Baochun Guo

List of Publications by Year
in descending order

172 papers	10,865 citations	23567 58 h-index	36028 97 g-index
175 all docs	175 docs citations	175 times ranked	7449 citing authors

#	Article	IF	Citations
1	Newly emerging applications of halloysite nanotubes: a review. Polymer International, 2010, 59, 574-582.	3.1	605
2	Thermal stability and flame retardant effects of halloysite nanotubes on poly(propylene). European Polymer Journal, 2006, 42, 1362-1369.	5.4	429
3	Covalently Cross-Linked Elastomers with Self-Healing and Malleable Abilities Enabled by Boronic Ester Bonds. ACS Applied Materials & Interfaces, 2018, 10, 24224-24231.	8.0	274
4	Properties of halloysite nanotubeâ€“epoxy resin hybrids and the interfacial reactions in the systems. Nanotechnology, 2007, 18, 455703.	2.6	253
5	Bioinspired Engineering of Sacrificial Metalâ€“Ligand Bonds into Elastomers with Supramechanical Performance and Adaptive Recovery. Macromolecules, 2016, 49, 1781-1789.	4.8	238
6	Hydrolysable tannin as environmentally friendly reducer and stabilizer for graphene oxide. Green Chemistry, 2011, 13, 1655.	9.0	235
7	Mechanically Robust, Self-Healable, and Reprocessable Elastomers Enabled by Dynamic Dual Cross-Links. Macromolecules, 2019, 52, 3805-3812.	4.8	224
8	Carboxylated butadieneâ€“styrene rubber/halloysite nanotube nanocomposites: Interfacial interaction and performance. Polymer, 2008, 49, 4871-4876.	3.8	221
9	Halloysite nanotubes as a novel Î²-nucleating agent for isotactic polypropylene. Polymer, 2009, 50, 3022-3030.	3.8	206
10	Grafting of Polyester onto Graphene for Electrically and Thermally Conductive Composites. Macromolecules, 2012, 45, 3444-3451.	4.8	188
11	Using a green method to develop graphene oxide/elastomers nanocomposites with combination of high barrier and mechanical performance. Composites Science and Technology, 2014, 92, 1-8.	7.8	179
12	Biobased Poly(propylene sebacate) as Shape Memory Polymer with Tunable Switching Temperature for Potential Biomedical Applications. Biomacromolecules, 2011, 12, 1312-1321.	5.4	170
13	Preparation of butadieneâ€“styreneâ€“vinyl pyridine rubberâ€“graphene oxide hybrids through co-coagulation process and in situ interface tailoring. Journal of Materials Chemistry, 2012, 22, 7492.	6.7	167
14	Integrating Sacrificial Bonds into Dynamic Covalent Networks toward Mechanically Robust and Malleable Elastomers. ACS Macro Letters, 2019, 8, 193-199.	4.8	165
15	Rational Design of Graphene Surface Chemistry for High-Performance Rubber/Graphene Composites. Macromolecules, 2014, 47, 8663-8673.	4.8	164
16	Malleable, Mechanically Strong, and Adaptive Elastomers Enabled by Interfacial Exchangeable Bonds. Macromolecules, 2017, 50, 7584-7592.	4.8	160
17	Progress in bio-inspired sacrificial bonds in artificial polymeric materials. Chemical Society Reviews, 2017, 46, 6301-6329.	38.1	157
18	Engineering of Î²-Hydroxyl Esters into Elastomerâ€“Nanoparticle Interface toward Malleable, Robust, and Reprocessable Vitrimer Composites. ACS Applied Materials & Interfaces, 2018, 10, 2992-3001.	8.0	150

#	Article	IF	Citations
19	Bioinspired Engineering of Two Different Types of Sacrificial Bonds into Chemically Cross-Linked <i>cis</i>-1,4-Polyisoprene toward a High-Performance Elastomer. Macromolecules, 2016, 49, 8593-8604.	4.8	142
20	Natural inorganic nanotubes reinforced epoxy resin nanocomposites. Journal of Polymer Research, 2008, 15, 205-212.	2.4	140
21	Styrene-butadiene rubber/halloysite nanotubes nanocomposites modified by sorbic acid. Applied Surface Science, 2009, 255, 7329-7336.	6.1	132
