

Zhenghai Tang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

2,557
citations

26
h-index

50
g-index

58
ext. papers

3,147
ext. citations

6.1
avg, IF

5.57
L-index

#	Paper	IF	Citations
56	Hydrolysable tannin as environmentally friendly reducer and stabilizer for graphene oxide. <i>Green Chemistry</i> , 2011 , 13, 1655	10	200
55	Bioinspired Engineering of Sacrificial Metal-Ligand Bonds into Elastomers with Supramechanical Performance and Adaptive Recovery. <i>Macromolecules</i> , 2016 , 49, 1781-1789	5.5	172
54	Covalently Cross-Linked Elastomers with Self-Healing and Malleable Abilities Enabled by Boronic Ester Bonds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24224-24231	9.5	151
53	Preparation of butadiene-styrene-vinyl pyridine rubber-graphene oxide hybrids through co-coagulation process and in situ interface tailoring. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7492		142
52	Malleable, Mechanically Strong, and Adaptive Elastomers Enabled by Interfacial Exchangeable Bonds. <i>Macromolecules</i> , 2017 , 50, 7584-7592	5.5	121
51	Mechanically Robust, Self-Healable, and Reprocessable Elastomers Enabled by Dynamic Dual Cross-Links. <i>Macromolecules</i> , 2019 , 52, 3805-3812	5.5	119
50	Bioinspired Engineering of Two Different Types of Sacrificial Bonds into Chemically Cross-Linked cis-1,4-Polyisoprene toward a High-Performance Elastomer. <i>Macromolecules</i> , 2016 , 49, 8593-8604	5.5	106
49	Engineering of β -Hydroxyl Esters into Elastomer-Nanoparticle Interface toward Malleable, Robust, and Reprocessable Vitrimer Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2992-3001	9.5	105
48	Integrating Sacrificial Bonds into Dynamic Covalent Networks toward Mechanically Robust and Malleable Elastomers. <i>ACS Macro Letters</i> , 2019 , 8, 193-199	6.6	98
47	An advanced elastomer with an unprecedented combination of excellent mechanical properties and high self-healing capability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25660-25671	13	93
46	Polyphenol-Reduced Graphene Oxide: Mechanism and Derivatization. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20740-20746	3.8	91
45	General route to graphene with liquid-like behavior by non-covalent modification. <i>Soft Matter</i> , 2012 , 8, 9214	3.6	81
44	Interface Engineering toward Promoting Silanization by Ionic Liquid for High-Performance Rubber/Silica Composites. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10747-10756	3.9	76
43	Enabling Design of Advanced Elastomer with Bioinspired Metal-Oxygen Coordination. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32520-32527	9.5	63
42	A generic solvent exchange method to disperse MoS ₂ in organic solvents to ease the solution process. <i>Chemical Communications</i> , 2014 , 50, 3934-7	5.8	63
41	Bioinspired Interface Engineering in Elastomer/Graphene Composites by Constructing Sacrificial Metal-Ligand Bonds. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1040-5	4.8	62
40	Sustainable, recyclable and robust elastomers enabled by exchangeable interfacial cross-linking. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13607-13612	13	60

39	Carbon Nanodots as High-Functionality Cross-Linkers for Bioinspired Engineering of Multiple Sacrificial Units toward Strong yet Tough Elastomers. <i>Macromolecules</i> , 2017 , 50, 3244-3253	5.5	55
38	The use of a hybrid consisting of tubular clay and graphene as a reinforcement for elastomers. <i>RSC Advances</i> , 2013 , 3, 17057	3.7	48
37	Tuning the mechanical and dynamic properties of imine bond crosslinked elastomeric vitrimers by manipulating the crosslinking degree. <i>Polymer Chemistry</i> , 2020 , 11, 1348-1355	4.9	48
36	Effects of interfacial interaction on chain dynamics of rubber/graphene oxide hybrids: a dielectric relaxation spectroscopy study. <i>RSC Advances</i> , 2013 , 3, 14549	3.7	45
35	Malleable organic/inorganic thermosetting hybrids enabled by exchangeable silyl ether interfaces. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1459-1467	13	43
34	Toughening Elastomers Using a Mussel-Inspired Multiphase Design. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23485-23489	9.5	41
33	Biomimetic design of elastomeric vitrimers with unparalleled mechanical properties, improved creep resistance and retained malleability by metal-ligand coordination. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26867-26876	13	40
32	Fluorescent whitening agent stabilized graphene and its composites with chitosan. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17111		32
31	Thiol-containing ionic liquid for the modification of styrene-butadiene rubber/silica composites. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 1252-1260	2.9	29
30	Bioinspired Design of a Robust Elastomer with Adaptive Recovery via Triazolinedione Click Chemistry. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600678	4.8	26
29	Renewable conjugated acids as curatives for high-performance rubber/silica composites. <i>Green Chemistry</i> , 2015 , 17, 3301-3305	10	23
28	Strikingly improved toughness of nonpolar rubber by incorporating sacrificial network at small fraction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 781-786	2.6	22
27	Correlating synergistic reinforcement with chain motion in elastomer/nanocarbon hybrids composites. <i>Soft Matter</i> , 2016 , 12, 6893-901	3.6	22
26	CORRELATION OF FILLER NETWORKING WITH REINFORCEMENT AND DYNAMIC PROPERTIES OF SSBR/CARBON BLACK/SILICA COMPOSITES. <i>Rubber Chemistry and Technology</i> , 2015 , 88, 676-689	1.7	21
25	Uniaxial Stretching-Induced Alignment of Carbon Nanotubes in Cross-Linked Elastomer Enabled by Dynamic Cross-Link Reshuffling. <i>ACS Macro Letters</i> , 2019 , 8, 1575-1581	6.6	21
24	A real recycling loop of sulfur-cured rubber through transalkylation exchange of C-S bonds. <i>Green Chemistry</i> , 2018 , 20, 5454-5458	10	21
23	SBR/silica composites modified by a polymerizable protic ionic liquid. <i>Polymer Journal</i> , 2010 , 42, 555-561	2.7	19
22	Antioxidative behavior of a novel samarium complex in styrene-butadiene rubber/silica composites. <i>Polymer Degradation and Stability</i> , 2016 , 133, 201-210	4.7	18

