

Liqun Zhang

List of Publications by Year in descending order

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67
papers

2,644
citations

279701

23
h-index

189801

50
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68
all docs

68
docs citations

68
times ranked

3672
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Molecular Mechanism for Understanding the Actuated Strain of Dielectric Elastomers and Their Impacts. <i>Macromolecular Rapid Communications</i> , 2023, 44, .	2.0	5
2	Performance enhancement of bio-based rubber composites using epoxidized natural rubber for silica without carbon emissions and volatile organic compounds. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	6
3	UV Reconfigurable Shape Memory Polyurethane with a High Recovery Ratio under Large Deformation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2144-2153.	1.8	15
4	Surface Coating of Aramid Fiber by a Graphene/Aramid Nanofiber Hybrid Material to Enhance Interfacial Adhesion with Rubber Matrix. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2472-2480.	1.8	25
5	Thermoplastic Polyurethane Dielectric Elastomers with High Actuated Strain and Good Mechanical Strength by Introducing Ester Group Grafted Polymethylvinylsiloxane. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4883-4891.	1.8	19
6	Unexpected Improvement of Both Mechanical Strength and Elasticity of EPDM/PP Thermoplastic Vulcanizates by Introducing β -Nucleating Agents. <i>Macromolecules</i> , 2021, 54, 2835-2843.	2.2	14
7	New Stratagem for Designing High-Performance Thermoplastic Polyurethane by Using a New Chain Extender. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000439.	1.1	8
8	Self-Healable Silicone Elastomer Based on the Synergistic Effect of the Coordination and Ionic Bonds. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2667-2677.	2.0	21
9	Long noncoding RNA HAS2-AS1 promotes tumor progression in glioblastoma via functioning as a competing endogenous RNA. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 661-671.	1.2	24
10	Mussel-Inspired Highly Stretchable, Tough Nanocomposite Hydrogel with Self-Healable and Near-Infrared Actuated Performance. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 166-174.	1.8	18
11	Effect of the shear field on the conductive percolated network formation in a nanoparticle filled polymer nanocomposites. <i>Soft Materials</i> , 2020, 18, 128-139.	0.8	2
12	A supramolecular silicone dielectric elastomer with a high dielectric constant and fast and highly efficient self-healing under mild conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23330-23343.	5.2	43
13	Visualization and Quantification of the Microstructure Evolution of Isoprene Rubber during Uniaxial Stretching Using AFM Nanomechanical Mapping. <i>Macromolecules</i> , 2020, 53, 3082-3089.	2.2	24
14	In Situ Exfoliation of Graphite into Graphene Nanosheets in Elastomer Composites Based on Diels-Alder Reaction during Melt Blending. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13182-13189.	1.8	9
15	Molecular dynamics simulation of the electrical conductive network formation of polymer nanocomposites by utilizing diblock copolymer-mediated nanoparticles. <i>Soft Matter</i> , 2019, 15, 6331-6339.	1.2	5
16	Heat-Integrated Azeotropic Distillation and Extractive Distillation for the Separation of Heterogeneous Ternary Azeotropes of Diisopropyl Ether/Isopropyl Alcohol/Water. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20734-20745.	1.8	40
17	Simultaneously improved dielectric and mechanical properties of silicone elastomer by designing a dual crosslinking network. <i>Polymer Chemistry</i> , 2019, 10, 633-645.	1.9	51
18	Cavitation, crazing and bond scission in chemically cross-linked polymer nanocomposites. <i>Soft Matter</i> , 2019, 15, 9195-9204.	1.2	8

