Liqun Zhang

List of Publications by Year
in descending order

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489	25,145	5896	13771
papers	citations	81 h-index	129 g-index

496	496	496	21821
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Left ventricular venting during extracorporeal membrane oxygenation; the effects on cardiac performance in a porcine model of critical post-cardiotomy failure. Perfusion (United Kingdom), 2023, 38, 1399-1408.	1.0	1
2	Enhanced thermal conductivity and mechanical properties of polymeric composites through formation of covalent bonds between boron nitride and rubber chains. Polymers for Advanced Technologies, 2022, 33, 212-220.	3.2	8
3	Constructing Chemical Interface Layers by Using Ionic Liquid in Graphene Oxide/Rubber Composites to Achieve High-Wear Resistance in Environmental-Friendly Green Tires. ACS Applied Materials & Interfaces, 2022, 14, 5995-6004.	8.0	22
4	HBD-2 binds SARS-CoV-2 RBD and blocks viral entry: Strategy to combat COVID-19. IScience, 2022, 25, 103856.	4.1	23
5	Supramolecular Cationâ˜Ï€ Interaction Enhances Molecular Solar Thermal Fuel. ACS Applied Materials & Interfaces, 2022, 14, 1940-1949.	8.0	17
6	Structureâ€“Mechanics Relation of Natural Rubber: Insights from Molecular Dynamics Simulations. ACS Applied Polymer Materials, 2022, 4, 3575-3586.	4.4	27
7	Enhanced adhesion property of aramid fibers by polyphenol-metal iron complexation and silane grafting. Journal of Adhesion, 2021, 97, 346-360.	3.0	17
8	Chain dynamics evolution of ethyleneâ€propyleneâ€diene monomer in response to hot humid and salt fog environment. Journal of Applied Polymer Science, 2021, 138, 50724.	2.6	3
9	Molecular Dynamics Simulations of Human Beta-Defensin Type 3 Crossing Different Lipid Bilayers. ACS Omega, 2021, 6, 13926-13939.	3.5	10
10	Dynamic Polyphosphazene Networks with Modulating Shape Memory and Selfâ€Healing Capacity by Double Coordination Interactions. Macromolecular Materials and Engineering, 2021, 306, 2100349.	3.6	8
11	Structural Polymorphism of Chitin and Chitosan in Fungal Cell Walls From Solid-State NMR and Principal Component Analysis. Frontiers in Molecular Biosciences, 2021, 8, 727053.	3.5	46
12	Interaction of Human Î² Defensin Type 3 (hBD-3) with Different PIP2-Containing Membranes, a Molecular Dynamics Simulation Study. Journal of Chemical Information and Modeling, 2021, 61, 4670-4686.	5.4	7
13	Binding free energy calculation of human beta defensin 3 with negatively charged lipid bilayer using free energy perturbation method. Biophysical Chemistry, 2021, 277, 106662.	2.8	6
14	Optimizing the heterogeneous network structure to achieve polymer nanocomposites with excellent mechanical properties. Physical Chemistry Chemical Physics, 2021, 23, 4437-4452.	2.8	4
15	Grafting of Isobutyleneâ€“Isoprene Rubber with Glycidyl Methacrylate and Its Reactive Compatibilization Effect on Isobutyleneâ€“Isoprene Rubber/Polyamides 12 Blends. Industrial & Engineering Chemistry Research, 2021, 60, 16258-16266.	3.7	13
16	Deep Insight into the Influences of the Intrinsic Properties of Dielectric Elastomer on the Energy-Harvesting Performance of the Dielectric Elastomer Generator. Polymers, 2021, 13, 4202.	4.5	5
17	Enhancement of Solar Thermal Fuel by Microphase Separation and Nanoconfinement of a Block Copolymer. Chemistry of Materials, 2021, 33, 9750-9759.	6.7	19
18	Green Fabrication of High-Performance, Lignosulfonate-Functionalized, and Reduced-Graphene Oxide Styreneâ€“Butadiene Rubber Composites. Industrial & Engineering Chemistry Research, 2021, 60, 17989-17998.	3.7	5

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19	Effective delivery of mitomycinâ€C and meloxicam by doubleâ€layer electrospun membranes for the prevention of epidural adhesions. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 353-366.	3.4	17
20	Coupling effect of molecular weight and crosslinking kinetics on the formation of rubber nanoparticles and their agglomerates in EPDM/PP TPVs during dynamic vulcanization. Soft Matter, 2020, 16, 2185-2198.	2.7	23
