

Hesheng Xia

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139
papers

6,520
citations

46
h-index

78
g-index

143
ext. papers

7,856
ext. citations

7.3
avg, IF

6.39
L-index

#	Paper	IF	Citations
139	Ultrasonic Irradiation: A Novel Approach To Prepare Conductive Polyaniline/Nanocrystalline Titanium Oxide Composites. <i>Chemistry of Materials</i> , 2002 , 14, 2158-2165	9.6	414
138	Poly(vinyl alcohol) Hydrogel Can Autonomously Self-Heal. <i>ACS Macro Letters</i> , 2012 , 1, 1233-1236	6.6	325
137	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		230
136	Tunable Photocontrolled Motions Using Stored Strain Energy in Malleable Azobenzene Liquid Crystalline Polymer Actuators. <i>Advanced Materials</i> , 2017 , 29, 1606467	24	224
135	Polymer-Encapsulated Carbon Nanotubes Prepared through Ultrasonically Initiated In Situ Emulsion Polymerization. <i>Chemistry of Materials</i> , 2003 , 15, 3879-3886	9.6	212
134	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	3.9	199
133	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	2.9	194
132	Fabrication of a flexible electromagnetic interference shielding Fe ₃ O ₄ @reduced graphene oxide/natural rubber composite with segregated network. <i>Chemical Engineering Journal</i> , 2018 , 344, 184-193	14.7	182
131	Liquid-Crystalline Dynamic Networks Doped with Gold Nanorods Showing Enhanced Photocontrol of Actuation. <i>Advanced Materials</i> , 2018 , 30, e1706597	24	162
130	Poly(vinyl alcohol)-Poly(ethylene glycol) Double-Network Hydrogel: A General Approach to Shape Memory and Self-Healing Functionalities. <i>Langmuir</i> , 2015 , 31, 11709-16	4	154
129	Controlled water vapor transmission rate promotes wound-healing via wound re-epithelialization and contraction enhancement. <i>Scientific Reports</i> , 2016 , 6, 24596	4.9	145
128	Preparation of conductive polyaniline/nanosilica particle composites through ultrasonic irradiation. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 1811-1817	2.9	134
127	Optically triggered and spatially controllable shape-memory polymer-gold nanoparticle composite materials. <i>Journal of Materials Chemistry</i> , 2012 , 22, 845-849		126
126	A self-healing, re-moldable and biocompatible crosslinked polysiloxane elastomer. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 982-989	7.3	118
125	Therapeutic-Ultrasound-Triggered Shape Memory of a Melamine-Enhanced Poly(vinyl alcohol) Physical Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12067-73	9.5	118
124	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		114
123	Temporal Control in Mechanically Controlled Atom Transfer Radical Polymerization Using Low ppm of Cu Catalyst. <i>ACS Macro Letters</i> , 2017 , 6, 546-549	6.6	108

122	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	8.6	98
121	Enhancing the EMI shielding of natural rubber-based supercritical CO foams by exploiting their porous morphology and CNT segregated networks. <i>Nanoscale</i> , 2019 , 11, 1011-1020	7.7	96
120	Ultrasonication-Induced Aqueous Atom Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2018 , 7, 275-280	6.6	95
119	Preparation, characterization and properties of intrinsic self-healing elastomers. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4876-4926	7.3	85
118	Diels-Alder dynamic crosslinked polyurethane/polydopamine composites with NIR triggered self-healing function. <i>Polymer Chemistry</i> , 2018 , 9, 2166-2172	4.9	85
117	Enhancing Mechanically Induced ATRP by Promoting Interfacial Electron Transfer from Piezoelectric Nanoparticles to Cu Catalysts. <i>Macromolecules</i> , 2017 , 50, 7940-7948	5.5	82
116	Realizing Crack Diagnosing and Self-Healing by Electricity with a Dynamic Crosslinked Flexible Polyurethane Composite. <i>Advanced Science</i> , 2018 , 5, 1800101	13.6	81
115	Self-healing poly(siloxane-urethane) elastomers with remoldability, shape memory and biocompatibility. <i>Polymer Chemistry</i> , 2016 , 7, 7278-7286	4.9	81
114	Poly(vinyl alcohol)/cellulose nanofibril hybrid aerogels with an aligned microtubular porous structure and their composites with polydimethylsiloxane. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7436-44	9.5	80
113	Ultrasound healable shape memory dynamic polymers. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16051-16060	16.0	77
112	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	4.8	75
111	Light-Controlled Complex Deformation and Motion of Shape-Memory Polymers Using a Temperature Gradient. <i>ACS Macro Letters</i> , 2014 , 3, 940-943	6.6	75
110	Novel Shape-Memory Polymer Based on Hydrogen Bonding. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1100-1104	4.8	73
109	Polymerization rate and mechanism of ultrasonically initiated emulsion polymerization of n-butyl acrylate. <i>Ultrasonics Sonochemistry</i> , 2002 , 9, 151-8	8.9	72
108	pH and Ultrasound Dual-Responsive Polydopamine-Coated Mesoporous Silica Nanoparticles for Controlled Drug Delivery. <i>Langmuir</i> , 2018 , 34, 9974-9981	4	70
107	Synthesis of polyvinyl alcohol/cellulose nanofibril hybrid aerogel microspheres and their use as oil/solvent superabsorbents. <i>Carbohydrate Polymers</i> , 2016 , 148, 300-8	10.3	70
106	4D Printing of a Liquid Crystal Elastomer with a Controllable Orientation Gradient. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44774-44782	9.5	69
105	Highly adsorptive graphene aerogel microspheres with center-diverging microchannel structures. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1068-1077	13	66

