

# Liqun Zhang

## List of Publications by Year in descending order

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489  
papers

25,145  
citations

5896

81  
h-index

13771

129  
g-index

496  
all docs

496  
docs citations

496  
times ranked

21821  
citing authors

#	ARTICLE	IF	CITATIONS
1	Halloysite Clay Nanotubes for Loading and Sustained Release of Functional Compounds. <i>Advanced Materials</i> , 2016, 28, 1227-1250.	21.0	779
2	Wearable, Healable, and Adhesive Epidermal Sensors Assembled from Mussel-Inspired Conductive Hybrid Hydrogel Framework. <i>Advanced Functional Materials</i> , 2017, 27, 1703852.	14.9	617
3	Respiratory Syncytial Virus Infection of Human Airway Epithelial Cells Is Polarized, Specific to Ciliated Cells, and without Obvious Cytopathology. <i>Journal of Virology</i> , 2002, 76, 5654-5666.	3.4	489
4	Silica Modified by Alcohol Polyoxyethylene Ether and Silane Coupling Agent Together to Achieve High Performance Rubber Composites Using the Latex Compounding Method. <i>Polymers</i> , 2018, 10, 1.	4.5	426
5	Highly Sensitive, Wearable, Durable Strain Sensors and Stretchable Conductors Using Graphene/Silicon Rubber Composites. <i>Advanced Functional Materials</i> , 2016, 26, 7614-7625.	14.9	339
6	The effect of citric acid on the structural properties and cytotoxicity of the polyvinyl alcohol/starch films when molding at high temperature. <i>Carbohydrate Polymers</i> , 2008, 74, 763-770.	10.2	314
7	Normal and Cystic Fibrosis Airway Surface Liquid Homeostasis. <i>Journal of Biological Chemistry</i> , 2005, 280, 35751-35759.	3.4	298
8	Nanoparticle Dispersion and Aggregation in Polymer Nanocomposites: Insights from Molecular Dynamics Simulation. <i>Langmuir</i> , 2011, 27, 7926-7933.	3.5	295
9	Characterization of citric acid/glycerol co-plasticized thermoplastic starch prepared by melt blending. <i>Carbohydrate Polymers</i> , 2007, 69, 748-755.	10.2	294
10	Morphology and mechanical properties of clay/styrene-butadiene rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1873-1878.	2.6	286
11	Infection of Ciliated Cells by Human Parainfluenza Virus Type 3 in an In Vitro Model of Human Airway Epithelium. <i>Journal of Virology</i> , 2005, 79, 1113-1124.	3.4	259
12	Large-scale synthesis of N-doped carbon quantum dots and their phosphorescence properties in a polyurethane matrix. <i>Nanoscale</i> , 2016, 8, 4742-4747.	5.6	252
13	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2012, 22, 2735-2743.	14.9	244
14	Electrically and thermally conductive elastomer/graphene nanocomposites by solution mixing. <i>Polymer</i> , 2014, 55, 201-210.	3.8	239
15	Bioinspired Engineering of Sacrificial Metal-Ligand Bonds into Elastomers with Supramechanical Performance and Adaptive Recovery. <i>Macromolecules</i> , 2016, 49, 1781-1789.	4.8	238
16	Preparation and characterization of rubber-clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1879-1883.	2.6	223
17	Analyzing Properties of Model Asphalts Using Molecular Simulation. <i>Energy &amp; Fuels</i> , 2007, 21, 1712-1716.	5.1	207
18	Novel percolation phenomena and mechanism of strengthening elastomers by nanofillers. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3014.	2.8	207