22	How organo-montmorillonite truly affects the structure and properties of polypropylene. Polymer Testing, 2005, 24, 94-100.	4.8	129
23	Transport performance in novel elastomer nanocomposites: Mechanism, design and control. Progress in Polymer Science, 2016, 61, 29-66.	24.7	128
24	An advanced elastomer with an unprecedented combination of excellent mechanical properties and high self-healing capability. Journal of Materials Chemistry A, 2017, 5, 25660-25671.	10.3	128
25	Crystallization behavior of polyamide 6/halloysite nanotubes nanocomposites. Thermochimica Acta, 2009, 484, 48-56.	2.7	125
26	Preparation of rubber/graphene oxide composites with in-situ interfacial design. Polymer, 2015, 56, 553-562.	3.8	124
27	Reinforcing and Flame-Retardant Effects of Halloysite Nanotubes on LLDPE. Polymer-Plastics Technology and Engineering, 2009, 48, 607-613.	1.9	123
28	Effects of organo-montmorillonite dispersion on thermal stability of epoxy resin nanocomposites. European Polymer Journal, 2004, 40, 1743-1748.	5.4	121
29	Functional thiol ionic liquids as novel interfacial modifiers in SBR/HNTs composites. Polymer, 2011, 52, 1337-1344.	3.8	120
30	Interactions between halloysite nanotubes and 2,5-bis(2-benzoxazolyl) thiophene and their effects on reinforcement of polypropylene/halloysite nanocomposites. Nanotechnology, 2008, 19, 205709.	2.6	114
31	Styreneâ€“butadiene rubber/halloysite nanotubes nanocomposites modified by methacrylic acid. Applied Surface Science, 2008, 255, 2715-2722.	6.1	108
32	Polyphenol-Reduced Graphene Oxide: Mechanism and Derivatization. Journal of Physical Chemistry C, 2011, 115, 20740-20746.	3.1	104
33	Tuning the mechanical and dynamic properties of imine bond crosslinked elastomeric vitrimers by manipulating the crosslinking degree. Polymer Chemistry, 2020, 11, 1348-1355.	3.9	100
34	Interface Engineering toward Promoting Silanization by Ionic Liquid for High-Performance Rubber/Silica Composites. Industrial & Engineering Chemistry Research, 2015, 54, 10747-10756.	3.7	99
35	Significantly improved rubber-silica interface via subtly controlling surface chemistry of silica. Composites Science and Technology, 2018, 156, 70-77.	7.8	99
36	General route to graphene with liquid-like behavior by non-covalent modification. Soft Matter, 2012, 8, 9214.	2.7	88

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37	Structure and Performance of Polyamide 6/Halloysite Nanotubes Nanocomposites. Polymer Journal, 2009, 41, 835-842.	2.7	87
38	Enabling Design of Advanced Elastomer with Bioinspired Metalâ€“Oxygen Coordination. ACS Applied Materials & Interfaces, 2016, 8, 32520-32527.	8.0	87
39	Rational design of covalent interfaces for graphene/elastomer nanocomposites. Composites Science and Technology, 2016, 132, 68-75.	7.8	86
40	Vapor grown carbon nanofiber reinforced bio-based polyester for electroactive shape memory performance. Composites Science and Technology, 2013, 75, 15-21.	7.8	84
41	Mechanically Robust and Recyclable EPDM Rubber Composites by a Green Cross-Linking Strategy. ACS Sustainable Chemistry and Engineering, 2019, 7, 11712-11720.	6.7	84
42	Scalable fabrication of thermally conductive elastomer/boron nitride nanosheets composites by slurry compounding. Composites Science and Technology, 2016, 123, 179-186.	7.8	83
43	Sustainable, recyclable and robust elastomers enabled by exchangeable interfacial cross-linking. Journal of Materials Chemistry A, 2018, 6, 13607-13612.	10.3	83
44	Biomimetic design of elastomeric vitrimers with unparalleled mechanical properties, improved creep resistance and retained malleability by metalâ€“ligand coordination. Journal of Materials Chemistry A, 2019, 7, 26867-26876.	10.3	83