21	Double Network Elastomers: Selfâ€Assembly Strategy for Double Network Elastomer Nanocomposites with Ultralow Energy Consumption and Ultrahigh Wear Resistance (Adv. Funct. Mater. 34/2020). Advanced Functional Materials, 2020, 30, 2070227.	14.9	0
22	Enhanced Fatigue and Durability Properties of Natural Rubber Composites Reinforced with Carbon Nanotubes and Graphene Oxide. Materials, 2020, 13, 5746.	2.9	13
23	Itaconate Based Elastomer as a Green Alternative to Styreneâ€“Butadiene Rubber for Engineering Applications: Performance Comparison. Processes, 2020, 8, 1527.	2.8	10
24	Design of Epoxy-Functionalized Styrene-Butadiene Rubber with Bio-Based Dicarboxylic Acid as a Cross-Linker toward the Green-Curing Process and Recyclability. Industrial & Engineering Chemistry Research, 2020, 59, 10447-10456.	3.7	18
25	Comparative evaluation of moisture susceptibility of modified/foamed asphalt binders combined with different types of aggregates using surface free energy approach. Construction and Building Materials, 2020, 256, 119429.	7.2	16
26	Selfâ€Assembly Strategy for Double Network Elastomer Nanocomposites with Ultralow Energy Consumption and Ultrahigh Wear Resistance. Advanced Functional Materials, 2020, 30, 2003429.	14.9	22
27	Disulfide Bonds Affect the Binding Sites of Human Î² Defensin Type 3 on Negatively Charged Lipid Membranes. Journal of Physical Chemistry B, 2020, 124, 2088-2100.	2.6	11
28	Synthesis of star-shaped polyzwitterions with adjustable UCST and fast responsiveness by a facile RAFT polymerization. Polymer Chemistry, 2020, 11, 3162-3168.	3.9	14
29	Preparation and Performance of Silica/ESBR Nanocomposites Modified by Bio-Based Dibutyl Itaconate. Polymers, 2019, 11, 1820.	4.5	8
30	Integrated solid-state NMR and molecular dynamics modeling determines membrane insertion of human Î²-defensin analog. Communications Biology, 2019, 2, 402.	4.4	18
31	Multifunctional Vitrimer-Like Polydimethylsiloxane (PDMS): Recyclable, Self-Healable, and Water-Driven Malleable Covalent Networks Based on Dynamic Imine Bond. Industrial & Engineering Chemistry Research, 2019, 58, 1212-1221.	3.7	108
32	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
33	Environmentally Friendly Method To Prepare Thermo-Reversible, Self-Healable Biobased Elastomers by One-Step Melt Processing. ACS Applied Polymer Materials, 2019, 1, 169-177.	4.4	23
34	Design and synthesis of a fluorescent amino poly(glycidyl methacrylate) for efficient gene delivery. Journal of Materials Chemistry B, 2019, 7, 1875-1881.	5.8	5
35	Improved Mechanical and Electrochemical Properties of XNBR Dielectric Elastomer Actuator by Poly(dopamine) Functionalized Graphene Nano-Sheets. Polymers, 2019, 11, 218.	4.5	38
36	Core-sheath micro/nano fiber membrane with antibacterial and osteogenic dual functions as biomimetic artificial periosteum for bone regeneration applications. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 17, 124-136.	3.3	35

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37	Simultaneously improved dielectric and mechanical properties of silicone elastomer by designing a dual crosslinking network. Polymer Chemistry, 2019, 10, 633-645.	3.9	51
38	A mussel-like inspired modification of BaTiO3 nanopartciles using catechol/polyamine co-deposition and silane grafting for high-performance dielectric elastomer composites. Composites Part B: Engineering, 2019, 172, 621-627.	12.0	39
39	Improved thermal conductivity and electromechanical properties of natural rubber by constructing Al2O3-PDA-Ag hybrid nanoparticles. Composites Science and Technology, 2019, 180, 86-93.	7.8	63
40	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
41	Self-assembly and structural manipulation of diblock-copolymer grafted nanoparticles in a homopolymer matrix. Physical Chemistry Chemical Physics, 2019, 21, 11785-11796.	2.8	12
42	Novel nitrile-butadiene rubber composites with enhanced thermal conductivity and high dielectric constant. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105447.	7.6	61
43	Constructing Sacrificial Multiple Networks To Toughen Elastomer. Macromolecules, 2019, 52, 4154-4168.	4.8	43