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19	Dramatic influence of compatibility on crystallization behavior and morphology of polypropylene in NBR/PP thermoplastic vulcanizates. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	204
20	Molecular Dynamics Study on Nanoparticle Diffusion in Polymer Melts: A Test of the Stokes-Einstein Law. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6653-6661.	3.1	195
21	Grafting of Polyester onto Graphene for Electrically and Thermally Conductive Composites. <i>Macromolecules</i> , 2012, 45, 3444-3451.	4.8	188
22	Synthesis, preparation, in vitro degradation, and application of novel degradable bioelastomers A review. <i>Progress in Polymer Science</i> , 2012, 37, 715-765.	24.7	181
23	Using a green method to develop graphene oxide/elastomers nanocomposites with combination of high barrier and mechanical performance. <i>Composites Science and Technology</i> , 2014, 92, 1-8.	7.8	179
24	Surface Silverized <i>Meta</i> -Aramid Fibers Prepared by Bio-inspired Poly(dopamine) Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 2062-2069.	8.0	172
25	Biobased Poly(propylene sebacate) as Shape Memory Polymer with Tunable Switching Temperature for Potential Biomedical Applications. <i>Biomacromolecules</i> , 2011, 12, 1312-1321.	5.4	170
26	Overview of polymer nanocomposites: Computer simulation understanding of physical properties. <i>Polymer</i> , 2017, 133, 272-287.	3.8	170
27	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.	6.7	167
28	Surface modification of silica by two-step method and properties of solution styrene butadiene rubber (SSBR) nanocomposites filled with modified silica. <i>Composites Science and Technology</i> , 2013, 88, 69-75.	7.8	164
29	Relaxation time, diffusion, and viscosity analysis of model asphalt systems using molecular simulation. <i>Journal of Chemical Physics</i> , 2007, 127, 194502.	3.0	161
30	Malleable, Mechanically Strong, and Adaptive Elastomers Enabled by Interfacial Exchangeable Bonds. <i>Macromolecules</i> , 2017, 50, 7584-7592.	4.8	160
31	Preparation, microstructure, and microstructure-properties relationship of thermoplastic vulcanizates (TPVs): A review. <i>Progress in Polymer Science</i> , 2018, 79, 61-97.	24.7	158
32	Progress in bio-inspired sacrificial bonds in artificial polymeric materials. <i>Chemical Society Reviews</i> , 2017, 46, 6301-6329.	38.1	157
33	A Flexible Wearable Pressure Sensor with Bioinspired Microcrack and Interlocking for Full-Range Human-Machine Interfacing. <i>Small</i> , 2018, 14, e1803018.	10.0	156
34	On the global existence of solutions to the Prandtl's system. <i>Advances in Mathematics</i> , 2004, 181, 88-133.	1.1	154
35	Antibacterial surfaces through dopamine functionalization and silver nanoparticle immobilization. <i>Materials Chemistry and Physics</i> , 2010, 121, 534-540.	4.0	150
36	Preparation and characterization of dopamine-decorated hydrophilic carbon black. <i>Applied Surface Science</i> , 2012, 258, 5387-5393.	6.1	145

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37	Photothermal-Induced Self-Healable and Reconfigurable Shape Memory Bio-Based Elastomer with Recyclable Ability. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1469-1479.	8.0	142
38	High Performance Graphene Oxide Based Rubber Composites. <i>Scientific Reports</i> , 2013, 3, 2508.	3.3	134
39	A combined experiment and molecular dynamics simulation study of hydrogen bonds and free volume in nitrile-butadiene rubber/hindered phenol damping mixtures. <i>Journal of Materials Chemistry</i> , 2012, 22, 12339.	6.7	133
40	Crystallization and morphology study of polyhedral oligomeric silsesquioxane (POSS)/polysiloxane elastomer composites prepared by melt blending. <i>Polymer</i> , 2007, 48, 3201-3212.	3.8	131
41	Study on mechanical properties of elastomers reinforced by zinc dimethacrylate. <i>European Polymer Journal</i> , 2005, 41, 589-598.	5.4	130
42	Molecular Orientation in Model Asphalts Using Molecular Simulation. <i>Energy &amp; Fuels</i> , 2007, 21, 1102-1111.	5.1	129
43	Transport performance in novel elastomer nanocomposites: Mechanism, design and control. <i>Progress in Polymer Science</i> , 2016, 61, 29-66.	24.7	128
44	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.	10.3	128
45	A novel approach to electrically and thermally conductive elastomers using graphene. <i>Polymer</i> , 2013, 54, 3663-3670.	3.8	124
46	Melt compounding with graphene to develop functional, high-performance elastomers. <i>Nanotechnology</i> , 2013, 24, 165601.	2.6	124
47	Molecular Engineering of a Two-Step Transcription Amplification (TSTA) System for Transgene Delivery in Prostate Cancer. <i>Molecular Therapy</i> , 2002, 5, 223-232.	8.2	123
48	Synthesis and Characterization of Novel Soybean-Oil-Based Elastomers with Favorable Processability and Tunable Properties. <i>Macromolecules</i> , 2012, 45, 9010-9019.	4.8	123
49	Recent Advances in Synthetic Bioelastomers. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4223-4256.	4.1	118
50	Effect of particle size on the properties of Mg(OH) <sub>2</sub> -filled rubber composites. <i>Journal of Applied Polymer Science</i> , 2004, 94, 2341-2346.	2.6	114
51	Preparation and properties of natural rubber/rectorite nanocomposites. <i>European Polymer Journal</i> , 2005, 41, 2776-2783.	5.4	112
52	One-Piece Triboelectric Nanosensor for Self-Triggered Alarm System and Latent Fingerprint Detection. <i>ACS Nano</i> , 2016, 10, 10366-10372.	14.6	108
53	Multifunctional Vitrimer-Like Polydimethylsiloxane (PDMS): Recyclable, Self-Healable, and Water-Driven Malleable Covalent Networks Based on Dynamic Imine Bond. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 1212-1221.	3.7	108
54	Flexible Breathable Nanomesh Electronic Devices for On-Demand Therapy. <i>Advanced Functional Materials</i> , 2019, 29, 1902127.	14.9	108