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19	Influence of interfacial compatibilizer, silane modification, and filler hybrid on the performance of NR/NBR blends. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47421.	1.3	3
20	A Robust, Self-Healable, and Shape Memory Supramolecular Hydrogel by Multiple Hydrogen Bonding Interactions. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800138.	2.0	78
21	Synergetic effect of graphite nanosheets and spherical alumina particles on thermal conductivity enhancement of silicone rubber composites. <i>Polymer Composites</i> , 2018, 39, E1364.	2.3	18
22	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.	2.0	426
23	Quantitation of isoprenoids for natural rubber biosynthesis in natural rubber latex by liquid chromatography with tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1558, 115-119.	1.8	12
24	Evaluation of poly(diaryloxyphosphazene) elastomer for heat shielding insulations and morphology of charred layers. <i>High Performance Polymers</i> , 2017, 29, 450-457.	0.8	20
25	Effect of chain structure on the glass transition temperature and viscoelastic property of cis-1,4-polybutadiene via molecular simulation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1005-1016.	2.4	11
26	Compressive stress relaxation modeling of butadiene rubber under thermo-oxidative aging. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	21
27	Effect of interfacial enhancing on morphology, mechanical, and rheological properties of polypropylene-ground tire rubber powder blends. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45354.	1.3	12
28	Study on the microstructure and properties of bromobutyl rubber (BIR)/polyamide-12 (PA-12) thermoplastic vulcanizates (TPV-s). <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	16
29	Molecular-level insight of hindered phenol AO-70/nitrile-butadiene rubber damping composites through a combination of a molecular dynamics simulation and experimental method. <i>RSC Advances</i> , 2016, 6, 85994-86005.	1.7	38
30	Stress-strain behavior of block-copolymers and their nanocomposites filled with uniform or Janus nanoparticles under shear: a molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27232-27244.	1.3	16
31	Tuning the structure and mechanical property of polymer nanocomposites by employing anisotropic nanoparticles as netpoints. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25090-25099.	1.3	5
32	Controlling the electrical conductive network formation of polymer nanocomposites via polymer functionalization. <i>Soft Matter</i> , 2016, 12, 9738-9748.	1.2	7
33	Solvent-free fabrication of proton-conducting membranes based on commercial elastomers. <i>Polymers for Advanced Technologies</i> , 2015, 26, 300-307.	1.6	11
34	Neonatal Streptococcus pneumoniae Infection May Aggravate Adulthood Allergic Airways Disease in Association with IL-17A. <i>PLoS ONE</i> , 2015, 10, e0123010.	1.1	21
35	Simultaneously improved actuated performance and mechanical strength of silicone elastomer by reduced graphene oxide encapsulated silicon dioxide. <i>International Journal of Smart and Nano Materials</i> , 2015, 6, 251-267.	2.0	20
36	Design and preparation of cross-linked methylstyrene acrylonitrile copolymer nanoparticles and their interfacial investigation with rubber. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	1

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37	Enhanced electromechanical performance of bio-based gelatin/glycerin dielectric elastomer by cellulose nanocrystals. Carbohydrate Polymers, 2015, 130, 262-267.	5.1	28
38	Effects of the loading levels of organically modified montmorillonite on the flame-retardant properties of asphalt. Journal of Applied Polymer Science, 2014, 131, .	1.3	12
39	Infant 7-valent pneumococcal conjugate vaccine immunization alters young adulthood CD4+T cell subsets in allergic airway disease mouse model. Vaccine, 2014, 32, 2079-2085.	1.7	8
40	Graphene encapsulated rubber latex composites with high dielectric constant, low dielectric loss and low percolation threshold. Journal of Colloid and Interface Science, 2014, 430, 249-256.	5.0	79
41	Effect of additives on the morphology evolution of EPDM/PP TPVs during dynamic vulcanization in a twin-screw extruder. Journal of Polymer Research, 2013, 20, 1.	1.2	23
42	HYDROGENATED BUTADIENE-ACRYLONITRILE-BUTYLACRYLATE RUBBER AND ITS PROPERTIES. Rubber Chemistry and Technology, 2013, 86, 165-174.	0.6	2
43	Nano-Starch Particles Morphology and Their Dispersion in Rubber. Integrated Ferroelectrics, 2012, 137, 149-155.	0.3	4
44	Improved polyvinylpyrrolidone (PVP)/graphite nanocomposites by solution compounding and spray drying. Polymers for Advanced Technologies, 2012, 23, 652-659.	1.6	35
45	Reduction of the filler network interaction in novel inner liner compound based on SBR/rectorite nanocomposite by glycerin. Polymer Composites, 2012, 33, 336-342.	2.3	9
46	Improved crack growth resistance and its molecular origin of natural rubber/carbon black by nanodispersed clay. Polymer Engineering and Science, 2012, 52, 1027-1036.	1.5	19
47	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. Advanced Functional Materials, 2012, 22, 2735-2743.	7.8	244
48	Conducting stability of nickel-coated graphite/methyl vinyl silicone rubber composites. Journal of Applied Polymer Science, 2012, 125, 3456-3462.	1.3	6
49	Selective hydrogenation of nitrile-butadiene rubber catalyzed by thermoregulated phase transfer phosphine rhodium complex. Journal of Applied Polymer Science, 2012, 123, 1040-1046.	1.3	14
50	Effect of the compatibility on the morphology and properties of acrylonitrile-butadiene rubber/polypropylene thermoplastic vulcanizates. Journal of Applied Polymer Science, 2012, 124, 1999-2006.	1.3	19
51	Dramatic influence of compatibility on crystallization behavior and morphology of polypropylene in NBR/PP thermoplastic vulcanizates. Journal of Polymer Research, 2012, 19, 1.	1.2	204
52	Structure and mechanical properties of nanodispersed fibrous silicate-reinforced ethylene-propylene-diene monomer nanocomposites. Journal of Applied Polymer Science, 2011, 120, 1926-1933.	1.3	5
53	Enhancing Crystallinity and Orientation by Hot-Stretching to Improve the Mechanical Properties of Electrospun Partially Aligned Polyacrylonitrile (PAN) Nanocomposites. Materials, 2011, 4, 621-632.	1.3	64
54	Study on the structure and properties of conductive silicone rubber filled with nickel-coated graphite. Journal of Applied Polymer Science, 2010, 115, 2710-2717.	1.3	55