45	Tailoring the wettability of polypropylene surfaces with halloysite nanotubes. Journal of Colloid and Interface Science, 2010, 350, 186-193.	9.4	78
46	The use of rhodamine B-decorated graphene as a reinforcement in polyvinyl alcohol composites. Polymer, 2012, 53, 673-680.	3.8	76
47	Programming dynamic imine bond into elastomer/graphene composite toward mechanically strong, malleable, and multi-stimuli responsive vitrimer. Composites Science and Technology, 2018, 168, 214-223.	7.8	74
48	Effects of halloysite nanotubes on kinetics and activation energy of non-isothermal crystallization of polypropylene. Journal of Polymer Research, 2010, 17, 109-118.	2.4	73
49	Exchangeable interfacial crosslinks towards mechanically robust elastomer/carbon nanotubes vitrimers. Composites Science and Technology, 2018, 165, 24-30.	7.8	73
50	Remarkably improving performance of carbon black-filled rubber composites by incorporating MoS2 nanoplatelets. Composites Science and Technology, 2016, 132, 93-100.	7.8	72
51	Poly(vinyl alcohol)/halloysite nanotubes bionanocomposite films: Properties and <i>in vitro</i> osteoblasts and fibroblasts response. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1574-1587.	4.0	71
52	Bioinspired Interface Engineering in Elastomer/Graphene Composites by Constructing Sacrificial Metalâ€“Ligand Bonds. Macromolecular Rapid Communications, 2016, 37, 1040-1045.	3.9	71
53	Malleable organic/inorganic thermosetting hybrids enabled by exchangeable silyl ether interfaces. Journal of Materials Chemistry A, 2019, 7, 1459-1467.	10.3	71
54	Polymerâ€modified halloysite composite nanotubes. Journal of Applied Polymer Science, 2008, 110, 3638-3646.	2.6	69

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55	A generic solvent exchange method to disperse MoS2 in organic solvents to ease the solution process. Chemical Communications, 2014, 50, 3934.	4.1	68
56	Carbon Nanodots as High-Functionality Cross-Linkers for Bioinspired Engineering of Multiple Sacrificial Units toward Strong yet Tough Elastomers. Macromolecules, 2017, 50, 3244-3253.	4.8	66
57	Incorporation of graphene into polyester/carbon nanofibers composites for better multi-stimuli responsive shape memory performances. Carbon, 2013, 64, 487-498.	10.3	63
58	Preparation of halloysite nanotubes supported 2-mercaptobenzimidazole and its application in natural rubber. Composites Part A: Applied Science and Manufacturing, 2015, 73, 63-71.	7.6	62
59	Synthesis and characterization of biobased isosorbide-containing copolyesters as shape memory polymers for biomedical applications. Journal of Materials Chemistry B, 2014, 2, 7877-7886.	5.8	60
60	Preparation and Characterization of Polypropylene Grafted Halloysite and Their Compatibility Effect to Polypropylene/Halloysite Composite. Polymer Journal, 2006, 38, 1198-1204.	2.7	59
61	Preparation, structure and properties of nitrileâ€“butadiene rubberâ€“organoclay nanocomposites by reactive mixing intercalation method. Journal of Applied Polymer Science, 2006, 100, 1905-1913.	2.6	58
62	Concurrently improved dispersion and interfacial interaction in rubber/nanosilica composites via efficient hydrosilane functionalization. Composites Science and Technology, 2019, 169, 217-223.	7.8	58
63	Design of next-generation cross-linking structure for elastomers toward green process and a real recycling loop. Science Bulletin, 2020, 65, 889-898.	9.0	58
64	Toughening Elastomers Using a Mussel-Inspired Multiphase Design. ACS Applied Materials & Interfaces, 2018, 10, 23485-23489.	8.0	57