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55	Synthesis of amphiphilic carbon quantum dots with phosphorescence properties and their multifunctional applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10146-10153.	5.5	107
56	Proton conductivity improvement of sulfonated poly(ether ether ketone) nanocomposite membranes with sulfonated halloysite nanotubes prepared via dopamine-initiated atom transfer radical polymerization. <i>Journal of Membrane Science</i> , 2016, 504, 206-219.	8.2	107
57	Tough Bio-Based Elastomer Nanocomposites with High Performance for Engineering Applications. <i>Advanced Engineering Materials</i> , 2012, 14, 112-118.	3.5	106
58	Hydroxide ions transportation in polynorbornene anion exchange membrane. <i>Polymer</i> , 2018, 138, 363-368.	3.8	105
59	Long-acting and broad-spectrum antimicrobial electrospun poly ( $\epsilon$ -caprolactone)/gelatin micro/nanofibers for wound dressing. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 275-284.	9.4	103
60	Significantly improved rubber-silica interface via subtly controlling surface chemistry of silica. <i>Composites Science and Technology</i> , 2018, 156, 70-77.	7.8	99
61	Structure and properties of strain-induced crystallization rubber-clay nanocomposites by co-coagulating the rubber latex and clay aqueous suspension. <i>Journal of Applied Polymer Science</i> , 2005, 96, 318-323.	2.6	98
62	Enhanced dielectric properties and actuated strain of elastomer composites with dopamine-induced surface functionalization. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12276.	10.3	98
63	Macroscopic Supramolecular Assembly of Rigid Building Blocks Through a Flexible Spacing Coating. <i>Advanced Materials</i> , 2014, 26, 3009-3013.	21.0	98
64	Structure and properties of fibrillar silicate/SBR composites by direct blend process. <i>Journal of Materials Science</i> , 2003, 38, 4917-4924.	3.7	96
65	Preparation and properties of isobutylene- <i>i</i> soprene rubber (IIR)/clay nanocomposites. <i>Polymer Testing</i> , 2005, 24, 12-17.	4.8	96
66	Polymer-nanoparticle interfacial behavior revisited: A molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13058.	2.8	96
67	Fabrication of silver-coated silica microspheres through mussel-inspired surface functionalization. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 567-574.	9.4	96
68	Molecular dynamics simulation for insight into microscopic mechanism of polymer reinforcement. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 518-529.	2.8	94
69	Swelling process of rubber in asphalt and its effect on the structure and properties of rubber and asphalt. <i>Construction and Building Materials</i> , 2012, 29, 316-322.	7.2	91
70	Ageing of soft thermoplastic starch with high glycerol content. <i>Journal of Applied Polymer Science</i> , 2007, 103, 574-586.	2.6	90
71	Fabrication and evaluation of electrospun PCL-gelatin micro-/nanofiber membranes for anti-infective GTR implants. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6867-6877.	5.8	90
72	Effect of particle size on flame retardancy of Mg(OH) <sub>2</sub> -filled ethylene vinyl acetate copolymer composites. <i>Journal of Applied Polymer Science</i> , 2006, 100, 4461-4469.	2.6	89