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55	Surface initiated ATRP of acrylic acid on dopamine ϵ -functionalized AAO membranes. Journal of Applied Polymer Science, 2010, 117, 534-541.	1.3	21
56	Luminescence Properties of Eu(III) Complex/Polyvinylpyrrolidone Electrospun Composite Nanofibers. Journal of Physical Chemistry C, 2010, 114, 3898-3903.	1.5	51
57	Molecular Dynamics Study on Nanoparticle Diffusion in Polymer Melts: A Test of the Stokes-Einstein Law. Journal of Physical Chemistry C, 2008, 112, 6653-6661.	1.5	195
58	Piezoelectric and Dielectric Properties of Acrylonitrile Butadiene Rubber/Lead Magnesium-Niobate Piezoelectric Ceram. Polymer-Plastics Technology and Engineering, 2008, 47, 1273-1277.	1.9	2
59	Preparation and characterization of a thermoplastic poly(glycerol sebacate) elastomer by two-step method. Journal of Applied Polymer Science, 2007, 103, 1412-1419.	1.3	50
60	Study on preparation and properties of carbon nanotubes/rubber composites. Journal of Materials Science, 2006, 41, 2541-2544.	1.7	65
61	Effects of silicon additive as synergists of Mg(OH) ₂ on the flammability of ethylene vinyl acetate copolymer. Journal of Applied Polymer Science, 2006, 99, 3203-3209.	1.3	28
62	Effect of particle size on flame retardancy of Mg(OH) ₂ -filled ethylene vinyl acetate copolymer composites. Journal of Applied Polymer Science, 2006, 100, 4461-4469.	1.3	89
63	The morphology and property of ultra-fine full-vulcanized acrylonitrile butadiene rubber particles/EPDM blends. Journal of Applied Polymer Science, 2006, 100, 3673-3679.	1.3	13
64	Reinforcement of Elastomer by Starch. Macromolecular Materials and Engineering, 2006, 291, 629-637.	1.7	47
65	Preparation and characterization of a biodegradable polyester elastomer with thermal processing abilities. Journal of Applied Polymer Science, 2005, 98, 2033-2041.	1.3	38
66	The Anisotropy of Fibrillar Silicate/Rubber Nanocomposites. Macromolecular Materials and Engineering, 2005, 290, 681-687.	1.7	28
67	Effect of particle size on the properties of Mg(OH) ₂ -filled rubber composites. Journal of Applied Polymer Science, 2004, 94, 2341-2346.	1.3	114