healing and Anticorrosion Properties of Waterborne Polyurethane Coatings. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100117.	1.9	31
78	Compatibilization of natural rubber/high density polyethylene thermoplastic vulcanizate with graphene oxide through ultrasonically assisted latex mixing. <i>Journal of Applied Polymer Science</i> , 2013, 127, 933-941.	1.3	30
79	A composite material with room temperature shape processability and optical repair. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5932-5939.	2.7	30
80	2D-to-3D Shape Transformation of Room-Temperature-Programmable Shape-Memory Polymers through Selective Suppression of Strain Relaxation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40189-40197.	4.0	30
81	Pt Nanoparticle-Loaded Graphene Aerogel Microspheres with Excellent Methanol Electro-Oxidation Performance. <i>Langmuir</i> , 2019, 35, 3694-3700.	1.6	30
82	High-Intensity Focused Ultrasound-Induced Thermal Effect for Solid Polymer Materials. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2519-2527.	1.1	29
83	Polydopamine Particle-Filled Shape-Memory Polyurethane Composites with Fast Near-Infrared Light Responsibility. <i>ChemPhysChem</i> , 2018, 19, 2052-2057.	1.0	29
84	Constructing 3D Graphene Network in Rubber Nanocomposite via Liquid-Phase Redispersion and Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9682-9692.	4.0	29
85	Ultrasound Reversible Response Nanocarrier Based on Sodium Alginate Modified Mesoporous Silica Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 59.	1.8	28
86	Tailoring gas permeation and dielectric properties of bromobutyl rubber - Graphene oxide nanocomposites by inducing an ordered nanofiller microstructure. <i>Composites Part B: Engineering</i> , 2017, 116, 361-368.	5.9	27
87	A novel self-catalytic cooperative multiple dynamic moiety: towards rigid and tough but more healable polymer networks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16759-16768.	5.2	27
88	Shape recovery characteristics for shape memory polymers subjected to high intensity focused ultrasound. <i>RSC Advances</i> , 2014, 4, 32701-32709.	1.7	25
89	NIR driven fast macro-damage repair and shear-free reprocessing of thermoset elastomers via dynamic covalent urea bonds. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25047-25052.	5.2	25
90	Cyclodextrin self-assembled graphene oxide aerogel microspheres as broad-spectrum adsorbent for removing dyes and organic micropollutants from water. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104749.	3.3	25

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91	Ultralight NiCo@rGO aerogel microspheres with magnetic response for oil/water separation. <i>Chemical Engineering Journal</i> , 2022, 430, 132894.	6.6	25
92	Relationship between electrical conductivity and spatial arrangements of carbon nanotubes in polystyrene nanocomposites: The effect of thermal annealing and plasticization on electrical conductivity. <i>Composites Science and Technology</i> , 2017, 146, 99-109.	3.8	23
93	Simultaneous reduction and surface functionalization of graphene oxide by cystamine dihydrochloride for rubber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 122, 18-26.	3.8	23
94	Stretchable conductive films based on carbon nanomaterials prepared by spray coating. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	22
95	Selective Laser Sintering 4D Printing of Dynamic Cross-linked Polyurethane Containing Diels-Alder Bonds. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4035-4046.	2.0	22
96	On the Synergistic Effect of Multi-Walled Carbon Nanotubes and Graphene Nanoplatelets to Enhance the Functional Properties of SLS 3D-Printed Elastomeric Structures. <i>Polymers</i> , 2020, 12, 1841.	2.0	21
97	Fabrication of graphene millimeter-vortex ring with excellent absorption via solution dripping and in-situ reduction method. <i>Chemical Engineering Journal</i> , 2017, 327, 142-149.	6.6	20
98	Graphene-based masterbatch obtained via modified polyvinyl alcohol liquid-shear exfoliation and its application in enhanced polymer composites. <i>Materials and Design</i> , 2017, 134, 103-110.	3.3	20