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73	Chemical and physical interaction between silane coupling agent with long arms and silica and its effect on silica/natural rubber composites. <i>Polymer</i> , 2018, 135, 200-210.	3.8	89
74	General route to graphene with liquid-like behavior by non-covalent modification. <i>Soft Matter</i> , 2012, 8, 9214.	2.7	88
75	Enhanced interfacial interaction and excellent performance of silica/epoxy group-functionalized styrene-butadiene rubber (SBR) nanocomposites without any coupling agent. <i>Composites Part B: Engineering</i> , 2017, 114, 356-364.	12.0	88
76	Study on flammability of montmorillonite/styrene-butadiene rubber (SBR) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2005, 97, 844-849.	2.6	87
77	Enabling Design of Advanced Elastomer with Bioinspired Metal–Oxygen Coordination. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32520-32527.	8.0	87
78	Highly efficient mussel-like inspired modification of aramid fibers by UV-accelerated catechol/polyamine deposition followed chemical grafting for high-performance polymer composites. <i>Chemical Engineering Journal</i> , 2017, 314, 583-593.	12.7	87
79	Rational design of covalent interfaces for graphene/elastomer nanocomposites. <i>Composites Science and Technology</i> , 2016, 132, 68-75.	7.8	86
80	Employing a novel bioelastomer to toughen polylactide. <i>Polymer</i> , 2013, 54, 2450-2458.	3.8	85
81	The Interesting Influence of Nanosprings on the Viscoelasticity of Elastomeric Polymer Materials: Simulation and Experiment. <i>Advanced Functional Materials</i> , 2013, 23, 1156-1163.	14.9	85
82	Highly Conductive One-Dimensional Nanofibers: Silvered Electrospun Silica Nanofibers via Poly(dopamine) Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5105-5112.	8.0	85
83	Vapor grown carbon nanofiber reinforced bio-based polyester for electroactive shape memory performance. <i>Composites Science and Technology</i> , 2013, 75, 15-21.	7.8	84
84	Mechanically Robust and Recyclable EPDM Rubber Composites by a Green Cross-Linking Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11712-11720.	6.7	84
85	Mussel Inspired Modification for Aluminum Oxide/Silicone Elastomer Composites with Largely Improved Thermal Conductivity and Low Dielectric Constant. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 3255-3262.	3.7	83
86	Preparation of nano-zinc oxide/EPDM composites with both good thermal conductivity and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2011, 119, 1144-1155.	2.6	82
87	Design and Preparation of a Novel Cross-Linkable, High Molecular Weight, and Bio-Based Elastomer by Emulsion Polymerization. <i>Macromolecules</i> , 2012, 45, 6830-6839.	4.8	81
88	The morphology of zinc dimethacrylate reinforced elastomers investigated by SEM and TEM. <i>European Polymer Journal</i> , 2005, 41, 577-588.	5.4	79
89	New understanding of microstructure formation of the rubber phase in thermoplastic vulcanizates (TPV). <i>Soft Matter</i> , 2014, 10, 1816.	2.7	78
90	High performance dielectric composites by latex compounding of graphene oxide-encapsulated carbon nanosphere hybrids with XNBR. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11144-11154.	10.3	78

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91	A Robust, Self-Healable, and Shape Memory Supramolecular Hydrogel by Multiple Hydrogen Bonding Interactions. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800138.	3.9	78
92	The use of rhodamine B-decorated graphene as a reinforcement in polyvinyl alcohol composites. <i>Polymer</i> , 2012, 53, 673-680.	3.8	76
93	The surface modification of nanosilica, preparation of nanosilica/acrylic core-shell composite latex, and its application in toughening PVC matrix. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2671-2680.	2.6	75
94	Constructing a Multiple Covalent Interface and Isolating a Dispersed Structure in Silica/Rubber Nanocomposites with Excellent Dynamic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19922-19931.	8.0	74
95	Preparation and characterization of polystyrene/Ag core-shell microspheres – A bio-inspired poly(dopamine) approach. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 241-249.	9.4	73
96	A facile method for preparing highly conductive and reflective surface-silvered polyimide films. <i>Applied Surface Science</i> , 2009, 255, 8207-8212.	6.1	72
97	Interfacial polarization and dielectric properties of aligned carbon nanotubes/polymer composites: The role of molecular polarity. <i>Composites Science and Technology</i> , 2018, 154, 145-153.	7.8	72
98	A new strategy to improve the gas barrier property of isobutylene-isoprene rubber/clay nanocomposites. <i>Polymer Testing</i> , 2008, 27, 270-276.	4.8	71
99	Effect of expanded graphite (EG) dispersion on the mechanical and tribological properties of nitrile rubber/EG composites. <i>Wear</i> , 2012, 276-277, 85-93.	3.1	71
100	Mechanical, Dielectric, and Actuated Strain of Silicone Elastomer Filled with Various Types of $\text{TiO}_2$ . <i>Soft Materials</i> , 2013, 11, 363-370.	1.7	71
101	Structure and performance of reclaimed rubber obtained by different methods. <i>Journal of Applied Polymer Science</i> , 2013, 129, 999-1007.	2.6	71
102	Largely improved actuation strain at low electric field of dielectric elastomer by combining disrupting hydrogen bonds with ionic conductivity. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8388-8397.	5.5	71
103	Hierarchical electrospun $\text{SiO}_2$ nanofibers containing $\text{SiO}_2$ nanoparticles with controllable surface-roughness and/or porosity. <i>Materials Letters</i> , 2010, 64, 1517-1520.	2.6	70
104	Molecular dynamics simulations of the structural, mechanical and visco-elastic properties of polymer nanocomposites filled with grafted nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7196-7207.	2.8	70
105	Preparation and performance of silica/SBR masterbatches with high silica loading by latex compounding method. <i>Composites Part B: Engineering</i> , 2016, 85, 130-139.	12.0	70
106	Preparation of PET/Ag hybrid fibers via a biomimetic surface functionalization method. <i>Electrochimica Acta</i> , 2012, 79, 37-45.	5.2	69
107	Improved electromechanical properties of silicone dielectric elastomer composites by tuning molecular flexibility. <i>Composites Science and Technology</i> , 2018, 155, 160-168.	7.8	68
108	Quantitatively identify and understand the interphase of $\text{SiO}_2$ /rubber nanocomposites by using nanomechanical mapping technique of AFM. <i>Composites Science and Technology</i> , 2019, 170, 1-6.	7.8	66