44	Molecular dynamics simulation study of the fracture properties of polymer nanocomposites filled with grafted nanoparticles. Physical Chemistry Chemical Physics, 2019, 21, 11320-11328.	2.8	16
45	Flexible Breathable Nanomesh Electronic Devices for Onâ€Demand Therapy. Advanced Functional Materials, 2019, 29, 1902127.	14.9	108
46	The Effect of Epoxidation on Strainâ€Induced Crystallization of Epoxidized Natural Rubber. Macromolecular Rapid Communications, 2019, 40, e1900042.	3.9	29
47	Impact of uniaxial tensile fatigue on the evolution of microscopic and mesoscopic structure of carbon black filled natural rubber. Royal Society Open Science, 2019, 6, 181883.	2.4	5
48	A novel method to prepare acrylonitrile-butadiene rubber/clay nanocomposites by compounding with clay gel. Composites Part B: Engineering, 2019, 167, 356-361.	12.0	33
49	Infection-responsive electrospun nanofiber mat for antibacterial guided tissue regeneration membrane. Materials Science and Engineering C, 2019, 100, 523-534.	7.3	42
50	Fabricated Biobased Eucommia Ulmoides Gum/Polyolefin Elastomer Thermoplastic Vulcanizates into a Shape Memory Material. Industrial & Engineering Chemistry Research, 2019, 58, 6375-6384.	3.7	39
51	Increasing the electrical conductivity of polymer nanocomposites under the external field by tuning nanofiller shape. Composites Science and Technology, 2019, 176, 37-45.	7.8	14
52	Designing Superlattice Structure via Self-Assembly of One-Component Polymer-Grafted Nanoparticles. Journal of Physical Chemistry B, 2019, 123, 2157-2168.	2.6	16
53	Improved electric energy density and conversion efficiency of natural rubber composites as dielectric elastomer generators. AIP Advances, 2019, 9, .	1.3	21
54	Optimizing the electrical conductivity of polymer nanocomposites under the shear field by hybrid fillers: Insights from molecular dynamics simulation. Polymer, 2019, 168, 138-145.	3.8	13

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55	Design, Preparation, and Evaluation of a Novel Elastomer with Bio-Based Diethyl Itaconate Aiming at High-Temperature Oil Resistance. Polymers, 2019, 11, 1897.	4.5	8
56	A solvent-less green synthetic route toward a sustainable bio-based elastomer: design, synthesis, and characterization of poly(dibutyl itaconate-co-butadiene). Polymer Chemistry, 2019, 10, 6131-6144.	3.9	19
57	Influence of interfacial compatibilizer, silane modification, and filler hybrid on the performance of NR/NBR blends. Journal of Applied Polymer Science, 2019, 136, 47421.	2.6	3
58	Photothermal-Induced Self-Healable and Reconfigurable Shape Memory Bio-Based Elastomer with Recyclable Ability. ACS Applied Materials & Interfaces, 2019, 11, 1469-1479.	8.0	142
59	Nano Twin-Fiber Membrane with Osteogenic and Antibacterial Dual Functions as Artificial Periosteum for Long Bone Repairing. Journal of Biomedical Nanotechnology, 2019, 15, 272-287.	1.1	16
60	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
61	Triboelectric Nanogenerator Boosts Smart Green Tires. Advanced Functional Materials, 2019, 29, 1806331.	14.9	52
62	Quantitatively identify and understand the interphase of SiO2/rubber nanocomposites by using nanomechanical mapping technique of AFM. Composites Science and Technology, 2019, 170, 1-6.	7.8	66
63	Preparation and structure of rare earth/thermoplastic polyurethane fiber for Xâ€ray shielding. Journal of Applied Polymer Science, 2019, 136, 47435.	2.6	14
64	The role of dipole structure and their interaction on the electromechanical and actuation performance of homogeneous silicone dielectric elastomers. Polymer, 2019, 165, 1-10.	3.8	42
65	Nitrile rubber/sliding graft copolymer damping material with significantly improved strength and damping performance. Journal of Applied Polymer Science, 2019, 136, 47188.	2.6	14
66	Bio-based polyesters based on 2,5-furandicarboxylic acid as 3D-printing materials: Design, preparation and performances. European Polymer Journal, 2019, 114, 476-484.	5.4	14