21	Dispersing Graphene in Hydroxypropyl Cellulose by Utilizing its LCST Behavior. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1370-1377	2.6	16
20	Catalyst-Free Metathesis of Cyclic Acetals and Spirocyclic Acetal Covalent Adaptable Networks. <i>ACS Macro Letters</i> , 2020 , 9, 1143-1148	6.6	15
19	Graphene oxide/rhodanine redox chemistry and its application in designing high-performance elastomer/graphene composites. <i>RSC Advances</i> , 2015 , 5, 84398-84405	3.7	14
18	Reversible plasticity shape memory polymers: Key factors and applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1295-1299	2.6	14
17	Effects of Alkalinity of Ionic Liquid on Catalyzed Silanization in Rubber/Silica Composites. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18654-18662	3.9	13
16	Facile Strategy for the Biomimetic Heterogeneous Design of Elastomers with Mechanical Robustness, Malleability, and Functionality. <i>ACS Macro Letters</i> , 2020 , 9, 49-55	6.6	12
15	Effects of dynamic covalent bond multiplicity on the performance of vitrimeric elastomers. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20503-20512	13	12
14	A novel rare-earth complex containing hindered phenol and thioether groups for styrene-butadiene rubber/silica composites with improved antioxidative properties. <i>Polymer Degradation and Stability</i> , 2019 , 166, 99-107	4.7	10
13	Promoted dispersion of silica and interfacial strength in rubber/silica composites by grafting with oniums. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48243	2.9	10
12	Generic Mechanochemical Grafting Strategy toward Organophilic Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7666-7674	9.5	9
11	Elastomer Reinforced with Innate Sulfur-Based Cross-Links as Ligands. <i>ACS Macro Letters</i> , 2019 , 8, 1091-1095	6.9	9
10	Effects of substitution for carbon black with graphene oxide or graphene on the morphology and performance of natural rubber/carbon black composites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	9
9	Notably Improved Dispersion of Carbon Black for High-Performance Natural Rubber Composites via Triazolinedione Click Chemistry. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21047-21057	3.9	9
8	Engineering Segregated Structures in a Cross-Linked Elastomeric Network Enabled by Dynamic Cross-Link Reshuffling.. <i>ACS Macro Letters</i> , 2021 , 10, 231-236	6.6	7
7	Effects of a novel hindered phenol samarium complex on the thermo-oxidative aging of styrene-butadiene rubber/silica composites. <i>Polymer Degradation and Stability</i> , 2021 , 185, 109482	4.7	6
6	Generic Method to Create Segregated Structures toward Robust, Flexible, Highly Conductive Elastomer Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24154-24163	9.5	6
5	Crosslinking diene rubbers by using an inverse vulcanised co-polymer. <i>Green Chemistry</i> , 2020 , 22, 7337-7342	3.4	5
4	Liquefied Graphene Oxide with Excellent Amphiphilicity. <i>Chemistry Letters</i> , 2014 , 43, 222-224	1.7	2

3	Sustainable shape memory polymers based on epoxidized natural rubber cured by zinc ferulate via oxa-Michael reaction. <i>International Journal of Smart and Nano Materials</i> , 2015 , 6, 195-210	3.6	2
2	A bio-based, robust and recyclable thermoset polyester elastomer by using an inverse vulcanised polysulfide as a crosslinker. <i>Polymer Chemistry</i> , 2022 , 13, 485-491	4.9	0
1	Creation of Tortuosity in Unfilled Rubber via Heterogeneous Cross-Linking toward Improved Barrier Property. <i>Macromolecules</i> , 2021 , 54, 11522-11532	5.5	0