65	The use of a hybrid consisting of tubular clay and graphene as a reinforcement for elastomers. RSC Advances, 2013, 3, 17057.	3.6	54
66	Reprocessable and robust crosslinked elastomers via interfacial C N transalkylation of pyridinium. Composites Science and Technology, 2018, 168, 320-326.	7.8	51
67	Interfacial structure and performance of rubber/boehmite nanocomposites modified by methacrylic acid. Polymer, 2011, 52, 4387-4395.	3.8	49
68	Nanodot-Loaded Clay Nanotubes as Green and Sustained Radical Scavengers for Elastomer. ACS Sustainable Chemistry and Engineering, 2017, 5, 1775-1783.	6.7	49
69	Adsorption of Ionic Liquid onto Halloysite Nanotubes: Mechanism and Reinforcement of the Modified Clay to Rubber. Journal of Macromolecular Science - Physics, 2010, 49, 1029-1043.	1.0	48
70	Effects of interfacial interaction on chain dynamics of rubber/graphene oxide hybrids: a dielectric relaxation spectroscopy study. RSC Advances, 2013, 3, 14549.	3.6	48
71	New evidence disclosed for networking in natural rubber by dielectric relaxation spectroscopy. Soft Matter, 2015, 11, 2290-2299.	2.7	48
72	Coating polyrhodanine onto boron nitride nanosheets for thermally conductive elastomer composites. Composites Part A: Applied Science and Manufacturing, 2017, 94, 77-85.	7.6	48

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73	Benzothiazole sulfide compatibilized polypropylene/halloysite nanotubes composites. Applied Surface Science, 2009, 255, 4961-4969.	6.1	45
74	A green method for preparing conductive elastomer composites with interconnected graphene network via Pickering emulsion templating. Chemical Engineering Journal, 2018, 342, 112-119.	12.7	44
75	Uniaxial Stretching-Induced Alignment of Carbon Nanotubes in Cross-Linked Elastomer Enabled by Dynamic Cross-Link Reshuffling. ACS Macro Letters, 2019, 8, 1575-1581.	4.8	43
76	A scalable strategy for constructing three-dimensional segregated graphene network in polymer via hydrothermal self-assembly. Chemical Engineering Journal, 2019, 363, 300-308.	12.7	42
77	Bioinspired design of elastomeric vitrimers with sacrificial metal-ligand interactions leading to supramechanical robustness and retentive malleability. Materials and Design, 2020, 192, 108756.	7.0	42
78	Formation of Reinforcing Inorganic Network in Polymer via Hydrogen Bonding Self-Assembly Process. Polymer Journal, 2007, 39, 208-212.	2.7	41
79	Stronger and Faster Degradable Biobased Poly(propylene sebacate) as Shape Memory Polymer by Incorporating Boehmite Nanoplatelets. ACS Applied Materials & Interfaces, 2012, 4, 4006-4014.	8.0	41
80	Thiolâ€containing ionic liquid for the modification of styreneâ€“butadiene rubber/silica composites. Journal of Applied Polymer Science, 2012, 123, 1252-1260.	2.6	41
81	Sodium Humate Functionalized Graphene and Its Unique Reinforcement Effects for Rubber. Industrial & Engineering Chemistry Research, 2013, 52, 14592-14600.	3.7	40
82	Surface modification of halloysite nanotubes by vulcanization accelerator and properties of styrene-butadiene rubber nanocomposites with modified halloysite nanotubes. Applied Surface Science, 2016, 366, 193-201.	6.1	40
83	Bioinspired engineering of sacrificial bonds into rubber networks towards high-performance and functional elastomers. Composites Communications, 2018, 8, 65-73.	6.3	40
84	A real recycling loop of sulfur-cured rubber through transalkylation exchange of Câ€“S bonds. Green Chemistry, 2018, 20, 5454-5458.	9.0	40
85	Sustainable Carbon Nanodots with Tunable Radical Scavenging Activity for Elastomers. ACS Sustainable Chemistry and Engineering, 2016, 4, 247-254.	6.7	39