67	Mussel Inspired Modification for Aluminum Oxide/Silicone Elastomer Composites with Largely Improved Thermal Conductivity and Low Dielectric Constant. Industrial & Engineering Chemistry Research, 2018, 57, 3255-3262.	3.7	83
68	Investigation on two human defensin dimers: structure prediction and refinement using a combined simulation strategy. Molecular Simulation, 2018, 44, 757-768.	2.0	0
69	Renewable resource-based elastomer nanocomposite derived from myrcene, ethanol, itaconic acid and nanosilica: Design, preparation and properties. European Polymer Journal, 2018, 106, 1-8.	5.4	16
70	Formation mechanism of bound rubber in elastomer nanocomposites: a molecular dynamics simulation study. RSC Advances, 2018, 8, 13008-13017.	3.6	10
71	Tailoring the mechanical properties by molecular integration of flexible and stiff polymer networks. Soft Matter, 2018, 14, 2379-2390.	2.7	22
72	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

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73	Hydroxide ions transportation in polynorbornene anion exchange membrane. Polymer, 2018, 138, 363-368.	3.8	105
74	Improved dielectric properties, mechanical properties, and thermal conductivity properties of polymer composites via controlling interfacial compatibility with bio-inspired method. Applied Surface Science, 2018, 439, 186-195.	6.1	63
75	Significantly improved rubber-silica interface via subtly controlling surface chemistry of silica. Composites Science and Technology, 2018, 156, 70-77.	7.8	99
76	Chemical and physical interaction between silane coupling agent with long arms and silica and its effect on silica/natural rubber composites. Polymer, 2018, 135, 200-210.	3.8	89
77	Directly and quantitatively studying the interfacial interaction between SiO 2 and elastomer by using peak force AFM. Composites Communications, 2018, 7, 36-41.	6.3	21
78	Thermodynamic and dynamical heterogeneities during glass transition of water. Journal of Molecular Liquids, 2018, 253, 91-95.	4.9	2
79	Effects of chemically heterogeneous nanoparticles on polymer dynamics: insights from molecular dynamics simulations. Soft Matter, 2018, 14, 1219-1226.	2.7	16
80	A Robust, Selfâ€Healable, and Shape Memory Supramolecular Hydrogel by Multiple Hydrogen Bonding Interactions. Macromolecular Rapid Communications, 2018, 39, e1800138.	3.9	78
81	Dispersion of graphene in chlorosulfonated polyethylene by slurry compounding. Composites Science and Technology, 2018, 162, 156-162.	7.8	22
82	Antimicrobial gelatin-based elastomer nanocomposite membrane loaded with ciprofloxacin and polymyxin B sulfate in halloysite nanotubes for wound dressing. Materials Science and Engineering C, 2018, 87, 128-138.	7.3	53
83	Mechanical and Viscoelastic Properties of Polymer-Grafted Nanorod Composites from Molecular Dynamics Simulation. Macromolecules, 2018, 51, 2641-2652.	4.8	33
84	Rational design of advanced elastomer nanocomposites towards extremely energy-saving tires based on macromolecular assembly strategy. Nano Energy, 2018, 48, 180-188.	16.0	65
85	Surface modification of UHMWPE fibers by ozone treatment and UV grafting for adhesion improvement. Journal of Adhesion, 2018, 94, 30-45.	3.0	29
86	Synergetic effect of graphite nanosheets and spherical alumina particles on thermal conductivity enhancement of silicone rubber composites. Polymer Composites, 2018, 39, E1364.	4.6	18
87	Long-acting and broad-spectrum antimicrobial electrospun poly (Îµ-caprolactone)/gelatin micro/nanofibers for wound dressing. Journal of Colloid and Interface Science, 2018, 509, 275-284.	9.4	103
88	Highly toughened polylactide by renewable Eucommia ulmoides gum. Journal of Applied Polymer Science, 2018, 135, 46017.	2.6	19
89	A Solventâ€Resistant and Biocompatible Selfâ€Healing Supramolecular Elastomer with Tunable Mechanical Properties. Macromolecular Chemistry and Physics, 2018, 219, 1700409.	2.2	13
90	Improved electromechanical properties of silicone dielectric elastomer composites by tuning molecular flexibility. Composites Science and Technology, 2018, 155, 160-168.	7.8	68