104	Thermal-healable and shape memory metallosupramolecular poly(n-butyl acrylate-co-methyl methacrylate) materials. <i>RSC Advances</i> , 2014 , 4, 25486-25493	3.7	64
103	Developments and Challenges in Self-Healing Antifouling Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1908098	15.6	64
102	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	8.4	60
101	A Facile Strategy for Self-Healing Polyurethanes Containing Multiple Metal-Ligand Bonds. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700678	4.8	59
100	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	13	58
99	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	13	56
98	Light-healable hard hydrogels through photothermally induced melting/crystallization phase transition. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13373-13379	13	50
97	Well-aligned MXene/chitosan films with humidity response for high-performance electromagnetic interference shielding. <i>Carbohydrate Polymers</i> , 2020 , 243, 116467	10.3	49
96	Borate cross-linked graphene oxide-chitosan as robust and high gas barrier films. <i>Nanoscale</i> , 2016 , 8, 10783-91	7.7	49
95	Smart polyurethane foam with magnetic field controlled modulus and anisotropic compression property. <i>RSC Advances</i> , 2013 , 3, 3241	3.7	48
94	Ultrasound-Mediated Polymeric Micelle Drug Delivery. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 880, 365-84	3.6	47
93	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	3.9	45
92	Polymer/carbon nanotube composite emulsion prepared through ultrasonically assisted in situ emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 3123-3130	2.9	45
91	Improving the magnetorheological properties of polyurethane magnetorheological elastomer through plasticization. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2476-2484	2.9	40
90	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. <i>Nanoscale</i> , 2020 , 12, 7782-7791	7.7	39
89	Atom Transfer Radical Polymerization Enabled by Sonochemically Labile Cu-carbonate Species. <i>ACS Macro Letters</i> , 2019 , 8, 161-165	6.6	38
88	Simultaneous realization of conductive segregation network microstructure and minimal surface porous macrostructure by SLS 3D printing. <i>Materials and Design</i> , 2019 , 178, 107874	8.1	37
87	Probing the reinforcing mechanism of graphene and graphene oxide in natural rubber. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 2342-2351	2.9	35

86	Printed aerogels: chemistry, processing, and applications. <i>Chemical Society Reviews</i> , 2021 , 50, 3842-3888	8.5	34
85	Novel Poly(vinyl alcohol)/Chitosan/Modified Graphene Oxide Biocomposite for Wound Dressing Application. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900385	5.5	32
84	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	8.6	32
83	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 & Interfaces</i> , 2015 , 7, 22678-85	9.5	31
82	Superhydrophobic and Flexible Silver Nanowire-Coated Cellulose Filter Papers with Sputter-Deposited Nickel Nanoparticles for Ultrahigh Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14623-14633	9.5	31
81	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	6	30
80	Ultrasound responsive block copolymer micelle of poly(ethylene glycol)-poly(propylene glycol) obtained through click reaction. <i>Ultrasonics Sonochemistry</i> , 2016 , 30, 9-17	8.9	29
79	Ultrasound-Induced Disruption of Amphiphilic Block Copolymer Micelles. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 498-506	2.6	28
78	High Intensity Focused Ultrasound Triggered Shape Memory and Drug Release from Biodegradable Polyurethane. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 1195-1203	2.6	27
77	Dual water-healable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 6930-6935	7.3	27
76	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	2.9	26
75	Polyurethane-modified graphene oxide composite bilayer wound dressing with long-lasting antibacterial effect. <i>Materials Science and Engineering C</i> , 2020 , 111, 110833	8.3	24
74	Selective Laser Sintering Fabricated Thermoplastic Polyurethane/Graphene Cellular Structures with Tailorable Properties and High Strain Sensitivity. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 864	2.6	23
73	High-Intensity Focused Ultrasound-Induced Thermal Effect for Solid Polymer Materials. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 2519-2527	2.6	23
72	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	14.7	23
71	Fabrication of KR-12 peptide-containing hyaluronic acid immobilized fibrous eggshell membrane effectively kills multi-drug-resistant bacteria, promotes angiogenesis and accelerates re-epithelialization. <i>International Journal of Nanomedicine</i> , 2019 , 14, 3345-3360	7.3	22
70	Pt Nanoparticle-Loaded Graphene Aerogel Microspheres with Excellent Methanol Electro-Oxidation Performance. <i>Langmuir</i> , 2019 , 35, 3694-3700	4	22
69	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	7.7	21