86	Preparation and structure of highly confined intercalated polystyrene/montmorillonite nanocomposite via a two-step method. European Polymer Journal, 2005, 41, 1781-1786.	5.4	38
87	Reinforcing thermoplastics with hydrogen bonding bridged inorganics. Physica B: Condensed Matter, 2010, 405, 655-662.	2.7	37
88	Bioinspired Design of a Robust Elastomer with Adaptive Recovery via Triazolinedione Click Chemistry. Macromolecular Rapid Communications, 2017, 38, 1600678.	3.9	37
89	Effects of dynamic covalent bond multiplicity on the performance of vitrimeric elastomers. Journal of Materials Chemistry A, 2020, 8, 20503-20512.	10.3	36
90	Enhanced comprehensive performance of SSBR/BR with self-assembly reduced graphene oxide/silica nanocomposites. Composites Part B: Engineering, 2019, 175, 107027.	12.0	34

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91	Fluorescent whitening agent stabilized graphene and its composites with chitosan. Journal of Materials Chemistry, 2011, 21, 17111.	6.7	33
92	CORRELATION OF FILLER NETWORKING WITH REINFORCEMENT AND DYNAMIC PROPERTIES OF SSBR/CARBON BLACK/SILICA COMPOSITES. Rubber Chemistry and Technology, 2015, 88, 676-689.	1.2	33
93	Engineering Segregated Structures in a Cross-Linked Elastomeric Network Enabled by Dynamic Cross-Link Reshuffling. ACS Macro Letters, 2021, 10, 231-236.	4.8	33
94	Curing of Rubber via Oxa-Michael Reaction toward Significantly Increased Aging Resistance. Industrial & Engineering Chemistry Research, 2013, 52, 18123-18130.	3.7	32
95	Catalyst-Free Metathesis of Cyclic Acetals and Spirocyclic Acetal Covalent Adaptable Networks. ACS Macro Letters, 2020, 9, 1143-1148.	4.8	32
96	Hygrothermal stability of dicyanate-novolac epoxy resin blends. Polymer Degradation and Stability, 2003, 79, 521-528.	5.8	30
97	Thermal Decomposition and Oxidation Ageing Behaviour of Polypropylene/Halloysite Nanotube Nanocomposites. Polymers and Polymer Composites, 2007, 15, 321-328.	1.9	30
98	The Role of Interactions between Halloysite Nanotubes and 2,2â€²-(1,2-Ethenediyldi-4,1-phenylene) Bisbenzoxazole in Halloysite Reinforced Polypropylene Composites. Polymer Journal, 2008, 40, 1087-1093.	2.7	30
99	Renewable conjugated acids as curatives for high-performance rubber/silica composites. Green Chemistry, 2015, 17, 3301-3305.	9.0	30
100	Strikingly improved toughness of nonpolar rubber by incorporating sacrificial network at small fraction. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 781-786.	2.1	29
101	Thermoplastic Elastomers Derived from Scrap Rubber Powder/LLDPE Blend with LLDPE-graft-(Epoxidized Natural Rubber) Dual Compatibilizer. Macromolecular Materials and Engineering, 2004, 289, 360-367.	3.6	28
102	Scalable and Versatile Graphene Functionalized with the Mannich Condensate. ACS Applied Materials & Interfaces, 2013, 5, 2174-2181.	8.0	28
103	Probing the unexpected behavior of AuNPs migrating through nanofibers: a new strategy for the fabrication of carbon nanofiberâ€"noble metal nanocrystal hybrid nanostructures. Journal of Materials Chemistry A, 2014, 2, 11728-11741.	10.3	28
104	Correlating synergistic reinforcement with chain motion in elastomer/nanocarbon hybrids composites. Soft Matter, 2016, 12, 6893-6901.	2.7	27
105	High-performance rubber/boehmite nanoplatelets composites by judicious in situ interfacial design. Composites Science and Technology, 2017, 146, 191-197.	7.8	27
106	Solving â€œmagic triangleâ€•of tread rubber composites with phosphonium-modified petroleum resin. Polymer, 2020, 190, 122244.	3.8	27
