

Zixing Shi

List of Publications by Year in descending order

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45
papers

1,973
citations

361413

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243625

44
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docs citations

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times ranked

3307
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanically strong graphene oxide/sodium alginate/polyacrylamide nanocomposite hydrogel with improved dye adsorption capacity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7433.	10.3	424
2	Boron nitride nanosheets: large-scale exfoliation in methanesulfonic acid and their composites with polybenzimidazole. <i>Journal of Materials Chemistry</i> , 2011, 21, 11371.	6.7	223
3	Self-assembly of graphene into three-dimensional structures promoted by natural phenolic acids. <i>Journal of Materials Chemistry</i> , 2012, 22, 22459.	6.7	188
4	An Eco-Friendly Scheme for the Cross-Linked Polybutadiene Elastomer via Thiol-ene and Diels-Alder Click Chemistry. <i>Macromolecules</i> , 2015, 48, 3539-3546.	4.8	165
5	Dynamically Cross-linked Elastomer Hybrids with Light-Induced Rapid and Efficient Self-Healing Ability and Reprogrammable Shape Memory Behavior. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27213-27222.	8.0	95
6	Gelatin-assisted fabrication of water-dispersible graphene and its inorganic analogues. <i>Journal of Materials Chemistry</i> , 2012, 22, 17619.	6.7	88
7	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 505-512.	6.7	79
8	Gum arabic assisted exfoliation and fabrication of Ag-graphene-based hybrids. <i>Journal of Materials Chemistry</i> , 2012, 22, 13764.	6.7	69
9	Graphene-aramid nanofiber nanocomposite paper with high mechanical and electrical performance. <i>RSC Advances</i> , 2013, 3, 17664.	3.6	62
10	Tailoring vinyllogous urethane chemistry for the cross-linked polybutadiene: Wide freedom design, multiple recycling methods, good shape memory behavior. <i>Polymer</i> , 2018, 148, 202-210.	3.8	54
11	Shape Reconfiguration of a Biomimetic Elastic Membrane with a Switchable Janus Structure. <i>Advanced Functional Materials</i> , 2018, 28, 1800939.	14.9	42
12	Gas separation performance of supported carbon molecular sieve membranes based on soluble polybenzimidazole. <i>Journal of Membrane Science</i> , 2017, 533, 1-10.	8.2	41
13	Revisiting Acetoacetyl Chemistry to Build Malleable Cross-Linked Polymer Networks via Transamidation. <i>ACS Macro Letters</i> , 2019, 8, 233-238.	4.8	40
14	One pot synthesis of multiwalled carbon nanotubes reinforced polybenzimidazole hybrids: Preparation, characterization and properties. <i>Polymer</i> , 2009, 50, 5987-5995.	3.8	36
15	Selective Adsorption and Separation through Molecular Filtration by Hyperbranched Poly(ether) Tj ETQq1 1 0.784314 rgBT / Qverlock 10	3.5	33
16	A simple approach to preparation of polyhedral oligomeric silsesquioxane crosslinked poly(styrene-b-butadiene-b-styrene) elastomers with a unique micro-morphology via UV-induced thiol-ene reaction. <i>Polymer Chemistry</i> , 2014, 5, 6761-6769.	3.9	30
17	Revisiting the mechanism of redox-polymerization to build the hydrogel with excellent properties using a novel initiator. <i>Soft Matter</i> , 2016, 12, 2575-2582.	2.7	26
18	Dynamic crosslinked poly(styrene-block-butadiene-block-styrene) via Diels-Alder chemistry: an ideal method to improve solvent resistance and mechanical properties without losing its thermal plastic behavior. <i>RSC Advances</i> , 2015, 5, 45376-45383.	3.6	24