99	High Silica Content Graphene/Natural Rubber Composites Prepared by a Wet Compounding and Latex Mixing Process. <i>Polymers</i> , 2020, 12, 2549.	2.0	20
100	Robust and recyclable graphene/chitosan composite aerogel microspheres for adsorption of oil pollutants from water. <i>Carbohydrate Polymers</i> , 2022, 290, 119416.	5.1	20
101	Progress in Utilizing Dynamic Bonds to Fabricate Structurally Adaptive Self-Healing, Shape Memory, and Liquid Crystal Polymers. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100768.	2.0	18
102	Shape-memory behavior of poly (methyl methacrylate-co N-vinyl-2-pyrrolidone) / poly (ethylene) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 Research, 2011, 18, 2109-2117.	1.2	17
103	Dopamine-functionalized poly(vinyl alcohol) elastomer with melt processability and self-healing properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45072.	1.3	17
104	Preparation of hollow polyurethane microspheres with tunable surface structures via electrospraying technology. <i>RSC Advances</i> , 2017, 7, 49828-49837.	1.7	16
105	A novel method to prepare homogeneous biocompatible graphene-based PDMS composites with enhanced mechanical, thermal and antibacterial properties. <i>Polymer Composites</i> , 2019, 40, E1397.	2.3	16
106	Silicone rubber membrane with specific pore size enhances wound regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e905-e917.	1.3	15
107	Crack growth resistance of natural rubber reinforced with carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48447.	1.3	15
108	Effect of mercapto-silanes on the functional properties of highly amorphous vinyl alcohol composites with reduced graphene oxide and cellulose nanocrystals. <i>Composites Science and Technology</i> , 2020, 200, 108458.	3.8	14



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109	Hybrid MXene/reduced graphene oxide aerogel microspheres for hydrogen evolution reaction. <i>Ionics</i> , 2021, 27, 3099-3108.	1.2	13
110	NIR light-triggered self-healing waterborne polyurethane coatings with polydopamine-coated reduced graphene oxide nanoparticles. <i>Progress in Organic Coatings</i> , 2021, 161, 106499.	1.9	13
111	Green Production of Biodegradable Mulch Films for Effective Weed Control. <i>ACS Omega</i> , 2021, 6, 32327-32333.	1.6	13
112	Nitrogen-Doped Graphene Aerogel Microspheres Used as Electrocatalyst Supports for Methanol Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 1398-1407.	1.8	13
113	Biomimetic thermoplastic polyurethane porous membrane with hierarchical structure accelerates wound healing by enhancing granulation tissue formation and angiogenesis. <i>RSC Advances</i> , 2016, 6, 99595-99603.	1.7	12
114	Bioinspired ultrasound-responsive fluorescent metal-organic ligand cross-linked polymer assemblies. <i>Polymer Chemistry</i> , 2017, 8, 2581-2585.	1.9	12
115	Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47375.	1.3	12
116	Essential Nanostructure Parameters to Govern Reinforcement and Functionality of Poly(lactic) Acid Nanocomposites with Graphene and Carbon Nanotubes for 3D Printing Application. <i>Polymers</i> , 2020, 12, 1208.	2.0	12
117	Tunable electromagnetic interference shielding ability of MXene/chitosan/silver nanowire sandwich films. <i>Functional Materials Letters</i> , 2021, 14, 2151041.	0.7	11
118	Tough and Healable Elastomers via Dynamic Integrated Moiety Comprising Covalent and Noncovalent Interactions. <i>Chemistry of Materials</i> , 2022, 34, 2981-2988.	3.2	11
119	Hybrid Transition Metal Dichalcogenide/Graphene Microspheres for Hydrogen Evolution Reaction. <i>Nanomaterials</i> , 2020, 10, 2376.	1.9	10
120	High intensity focused ultrasound responsive release behavior of metallo-supramolecular block PPG-PEG copolymer micelles. <i>Ultrasonics Sonochemistry</i> , 2020, 68, 105217.	3.8	10
121	Constructing a Segregated Magnetic Graphene Network in Rubber Composites for Integrating Electromagnetic Interference Shielding Stability and Multi-Sensing Performance. <i>Polymers</i> , 2021, 13, 3277.	2.0	10