107	Significantly improved performance of rubber/silica composites by addition of sorbic acid. Polymer Journal, 2010, 42, 319-326.	2.7	25
108	Synthesis of bio-based copolyester and its reinforcement with zinc diacrylate for shape memory application. Polymer, 2014, 55, 4324-4331.	3.8	25

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109	Wrapping of polyrhodanine onto tubular clay and its prominent effects on the reinforcement of the clay for rubber. Composites Part A: Applied Science and Manufacturing, 2016, 84, 344-353.	7.6	25
110	Crosslinking diene rubbers by using an inverse vulcanised co-polymer. Green Chemistry, 2020, 22, 7337-7342.	9.0	25
111	Low permeability styrene butadiene rubber/boehmite nanocomposites modified with tannic acid. Materials and Design, 2016, 103, 25-31.	7.0	24
112	Rubber-reinforced rubbers toward the combination of high reinforcement and low energy loss. Nano Energy, 2021, 83, 105822.	16.0	24
113	Effects of Thermal and UV-induced Grafting of Bismaleimide on Mechanical Performance of Reclaimed Rubber/Natural Rubber Blends. Journal of Polymer Research, 2005, 12, 473-482.	2.4	23
114	SBR/silica composites modified by a polymerizable protic ionic liquid. Polymer Journal, 2010, 42, 555-561.	2.7	23
115	Effects of substitution for carbon black with graphene oxide or graphene on the morphology and performance of natural rubber/carbon black composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	23
116	Effects of Alkalinity of Ionic Liquid on Catalyzed Silanization in Rubber/Silica Composites. Industrial & Engineering Chemistry Research, 2019, 58, 18654-18662.	3.7	23
117	Iron ion cluster-OH coordination as high-efficiency sacrificial bond for reinforcement of elastomer. Polymer, 2020, 186, 122059.	3.8	23
118	Notably Improved Dispersion of Carbon Black for High-Performance Natural Rubber Composites via Triazolinedione Click Chemistry. Industrial & Engineering Chemistry Research, 2020, 59, 21047-21057.	3.7	23
119	The use of inverse vulcanised polysulfide as an intelligent interfacial modifier in rubber/carbon black composites. Carbon, 2021, 184, 409-417.	10.3	23
120	Regulation of mechanical properties of diene rubber cured by oxa-Michael Reaction via manipulating network structure. Polymer, 2018, 144, 57-64.	3.8	22
121	Dispersion of graphene in chlorosulfonated polyethylene by slurry compounding. Composites Science and Technology, 2018, 162, 156-162.	7.8	22
122	Extrudable Vitrimeric Rubbers Enabled via Heterogeneous Network Design. Macromolecules, 2022, 55, 3236-3248.	4.8	22
123	Graphene oxide/rhodanine redox chemistry and its application in designing high-performance elastomer/graphene composites. RSC Advances, 2015, 5, 84398-84405.	3.6	21
124	A Novel and Non-Cytotoxic Self-Healing Supramolecular Elastomer Synthesized with Small Molecular Biological Acids. Macromolecular Rapid Communications, 2016, 37, 1603-1610.	3.9	21
125	Preparation and Application of a New Curing Agent for Epoxy Resin. International Journal of Polymeric Materials and Polymeric Biomaterials, 2012, 61, 520-531.	3.4	20
126	Integrating transient and sacrificial bonds into biobased elastomers toward mechanical property enhancement and macroscopically responsive property. Polymer, 2019, 184, 121914.	3.8	20

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127	Facile Strategy for the Biomimetic Heterogeneous Design of Elastomers with Mechanical Robustness, Malleability, and Functionality. ACS Macro Letters, 2020, 9, 49-55.	4.8	20
128	Preparation and characterization of high strength and noncytotoxic bioelastomers containing isosorbide. RSC Advances, 2014, 4, 19462.	3.6	19