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91	Preparation, microstructure, and microstructure-properties relationship of thermoplastic vulcanizates (TPVs): A review. Progress in Polymer Science, 2018, 79, 61-97.	24.7	158
92	Understanding the structural evolution under the oscillatory shear field to determine the viscoelastic behavior of nanorod filled polymer nanocomposites. Computational Materials Science, 2018, 142, 192-199.	3.0	12
93	Effect of the structural characteristics of solution styreneâ€“butadiene rubber on the properties of rubber composites. Journal of Applied Polymer Science, 2018, 135, 45749.	2.6	19
94	Plasma induced surface coating on carbon nanotube bundles to fabricate natural rubber nanocomposites. Polymer Testing, 2018, 65, 21-28.	4.8	9
95	Interfacial polarization and dielectric properties of aligned carbon nanotubes/polymer composites: The role of molecular polarity. Composites Science and Technology, 2018, 154, 145-153.	7.8	72
96	Improved mechanical properties and abrasion resistance of styrene butadiene rubber/butadieneâ€“styreneâ€“vinyl pyridine rubber/clay nanocomposites with strong interfacial interaction. Polymer Composites, 2018, 39, 2783-2790.	4.6	5
97	A real recycling loop of sulfur-cured rubber through transalkylation exchange of Câ€“S bonds. Green Chemistry, 2018, 20, 5454-5458.	9.0	40
98	Controlling the electrical conductive network formation in nanorod filled polymer nanocomposites by tuning nanorod stiffness. RSC Advances, 2018, 8, 30248-30256.	3.6	4
99	EFFECT OF THE NANOFILLER SHAPE ON THE CONDUCTIVE NETWORK FORMATION OF POLYMER NANOCOMPOSITES VIA A COARSE-GRAINED SIMULATION. Rubber Chemistry and Technology, 2018, 91, 757-766.	1.2	4
100	Translocation of Human Î² Defensin Type 3 through a Neutrally Charged Lipid Membrane: A Free Energy Study. Journal of Physical Chemistry B, 2018, 122, 11883-11894.	2.6	11
101	A Selfâ€Healing Dielectric Supramolecular Elastomer Functionalized with Aniline Tetramer. Macromolecular Rapid Communications, 2018, 39, e1800349.	3.9	15
102	Enhancement of Dielectric Performance of Polymer Composites via Constructing BaTiO₃â€“Poly(dopamine)â€“Ag Nanoparticles through Mussel-Inspired Surface Functionalization. ACS Omega, 2018, 3, 14087-14096.	3.5	31
103	Polymer Materials Research at CMSE. Macromolecular Rapid Communications, 2018, 39, 1800683.	3.9	0
104	A Flexible Wearable Pressure Sensor with Bioinspired Microcrack and Interlocking for Fullâ€Range Humanâ€“Machine Interfacing. Small, 2018, 14, e1803018.	10.0	156
105	Thermo-mechanical coupling analysis of transient temperature and rolling resistance for solid rubber tire: Numerical simulation and experimental verification. Composites Science and Technology, 2018, 167, 404-410.	7.8	31
106	Controllable Synthesis and Characterization of Soybean-Oil-Based Hyperbranched Polymers via One-Pot Method. ACS Sustainable Chemistry and Engineering, 2018, 6, 12865-12871.	6.7	16
107	Designing the Slide-Ring Polymer Network with both Good Mechanical and Damping Properties via Molecular Dynamics Simulation. Polymers, 2018, 10, 964.	4.5	26
108	Surface Modification of As-Prepared Silver-Coated Silica Microspheres through Mussel-Inspired Functionalization and Its Application Properties in Silicone Rubber. Industrial & Engineering Chemistry Research, 2018, 57, 7486-7494.	3.7	27

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109	Constructing a Multiple Covalent Interface and Isolating a Dispersed Structure in Silica/Rubber Nanocomposites with Excellent Dynamic Performance. ACS Applied Materials & Interfaces, 2018, 10, 19922-19931.	8.0	74
110	Molecular dynamics simulation of the electrical conductive network formation of polymer nanocomposites with polymer-grafted nanorods. Physical Chemistry Chemical Physics, 2018, 20, 21822-21831.	2.8	7
111	Theoretical Model of Timeâ€“Temperature Superposition Principle of the Selfâ€Healing Kinetics of Supramolecular Polymer Nanocomposites. Macromolecular Rapid Communications, 2018, 39, e1800382.	3.9	20
112	Strain rate and temperature dependence of the mechanical properties of polymers: A universal time-temperature superposition principle. Journal of Chemical Physics, 2018, 149, 044105.	3.0	11