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19	Functionalization of unzipped carbon nanotube via in situ polymerization for mechanical reinforcement of polymer. <i>Journal of Materials Chemistry</i> , 2012, 22, 17663.	6.7	23
20	In situ polymerization induced supramolecular hydrogels of chitosan and poly(acrylic acid). <i>Journal of Materials Chemistry</i> , 2012, 22, 17663.	3.9	22
21	Metal-Organic Frameworks Corset with a Thermosetting Polymer for Improved Molecular-Sieving Property of Mixed-Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55308-55315.	8.0	19
22	Nacre-like graphene paper reinforced by polybenzimidazole. <i>RSC Advances</i> , 2013, 3, 20353.	3.6	18
23	Strong and conductive polybenzimidazole composites with high graphene contents. <i>RSC Advances</i> , 2013, 3, 12255.	3.6	17
24	Self-Assembly of Amphiphilic Anthracene-Functionalized β -Cyclodextrin (CD-AN) through Multi-Micelle Aggregation. <i>Macromolecular Rapid Communications</i> , 2016, 37, 998-1004.	3.9	15
25	Shape Memory: An Efficient Method to Develop the Latent Photopatterned Morphology for Elastomer in Two/Three Dimension. <i>ACS Macro Letters</i> , 2017, 6, 1025-1030.	4.8	13
26	Versatile Approach to Building Dynamic Covalent Polymer Networks by Stimulating the Dormant Groups. <i>ACS Macro Letters</i> , 2018, 7, 1371-1375.	4.8	13
27	Light-Written Reversible 3D Fluorescence and Topography Dual-Pattern with Memory and Self-Healing Abilities. <i>Research</i> , 2019, 2019, 2389254.	5.7	12
28	Exploring multiple functions of diarylsemipinacol linked to the saturated ethylene-propylene elastomer: from the dynamic covalent networks to tailoring its macroscopic performance. <i>Polymer Chemistry</i> , 2019, 10, 6157-6165.	3.9	9
29	The Evolution of Self-Wrinkles in a Single-Layer Gradient Polymer Film Based on Viscoelasticity. <i>Macromolecules</i> , 2022, 55, 3563-3572.	4.8	9
30	Rapid Stress Relaxation, Multistimuli-Responsive Elastomer Based on Dual-Dynamic Covalent Bonds and Aniline Trimer. <i>Langmuir</i> , 2022, 38, 4812-4819.	3.5	8
31	Novel benzoxazine resins as photoinitiator comprising benzophenone and coinitiator amine for photopolymerization. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1785-1791.	2.6	7
32	A Facile Method Synthesizing Hydrogel Using Hybranched Polyether Amine (hPEA) as Coinitiator and Crosslinker. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700251.	2.2	7
33	Toward Multifunctional Polymer Hybrid through Tunable Charge Transfer Interaction of Anthracene/Naphthalenediimide. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600224.	3.7	6
34	Photoreversible Growth of Micropattern. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600528.	3.7	6
35	Revisiting the pristine carbon nanotubes as dienophile: A promising crosslinking agent to build the inorganic-organic network for polybutadiene based on dynamic crosslinked mode. <i>Polymer</i> , 2016, 98, 229-236.	3.8	6
36	Fabrication of Super Extensible and Highly Tough Graphene Composite Hydrogels by Thermal Treatment Strategy for the Mixture of Tannin and Graphene Oxide. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600549.	2.2	6

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37	Inspired by elastomers: fabrication of hydrogels with tunable properties and re-shaping ability via photo-crosslinking at a macromolecular level. <i>Polymer Chemistry</i> , 2017, 8, 1824-1832.	3.9	6
38	Reversible stimuli-responsive luminescent polymers with adaptable mechanical properties based on europium-malonate complex. <i>Polymer</i> , 2021, 214, 123259.	3.8	6
39	Polyetheramine (PEA): a versatile platform to tailor the properties of hydrogels via H-bonding interactions. <i>Polymer Chemistry</i> , 2017, 8, 5367-5373.	3.9	5
40	Stress Communication between the Chain Movement and the Shape Transformation from 2D to 3D. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2082-2091.	8.0	5
41	Multiwalled carbon nanotubes reinforced poly(hydroxyaminoether) prepared by one pot grafting method. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1758-1766.	2.6	4
42	Aminoesteramide Achieved by Three-Component Reaction Heading toward Tailoring Covalent Adaptable Network with Great Freedom. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100394.	3.9	3
43	Integrating Boronic Esters and Anthracene into Covalent Adaptable Networks toward Stimuli-Responsive Elastomers. <i>Polymers</i> , 2022, 14, 1104.	4.5	3
44	Wavelength-Selective Photo-Cycloadditions of Styryl-Anthracene. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200055.	3.9	3
45	Macromolecular Metabolism Based on Enaminoneamide Achieving Transformation of Polymer Architecture. <i>Chemistry of Materials</i> , 2022, 34, 6026-6035.	6.7	3