129	Exploitation of introducing of catalytic centers into layer galleries of layered silicates and related epoxy nanocomposites. I. Epoxy nanocomposites derived from montmorillonite modified with catalytic surfactant-bearing carboxyl groups. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1192-1198.	2.1	18
130	Structure and properties of polypropylene/clay nanocomposites compatibilized by solidâ€phase grafted polypropylene. Polymer Composites, 2008, 29, 698-701.	4.6	18
131	Reversible plasticity shape memory polymers: Key factors and applications. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1295-1299.	2.1	18
132	Significantly Improving Strength and Damping Performance of Nitrile Rubber via Incorporating Sliding Graft Copolymer. Industrial & Engineering Chemistry Research, 2018, 57, 16692-16700.	3.7	18
133	Polyrhodanine mediated interface in natural rubber/carbon black composites toward ultralow energy loss. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106589.	7.6	18
134	Structure and Properties of Poly(vinyl chloride)/Halloysite Nanotubes Nanocomposites. Journal of Macromolecular Science - Physics, 2012, 51, 968-981.	1.0	17
135	Preparation and performance of bio-based carboxylic elastomer/halloysite nanotubes nanocomposites with strong interfacial interaction. Composites Part A: Applied Science and Manufacturing, 2017, 102, 253-262.	7.6	17
136	Generic Method to Create Segregated Structures toward Robust, Flexible, Highly Conductive Elastomer Composites. ACS Applied Materials & Interfaces, 2021, 13, 24154-24163.	8.0	17
137	Recyclable crosslinked elastomer based on dynamic dithioacetals. Polymer, 2021, 229, 124007.	3.8	17
138	Dispersing Graphene in Hydroxypropyl Cellulose by Utilizing its LCST Behavior. Macromolecular Chemistry and Physics, 2012, 213, 1370-1377.	2.2	16
139	Optimization of mechanical performance of compatibilized polypropylene/poly(ethylene terephthalate) blends via selective dispersion of halloysite nanotubes in the blend. Journal of Applied Polymer Science, 2013, 129, 47-56.	2.6	16
140	CHALLENGE OF RUBBER/GRAPHENE COMPOSITES AIMING AT REAL APPLICATIONS. Rubber Chemistry and Technology, 2017, 90, 225-237.	1.2	16
141	Promoted dispersion of silica and interfacial strength in rubber/silica composites by grafting with oniums. Journal of Applied Polymer Science, 2019, 136, 48243.	2.6	16
142	A slurry compounding route to disperse graphene oxide in rubber. Materials Letters, 2017, 191, 93-96.	2.6	15
143	A facile one-pot route to elastomeric vitrimers with tunable mechanical performance and superior creep resistance. Polymer, 2022, 238, 124379.	3.8	15
144	Structure evolution of carbon black under ionic-liquid-assisted microwave irradiation. Applied Surface Science, 2009, 255, 8488-8493.	6.1	13

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145	Dispersing carbon dots in non-polar rubber by slurry compounding and in situ compatibilizing. Composites Communications, 2020, 22, 100429.	6.3	13
146	Carbon nanodots as an eco-friendly activator of sulphur vulcanization in diene-rubber composites. Composites Communications, 2021, 25, 100755.	6.3	12
147	Preparing Exfoliated MMT/Polymer Nanocomposites by Combined Latex Compounding and Sprayâ€Drying. Macromolecular Materials and Engineering, 2012, 297, 20-25.	3.6	11
148	Generic Mechanochemical Grafting Strategy toward Organophilic Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 7666-7674.	8.0	11
149	Elastomer Reinforced with Innate Sulfur-Based Cross-Links as Ligands. ACS Macro Letters, 2019, 8, 1091-1095.	4.8	11