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109	Study on preparation and properties of carbon nanotubes/rubber composites. Journal of Materials Science, 2006, 41, 2541-2544.	3.7	65
110	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
111	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
112	Modification of starch for high performance elastomer. Polymer, 2006, 47, 3896-3903.	3.8	64
113	Enhancing Crystallinity and Orientation by Hot-Stretching to Improve the Mechanical Properties of Electrospun Partially Aligned Polyacrylonitrile (PAN) Nanocomposites. Materials, 2011, 4, 621-632.	2.9	64
114	Lead magnesium niobate-filled silicone dielectric elastomer with large actuated strain. Journal of Applied Polymer Science, 2012, 125, 2196-2201.	2.6	64
115	High performance bio-based elastomers: energy efficient and sustainable materials for tires. Journal of Materials Chemistry A, 2016, 4, 13058-13062.	10.3	64
116	Stearic acid surface modifying Mg(OH) <sub>2</sub> : Mechanism and its effect on properties of ethylene vinyl acetate/Mg(OH) <sub>2</sub> composites. Journal of Applied Polymer Science, 2008, 107, 3325-3331.	2.6	63
117	Time-Temperature and Time-Concentration Superposition of Nanofilled Elastomers: A Molecular Dynamics Study. Macromolecules, 2009, 42, 2831-2842.	4.8	63
118	Incorporation of graphene into polyester/carbon nanofibers composites for better multi-stimuli responsive shape memory performances. Carbon, 2013, 64, 487-498.	10.3	63
119	Dramatically improved dielectric properties of polymer composites by controlling the alignment of carbon nanotubes in matrix. RSC Advances, 2014, 4, 4543-4551.	3.6	63
120	Preparation, fracture, and fatigue of exfoliated graphene oxide/natural rubber composites. RSC Advances, 2015, 5, 17140-17148.	3.6	63
121	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
122	Improved thermal conductivity and electromechanical properties of natural rubber by constructing Al <sub>2</sub> O <sub>3</sub> -PDA-Ag hybrid nanoparticles. Composites Science and Technology, 2019, 180, 86-93.	7.8	63
123	Noninvasive Imaging of Enhanced Prostate-Specific Gene Expression Using a Two-Step Transcriptional Amplification-Based Lentivirus Vector. Molecular Therapy, 2004, 10, 545-552.	8.2	62
124	Infrared study on in situ polymerization of zinc dimethacrylate in poly( $\epsilon$ -octylene-co-ethylene) elastomer. Polymer International, 2004, 53, 802-808.	3.1	61
125	THE EFFECT OF RESPIRATORY SYNCYTIAL VIRUS ON CHEMOKINE RELEASE BY DIFFERENTIATED AIRWAY EPITHELIUM. Experimental Lung Research, 2004, 30, 43-57.	1.2	61
126	Complete devulcanization of sulfur-cured butyl rubber by using supercritical carbon dioxide. Journal of Applied Polymer Science, 2013, 127, 2397-2406.	2.6	61