68	Polydopamine Particle-Filled Shape-Memory Polyurethane Composites with Fast Near-Infrared Light Responsibility. <i>ChemPhysChem</i> , 2018 , 19, 2052-2057	3.2	21
67	A composite material with room temperature shape processability and optical repair. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5932-5939	7.1	21
66	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	10	21
65	Dynamic healable polyurethane for selective laser sintering. <i>Additive Manufacturing</i> , 2020 , 33, 101176	6.1	20
64	Shape recovery characteristics for shape memory polymers subjected to high intensity focused ultrasound. <i>RSC Advances</i> , 2014 , 4, 32701-32709	3.7	20
63	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	1.5	19
62	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	8.6	18
61	Acylsemicarbazide Moieties with Dynamic Reversibility and Multiple Hydrogen Bonding for Transparent, High Modulus, and Malleable Polymers. <i>Macromolecules</i> , 2020 , 53, 7914-7924	5.5	18
60	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	8.6	18
59	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	14.7	17
58	Ultrasound Reversible Response Nanocarrier Based on Sodium Alginate Modified Mesoporous Silica Nanoparticles. <i>Frontiers in Chemistry</i> , 2019 , 7, 59	5	17
57	Shape-memory behavior of poly (methyl methacrylate-co N-vinyl-2-pyrrolidone) / poly (ethylene glycol) semi-interpenetrating polymer networks based on hydrogen bonding. <i>Journal of Polymer Research</i> , 2011 , 18, 2109-2117	2.7	17
56	Piezoelectricity drives organic synthesis. <i>Science</i> , 2019 , 366, 1451-1452	33.3	16
55	Constructing 3D Graphene Network in Rubber Nanocomposite via Liquid-Phase Redispersion and Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9682-9692	9.5	15
54	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	8.1	15
53	Covalent adaptable networks of polydimethylsiloxane elastomer for selective laser sintering 3D printing. <i>Chemical Engineering Journal</i> , 2021 , 412, 128675	14.7	15
52	2D-to-3D Shape Transformation of Room-Temperature-Programmable Shape-Memory Polymers through Selective Suppression of Strain Relaxation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40189-40197	9.5	15
51	Stretchable conductive films based on carbon nanomaterials prepared by spray coating. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	13

50	High performance dynamic covalent crosslinked polyacylsemicarbazide composites with self-healing and recycling capabilities. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4055-4065	13	13
49	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	8.4	11
48	Silicone rubber membrane with specific pore size enhances wound regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e905-e917	4.4	11
47	Preparation of hollow polyurethane microspheres with tunable surface structures via electro spraying technology. <i>RSC Advances</i> , 2017 , 7, 49828-49837	3.7	11
46	Dopamine-functionalized poly(vinyl alcohol) elastomer with melt processability and self-healing properties. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45072	2.9	10
45	Crack growth resistance of natural rubber reinforced with carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48447	2.9	10
44	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	13	10
43	Role of Diisocyanate Structure on Self-Healing and Anticorrosion Properties of Waterborne Polyurethane Coatings. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100117	4.6	10
42	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-E1406 ³		10
41	Biomimetic thermoplastic polyurethane porous membrane with hierarchical structure accelerates wound healing by enhancing granulation tissue formation and angiogenesis. <i>RSC Advances</i> , 2016 , 6, 9959 ³ 7-9960 ³		
40	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	8.6	9
39	Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47375	2.9	9
38	Bioinspired ultrasound-responsive fluorescent metal-organic cross-linked polymer assemblies. <i>Polymer Chemistry</i> , 2017 , 8, 2581-2585	4.9	8
37	High Silica Content Graphene/Natural Rubber Composites Prepared by a Wet Compounding and Latex Mixing Process. <i>Polymers</i> , 2020 , 12,	4.5	8
36	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	6.8	8
35	Ultra-Light Reduced Graphene Oxide Based Aerogel/Foam Absorber of Microwave Radiation. <i>Materials</i> , 2019 , 12,	3.5	7
34	Hybrid Transition Metal Dichalcogenide/Graphene Microspheres for Hydrogen Evolution Reaction. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
33	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,	4.5	7