150	A bio-based, robust and recyclable thermoset polyester elastomer by using an inverse vulcanised polysulfide as a crosslinker. Polymer Chemistry, 2022, 13, 485-491.	3.9	11
151	Creating molecular bridges across the interfaces in segregated composites toward improved conductive and mechanical properties. Composites Science and Technology, 2022, 222, 109377.	7.8	11
152	Use of naturally small molecule as an intelligent interfacial modifier for strengthening and toughening silica-filled rubber composite. Composites Science and Technology, 2022, 227, 109624.	7.8	11
153	Morphology and properties of halloysite nanotubes reinforced polypropylene nanocomposites. E-Polymers, 2008, 8, .	3.0	10
154	Tubular Clay Composites with High Strength and Transparency. Journal of Macromolecular Science - Physics, 2010, 49, 111-121.	1.0	10
155	Cure Behaviour and Structure of Dicyanate-Epoxy Novolac Blends. Polymers and Polymer Composites, 2002, 10, 237-248.	1.9	8
156	Elastic-resilience-induced dispersion of carbon nanotubes: a novel way of fabricating high performance elastomer. Nanotechnology, 2013, 24, 465708.	2.6	8
157	Creation of Tortuosity in Unfilled Rubber via Heterogeneous Cross-Linking toward Improved Barrier Property. Macromolecules, 2021, 54, 11522-11532.	4.8	8
158	Effects of epoxy content on dynamic mechanical behaviour of PEI-toughened dicyanateâ€“novolac epoxy blends. Polymer International, 2004, 53, 1378-1381.	3.1	7
159	Influence of hybrid fibrils of 2,5-bis(2-benzoxazolyl) thiophene and halloysite nanotubes on the crystallization behaviour of polypropylene. Journal Physics D: Applied Physics, 2009, 42, 075306.	2.8	7
160	Interphase Percolation Mechanism Underlying Elastomer Reinforcement. Journal of Physical Chemistry C, 2017, 121, 28594-28603.	3.1	7
161	Adamantane imine as a seminal interfacial mediator toward rubber/carbon black composites with superior energy-saving capability and aging resistance. Composites Science and Technology, 2022, 225, 109482.	7.8	6
162	Dispersion and dynamic property in SBR/silica composites: Revisiting the utilization of benzyl chloride silane. Polymer Composites, 2016, 37, 446-454.	4.6	5

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163	Superhydrophobic surfaces with nanofibers or nanorods based on thiophene derivatives. Applied Physics Letters, 2010, 96, .	3.3	4
164	Sustainable shape memory polymers based on epoxidized natural rubber cured by zinc ferulate via oxa-Michael reaction. International Journal of Smart and Nano Materials, 2015, 6, 195-210.	4.2	4
165	Reinforced Rubber with Ionic Liquid Modifued Carbon Black. Polymers and Polymer Composites, 2011, 19, 593-602.	1.9	3
166	Liquefied Graphene Oxide with Excellent Amphiphilicity. Chemistry Letters, 2014, 43, 222-224.	1.3	3
167	Microwaveâ€assisted alcoholysis of silicone rubber waste with geraniol for effective elastomer damping. Polymer Engineering and Science, 0, , .	3.1	3
168	Promoted strain-induced crystallization of cis-1, 4-polyisoprene with functional carbon nanodots. Advanced Industrial and Engineering Polymer Research, 2019, 2, 25-31.	4.7	1
169	Surface modification of waste silicone rubber via alcoholysis reaction and its application in polypropylene toughening. Journal of Polymer Research, 2022, 29, 1.	2.4	1
170	High perfermance light-colored rubber nanocomposites. , 2010, , .		0
171	Styrene-butadiene rubber/halloysite nanotubes composites modified by epoxidized natural rubber. , 2010, , .		0
172	Heterogeneous network design strategy toward mechanically robust and recyclable elastomers. Polymer, 2022, 245, 124710.	3.8	0