113	Toughening Elastomers Using a Mussel-Inspired Multiphase Design. ACS Applied Materials & Interfaces, 2018, 10, 23485-23489.	8.0	57
114	Silica Modified by Alcohol Polyoxyethylene Ether and Silane Coupling Agent Together to Achieve High Performance Rubber Composites Using the Latex Compounding Method. Polymers, 2018, 10, 1.	4.5	426
115	Microscopic theory of heterogeneous phase inversion in rubber/plastic blends. Polymer, 2018, 150, 177-183.	3.8	2
116	Two New Antioxidative Geniposides (Ulmoside C, Ulmoside D) and 10-O-Acetylgeniposidic Acid from Eucommia Ulmoides. Pharmaceutical Chemistry Journal, 2018, 52, 334-338.	0.8	2
117	Quantitation of isoprenoids for natural rubber biosynthesis in natural rubber latex by liquid chromatography with tandem mass spectrometry. Journal of Chromatography A, 2018, 1558, 115-119.	3.7	12
118	Novel Design of Eco-Friendly Super Elastomer Materials With Optimized Hard Segments Micro-Structure: Toward Next-Generation High-Performance Tires. Frontiers in Chemistry, 2018, 6, 240.	3.6	13
119	Uncovering the rupture mechanism of carbon nanotube filled cis-1,4-polybutadiene via molecular dynamics simulation. RSC Advances, 2018, 8, 27786-27795.	3.6	3
120	Icariin-loaded electrospun PCL/gelatin nanofiber membrane as potential artificial periosteum. Colloids and Surfaces B: Biointerfaces, 2018, 170, 201-209.	5.0	61
121	Evaluation of poly(diaryloxyphosphazene) elastomer for heat shielding insulations and morphology of charred layers. High Performance Polymers, 2017, 29, 450-457.	1.8	20
122	Unique microstructure of an oil resistant nitrile butadiene rubber/polypropylene dynamically vulcanized thermoplastic elastomer. RSC Advances, 2017, 7, 5451-5458.	3.6	32
123	Molecular Dynamics Simulations Reveal Isoform Specific Contact Dynamics between the Plexin Rho GTPase Binding Domain (RBD) and Small Rho GTPases Rac1 and Rnd1. Journal of Physical Chemistry B, 2017, 121, 1485-1498.	2.6	24
124	Preparation and Performance of Silica/Epoxy Group-Functionalized Biobased Elastomer Nanocomposite. Industrial & Engineering Chemistry Research, 2017, 56, 881-889.	3.7	37
125	Bioderived Rubberâ€“Cellulose Nanocrystal Composites with Tunable Water-Responsive Adaptive Mechanical Behavior. ACS Applied Materials & Interfaces, 2017, 9, 6482-6487.	8.0	51
126	High-throughput synthesis of cross-linked poly(cyclotriphosphazene-co-bis(aminomethyl)ferrocene) microspheres and their performance as a superparamagnetic, electrochemical, fluorescent and adsorbent material. Chemical Engineering Journal, 2017, 315, 448-458.	12.7	40

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127	Nanodot-Loaded Clay Nanotubes as Green and Sustained Radical Scavengers for Elastomer. ACS Sustainable Chemistry and Engineering, 2017, 5, 1775-1783.	6.7	49
128	Different dynamics and pathway of disulfide bonds reduction of two human defensins, a molecular dynamics simulation study. Proteins: Structure, Function and Bioinformatics, 2017, 85, 665-681.	2.6	20
129	New insight on the interfacial interaction between multiwalled carbon nanotubes and elastomers. Composites Science and Technology, 2017, 142, 214-220.	7.8	33
130	Structure and Properties of Silicone Rubber/Styreneâ€“Butadiene Rubber Blends with in Situ Interface Coupling by Thiol-ene Click Reaction. Industrial & Engineering Chemistry Research, 2017, 56, 1471-1477.	3.7	43
131	Enhanced interfacial interaction and excellent performance of silica/epoxy group-functionalized styrene-butadiene rubber (SBR) nanocomposites without any coupling agent. Composites Part B: Engineering, 2017, 114, 356-364.	12.0	88
132	Generic Mechanochemical Grafting Strategy toward Organophilic Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 7666-7674.	8.0	11
133	Catalytic reduction of 4-nitrophenol and photo inhibition of Pseudomonas aeruginosa using gold nanoparticles as photocatalyst. Journal of Photochemistry and Photobiology B: Biology, 2017, 170, 181-187.	3.8	23