122	The Transferability and Design of Commercial Printer Settings in PLA/PBAT Fused Filament Fabrication. <i>Polymers</i> , 2020, 12, 2573.	2.0	9
123	Tuning the structural and functional properties of HAVOH-based composites via ionic liquid tailoring of MWCNTs distribution. <i>Composites Science and Technology</i> , 2021, 207, 108742.	3.8	9
124	Preparation and properties of PBAT/PLA composites modified by PVA and cellulose nanocrystals. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51474.	1.3	9
125	Robust, flexible, and high-performance electromagnetic interference shielding films with long-lasting service. <i>RSC Advances</i> , 2021, 11, 18476-18482.	1.7	9
126	Ultra-Light Reduced Graphene Oxide Based Aerogel/Foam Absorber of Microwave Radiation. <i>Materials</i> , 2019, 12, 213.	1.3	8



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127	Electromagnetic interference shielding property of silver nanowires/polymer foams with low thermal conductivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28394-28405.	1.1	8
128	Melt-processable and self-healing poly(vinyl alcohol) elastomer containing diol groups in the side chain. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46050.	1.3	7
129	Powder quality and electrical conductivity of selective laser sintered polymer composite components. , 2020, , 149-185.		7
130	Selective Laser Sintering of Polydimethylsiloxane Composites. <i>3D Printing and Additive Manufacturing</i> , 2023, 10, 684-696.	1.4	7
131	Controlling CO <sub>2</sub> -Responsive Behaviors of Polymersomes Self-Assembled by Coumarin-Containing Star Polymer via Regulating Its Crosslinking Pattern. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800009.	2.0	6
132	Synthesis and characterization of poly(3,4-ethylenedioxythiophene) nanoparticles obtained through ultrasonic irradiation. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2146-2152.	1.3	5
133	Micro-contact reconstruction of adjacent carbon nanotubes in polymer matrix through annealing-induced relaxation of interfacial residual stress and strain. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
134	Graphene-Rubber Nanocomposites: Preparation, Structure, and Properties. , 2017, , 175-209.		5
135	HIFU induced particles redistribution in polymer matrix via synchrotron radiation X-ray microtomography. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 97-105.	3.8	5
136	The Effect of the 3D Nanoarchitecture and Ni-Promotion on the Hydrogen Evolution Reaction in MoS <sub>2</sub> /Reduced GO Aerogel Hybrid Microspheres Produced by a Simple One-Pot Electro spraying Procedure. <i>Small</i> , 2022, 18, e2105694.	5.2	5
137	Electrical Properties of Isotactic Polypropylene/Multiwalled Carbon Nanotubes Composites Prepared by Vibration Injection Molding. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 2193-2202.	0.4	4
138	Fabrication and the barrier characterization of the cellulose nanofibers/organic montmorillonite/poly lactic acid nanocomposites. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51827.	1.3	4
139	High-intensity focused ultrasound selective annealing induced patterned and gradient crystallization behavior of polymer. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 442-452.	3.8	3
140	Terahertz Optics of Materials with Spatially Harmonically Distributed Refractive Index. <i>Materials</i> , 2020, 13, 5208.	1.3	3
141	Borate cross-linking chitosan/graphene oxide films: Toward the simultaneous enhancement of gases barrier and mechanical properties. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
142	Preparation optimization of chitosan/graphene oxide aerogels: Tailoring of dye adsorption ability and mechanical properties. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
143	Polyvinyl alcohol and acidity-regulating KH <sub>2</sub> PO <sub>4</sub> synergistically accelerated degradation of PBAT/PLA composites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50301.	1.3	1