32	Thermal insulating rubber foams embedded with segregated carbon nanotube networks for electromagnetic shielding applications. <i>Chemical Engineering Journal</i> , 2022 , 435, 135118	14.7	6
31	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	13	6
30	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,	4.5	5
29	Controlling CO ₂ -Responsive Behaviors of Polymersomes Self-Assembled by Coumarin-Containing Star Polymer via Regulating Its Crosslinking Pattern. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800009	4.8	5
28	Hybrid MXene/reduced graphene oxide aerogel microspheres for hydrogen evolution reaction. <i>Ionics</i> , 2021 , 27, 3099-3108	2.7	5
27	Powder quality and electrical conductivity of selective laser sintered polymer composite components 2020 , 149-185		4
26	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, n/a-n/a	2.9	4
25	The Transferability and Design of Commercial Printer Settings in PLA/PBAT Fused Filament Fabrication. <i>Polymers</i> , 2020 , 12,	4.5	4
24	High-intensity focused ultrasound selective annealing induced patterned and gradient crystallization behavior of polymer. <i>Ultrasonics Sonochemistry</i> , 2018 , 40, 442-452	8.9	3
23	HIFU induced particles redistribution in polymer matrix via synchrotron radiation X-ray microtomography. <i>Ultrasonics Sonochemistry</i> , 2018 , 49, 97-105	8.9	3
22	Graphene-Rubber Nanocomposites: Preparation, Structure, and Properties 2017 , 175-209		3
21	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 ^{1,4}		3
20	Progress in Utilizing Dynamic Bonds to Fabricate Structurally Adaptive Self-Healing, Shape Memory, and Liquid Crystal Polymers.. <i>Macromolecular Rapid Communications</i> , 2021 , e2100768	4.8	3
19	Selective Laser Sintering of Polydimethylsiloxane Composites. <i>3D Printing and Additive Manufacturing</i> ,	4	3
18	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	2.9	3
17	Nitrogen-Doped Graphene Aerogel Microspheres Used as Electrocatalyst Supports for Methanol Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 1398-1407	3.9	2
16	Ultralight NiCo@rGO aerogel microspheres with magnetic response for oil/water separation. <i>Chemical Engineering Journal</i> , 2022 , 430, 132894	14.7	2
15	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	8.6	2

14	Tunable electromagnetic interference shielding ability of MXene/chitosan/silver nanowire sandwich films. <i>Functional Materials Letters</i> , 2021 , 14, 2151041	1.2	2
13	NIR light-triggered self-healing waterborne polyurethane coatings with polydopamine-coated reduced graphene oxide nanoparticles. <i>Progress in Organic Coatings</i> , 2021 , 161, 106499	4.8	2
12	Selective Laser Sintering 4D Printing of Dynamic Cross-linked Polyurethane Containing Diels-Alder Bonds. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 4035-4046	4.3	2
11	High intensity focused ultrasound responsive release behavior of metallo-supramolecular block PPG-PEG copolymer micelles. <i>Ultrasonics Sonochemistry</i> , 2020 , 68, 105217	8.9	1
10	Preparation optimization of chitosan/graphene oxide aerogels: Tailoring of dye adsorption ability and mechanical properties 2018 ,		1
9	Synthesis and characterization of poly(3,4-ethylenedioxythiophene) nanoparticles obtained through ultrasonic irradiation. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	1
8	Green Production of Biodegradable Mulch Films for Effective Weed Control. <i>ACS Omega</i> , 2021 , 6, 32327-32333	3.9	1
7	Preparation and properties of PBAT/PLA composites modified by PVA and cellulose nanocrystals. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51474	2.9	1
6	Robust, flexible, and high-performance electromagnetic interference shielding films with long-lasting service.. <i>RSC Advances</i> , 2021 , 11, 18476-18482	3.7	1
5	The Effect of the 3D Nanoarchitecture and Ni-Promotion on the Hydrogen Evolution Reaction in MoS ₂ /Reduced GO Aerogel Hybrid Microspheres Produced by a Simple One-Pot Electrospinning Procedure.. <i>Small</i> , 2022 , e2105694	11	1
4	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	2.1	0
3	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	2.9	0
2	Robust and recyclable graphene/chitosan composite aerogel microspheres for adsorption of oil pollutants from water.. <i>Carbohydrate Polymers</i> , 2022 , 290, 119416	10.3	0
1	Polyvinyl alcohol and acidity-regulating KH ₂ PO ₄ synergistically accelerated degradation of PBAT/PLA composites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50301	2.9	