134	Pendant Chain Effect on the Synthesis, Characterization, and Structureâ€“Property Relations of Poly(di-n-alkyl itaconate-co-isoprene) Biobased Elastomers. ACS Sustainable Chemistry and Engineering, 2017, 5, 5214-5223.	6.7	25
135	Molecular Dynamics Simulation Insight Into Two-Component Solubility Parameters of Graphene and Thermodynamic Compatibility of Graphene and Styrene Butadiene Rubber. Journal of Physical Chemistry C, 2017, 121, 10163-10173.	3.1	51
136	Structure and performance of hydrogenated natural rubber prepared by the latex method. Plastics, Rubber and Composites, 2017, 46, 245-250.	2.0	7
137	Morphology development of POE/PP thermoplastic vulcanizates (TPVs) during dynamic vulcanization. European Polymer Journal, 2017, 93, 590-601.	5.4	30
138	Designing polymer nanocomposites with a semi-interpenetrating or interpenetrating network structure: toward enhanced mechanical properties. Physical Chemistry Chemical Physics, 2017, 19, 15808-15820.	2.8	27
139	Comprehensive study on temperature-induced crystallisation and strain-induced crystallisation behaviours of natural rubber/isoprene rubber blends. Plastics, Rubber and Composites, 2017, 46, 290-300.	2.0	5
140	Effect of chain structure on the glass transition temperature and viscoelastic property of cisâ€‘1,4â€polybutadiene via molecular simulation. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1005-1016.	2.1	11
141	Enhanced fluorescence properties of terbium complex/poly-<scp>l</scp>-lactic acid superfine fibers sensitized by the LSPR effect of silver nanoparticles. RSC Advances, 2017, 7, 19808-19814.	3.6	3
142	Largely improved electromechanical properties of thermoplastic polyurethane dielectric elastomers by the synergistic effect of polyethylene glycol and partially reduced graphene oxide. Composites Science and Technology, 2017, 142, 311-320.	7.8	65
143	Covalent approach for in situ enhancement of interaction between pristine graphene and styreneâ€butadieneâ€pâ€(2,2,2â€triphenylethyl)styrene rubber. Journal of Applied Polymer Science, 2017, 134, 44923.	2.6	4
144	Evolution of chemical structure of polydichlorophosphazene in various solvents and ways to prolong its stability. Journal of Molecular Liquids, 2017, 225, 536-543.	4.9	14

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145	Highly efficient mussel-like inspired modification of aramid fibers by UV-accelerated catechol/polyamine deposition followed chemical grafting for high-performance polymer composites. Chemical Engineering Journal, 2017, 314, 583-593.	12.7	87
146	Effects of dispersion and orientation of nanorods on electrical networks of block copolymer nanocomposites. Computational Materials Science, 2017, 129, 107-114.	3.0	4
147	Compressive stress relaxation modeling of butadiene rubber under thermoâ€oxidative aging. Journal of Applied Polymer Science, 2017, 134, .	2.6	21
148	Diffusive dynamics of polymer chains in an array of nanoposts. Physical Chemistry Chemical Physics, 2017, 19, 380-387.	2.8	7
149	Malleable, Mechanically Strong, and Adaptive Elastomers Enabled by Interfacial Exchangeable Bonds. Macromolecules, 2017, 50, 7584-7592.	4.8	160
150	Progress in bio-inspired sacrificial bonds in artificial polymeric materials. Chemical Society Reviews, 2017, 46, 6301-6329.	38.1	157
151	Theoretical and Experimental Insights into the Phase Transition of Rubber/Plastic Blends during Dynamic Vulcanization. Industrial & Engineering Chemistry Research, 2017, 56, 13911-13918.	3.7	5
152	Simulational insights into the mechanical response of prestretched double network filled elastomers. Soft Matter, 2017, 13, 8597-8608.	2.7	11
153	Improved mechanical and fatigue properties of graphene oxide/silica/SBR composites. RSC Advances, 2017, 7, 40813-40818.	3.6	30
154	Tailoring silicaâ€“rubber interactions by interface modifiers with multiple functional groups. RSC Advances, 2017, 7, 38915-38922.	3.6	12
155	Influences of different dimensional carbon-based nanofillers on fracture and fatigue resistance of natural rubber composites. Polymer Testing, 2017, 63, 281-288.	4.8	32
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