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127	Icariin-loaded electrospun PCL/gelatin nanofiber membrane as potential artificial periosteum. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 201-209.	5.0	61
128	Novel nitrile-butadiene rubber composites with enhanced thermal conductivity and high dielectric constant. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105447.	7.6	61
129	Static, rheological and mechanical properties of polymer nanocomposites studied by computer modeling and simulation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11365.	2.8	60
130	Synthesis and characterization of biobased isosorbide-containing copolyesters as shape memory polymers for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7877-7886.	5.8	60
131	Preparation, morphology and superior performances of biobased thermoplastic elastomer by in situ dynamical vulcanization for 3D-printed materials. <i>Polymer</i> , 2017, 108, 11-20.	3.8	60
132	Enhanced thermo-oxidative aging resistance of EPDM at high temperature by using synergistic antioxidants. <i>Polymer Degradation and Stability</i> , 2014, 102, 1-8.	5.8	59
133	From nano to giant? Designing carbon nanotubes for rubber reinforcement and their applications for high performance tires. <i>Composites Science and Technology</i> , 2016, 137, 94-101.	7.8	58
134	Concurrently improved dispersion and interfacial interaction in rubber/nanosilica composites via efficient hydrosilane functionalization. <i>Composites Science and Technology</i> , 2019, 169, 217-223.	7.8	58
135	Toughening Elastomers Using a Mussel-Inspired Multiphase Design. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23485-23489.	8.0	57
136	NMR Structure of a Heterodimeric SAM:SAM Complex: Characterization and Manipulation of EphA2 Binding Reveal New Cellular Functions of SHIP2. <i>Structure</i> , 2012, 20, 41-55.	3.3	56
137	Study on the structure and properties of conductive silicone rubber filled with nickel-coated graphite. <i>Journal of Applied Polymer Science</i> , 2010, 115, 2710-2717.	2.6	55
138	Preparation, structure, and properties of a novel rectorite/styrene-butadiene copolymer nanocomposite. <i>Journal of Applied Polymer Science</i> , 2005, 96, 324-328.	2.6	54
139	Preparation, properties and cytotoxicity evaluation of a biodegradable polyester elastomer composite. <i>Polymer Degradation and Stability</i> , 2009, 94, 1427-1435.	5.8	54
140	Revisiting the Dispersion Mechanism of Grafted Nanoparticles in Polymer Matrix: A Detailed Molecular Dynamics Simulation. <i>Langmuir</i> , 2011, 27, 15213-15222.	3.5	54
141	Numerical simulation and experimental verification of heat build-up for rubber compounds. <i>Polymer</i> , 2016, 101, 199-207.	3.8	54
142	Coupled Nucleotide and Mucin Hypersecretion from Goblet-Cell Metaplastic Human Airway Epithelium. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 45, 253-260.	2.9	53
143	Antimicrobial gelatin-based elastomer nanocomposite membrane loaded with ciprofloxacin and polymyxin B sulfate in halloysite nanotubes for wound dressing. <i>Materials Science and Engineering C</i> , 2018, 87, 128-138.	7.3	53
144	Optimization of adenoviral vectors to direct highly amplified prostate-specific expression for imaging and gene therapy. <i>Molecular Therapy</i> , 2003, 8, 726-737.	8.2	52

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145	Surface modification of fibrillar silicate and its reinforcing mechanism on FS/rubber composites. Composites Science and Technology, 2005, 65, 1129-1138.	7.8	52
146	New polyester dielectric elastomer with large actuated strain at low electric field. Materials Letters, 2012, 76, 229-232.	2.6	52
147	Triboelectric Nanogenerator Boosts Smart Green Tires. Advanced Functional Materials, 2019, 29, 1806331.	14.9	52
148	Luminescence Properties of Eu(III) Complex/Polyvinylpyrrolidone Electrospun Composite Nanofibers. Journal of Physical Chemistry C, 2010, 114, 3898-3903.	3.1	51
149	Supramolecular ionic liquid based on graphene oxide. Physical Chemistry Chemical Physics, 2012, 14, 9838.	2.8	51
150	Bioderived Rubberâ€“Cellulose Nanocrystal Composites with Tunable Water-Responsive Adaptive Mechanical Behavior. ACS Applied Materials & Interfaces, 2017, 9, 6482-6487.	8.0	51
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