

Li Jiangbo

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160
papers

3,978
citations

34
h-index

55
g-index

167
ext. papers

4,750
ext. citations

5.4
avg, IF

5.88
L-index

#	Paper	IF	Citations
160	One-step, size-controlled synthesis of gold nanoparticles at room temperature using plant tannin. <i>Green Chemistry</i> , 2010 , 12, 395-399	10	178
159	Polyphenol-grafted collagen fiber as reductant and stabilizer for one-step synthesis of size-controlled gold nanoparticles and their catalytic application to 4-nitrophenol reduction. <i>Green Chemistry</i> , 2011 , 13, 651	10	146
158	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 6516-6523	15.6	143
157	Vulcanization kinetics of graphene/natural rubber nanocomposites. <i>Polymer</i> , 2013 , 54, 3314-3323	3.9	140
156	Bioinspired Engineering of Two Different Types of Sacrificial Bonds into Chemically Cross-Linked cis-1,4-Polyisoprene toward a High-Performance Elastomer. <i>Macromolecules</i> , 2016 , 49, 8593-8604	5.5	106
155	Adsorptive recovery of Au ³⁺ from aqueous solutions using bayberry tannin-immobilized mesoporous silica. <i>Journal of Hazardous Materials</i> , 2010 , 183, 793-8	12.8	105
154	Ultrarobust, tough and highly stretchable self-healing materials based on cartilage-inspired noncovalent assembly nanostructure. <i>Nature Communications</i> , 2021 , 12, 1291	17.4	105
153	Cure kinetics and morphology of natural rubber reinforced by the in situ polymerization of zinc dimethacrylate. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 99-106	2.9	101
152	One-step room-temperature synthesis of Au@Pd core-shell nanoparticles with tunable structure using plant tannin as reductant and stabilizer. <i>Green Chemistry</i> , 2011 , 13, 950	10	91
151	Synthesis of highly active and reusable supported gold nanoparticles and their catalytic applications to 4-nitrophenol reduction. <i>Green Chemistry</i> , 2011 , 13, 2801	10	87
150	Adsorption removal of phosphate in industrial wastewater by using metal-loaded skin split waste. <i>Journal of Hazardous Materials</i> , 2009 , 166, 1261-5	12.8	80
149	One-Pot Facile Synthesis of Cerium-Doped TiO ₂ Mesoporous Nanofibers Using Collagen Fiber As the Biotemplate and Its Application in Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9739-9746	3.8	78
148	Toughening rubbers with a hybrid filler network of graphene and carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22385-22392	13	77
147	Super tough and strong self-healing elastomers based on polyampholytes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19066-19074	13	77
146	Hg(II) removal from aqueous solution by bayberry tannin-immobilized collagen fiber. <i>Journal of Hazardous Materials</i> , 2009 , 170, 1141-8	12.8	76
145	Enhanced mechanical properties of graphene/natural rubber nanocomposites at low content. <i>Polymer International</i> , 2014 , 63, 1674-1681	3.3	71
144	Graphene oxide induced crosslinking and reinforcement of elastomers. <i>Composites Science and Technology</i> , 2017 , 144, 223-229	8.6	66

143	Room-temperature autonomous self-healing glassy polymers with hyperbranched structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11299-11305	11.5	65
142	Graphene as a prominent antioxidant for diolefin elastomers. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5942-5948	13	64
141	Ferromagnetic hierarchical carbon nanofiber bundles derived from natural collagen fibers: truly lightweight and high-performance microwave absorption materials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10146-10153	7.1	63
140	Tannin-immobilized mesoporous silica bead (BT-SiO ₂) as an effective adsorbent of Cr(III) in aqueous solutions. <i>Journal of Hazardous Materials</i> , 2010 , 173, 33-9	12.8	58
139	Toughening diene elastomers by strong hydrogen bond interactions. <i>Polymer</i> , 2016 , 106, 21-28	3.9	57
138	Sound absorption characteristics of polymer microparticles. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 2675-2679	2.9	53
137	Strong and tough self-healing elastomers enabled by dual reversible networks formed by ionic interactions and dynamic covalent bonds. <i>Polymer</i> , 2018 , 157, 172-179	3.9	53
136	Vanadium Pentoxide-Based Cathode Materials for Lithium-Ion Batteries: Morphology Control, Carbon Hybridization, and Cation Doping. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 276-294	3.1	50
135	Synergistic reinforcement of nanoclay and carbon black in natural rubber. <i>Polymer International</i> , 2010 , 59, 1397-1402	3.3	48
134	Synthesis and thermal properties of modified room temperature vulcanized (RTV) silicone rubber using polyhedral oligomeric silsesquioxane (POSS) as a cross linking agent. <i>RSC Advances</i> , 2014 , 4, 41453-41460	3.7	40
133	Highly Stretchable and Self-Healing "Solid-Liquid" Elastomer with Strain-Rate Sensing Capability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19534-19540	9.5	39
132	New evidence disclosed for networking in natural rubber by dielectric relaxation spectroscopy. <i>Soft Matter</i> , 2015 , 11, 2290-9	3.6	37
131	Damping mechanism of chlorobutyl rubber and phenolic resin vulcanized blends. <i>Journal of Materials Science</i> , 2007 , 42, 7256-7262	4.3	36
130	Lightweight and high-performance electromagnetic radiation shielding composites based on a surface coating of Cu@Ag nanoflakes on a leather matrix. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 914-920	7.1	35
129	Effect of polyhedral oligomeric silsesquioxane (POSS) on crystallization behaviors of POSS/polydimethylsiloxane rubber nanocomposites. <i>RSC Advances</i> , 2014 , 4, 6275-6283	3.7	35
128	Hierarchically structured C@SnO ₂ @C nanofiber bundles with high stability and effective ambipolar diffusion kinetics for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18783-18791	13.3	34
127	Ultra-Tough, Strong, and Defect-Tolerant Elastomers with Self-Healing and Intelligent-Responsive Abilities. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29373-29381	9.5	34
126	Synthesis of polyborosiloxane and its reversible physical crosslinks. <i>RSC Advances</i> , 2014 , 4, 32894-32901	3.7	34

125	Soluble amphiphilic tannin-stabilized Pd(0) nanoparticles: a highly active and selective homogeneous catalyst used in a biphasic catalytic system. <i>Chemical Communications</i> , 2009 , 4687-9	5.8	34
124	Synthesis of nanosilica-based immobile antioxidant and its antioxidative efficiency in SBR composites. <i>Polymer Composites</i> , 2013 , 34, 1856-1862	3	33
123	New insights into reinforcement mechanism of nanoclay-filled isoprene rubber during uniaxial deformation by in situ synchrotron X-ray diffraction. <i>RSC Advances</i> , 2015 , 5, 25171-25182	3.7	29
122	Facile synthesis of mesoporous sulfated Ce/TiO ₂ nanofiber solid superacid with nanocrystalline frameworks by using collagen fibers as a biotemplate and its application in esterification. <i>RSC Advances</i> , 2014 , 4, 4010-4019	3.7	29
121	Accelerated thermal ageing studies of polydimethylsiloxane (PDMS) rubber. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	29
120	Self-recovery magnetic hydrogel with high strength and toughness using nanofibrillated cellulose as a dispersing agent and filler. <i>Carbohydrate Polymers</i> , 2018 , 196, 82-91	10.3	28
119	Super-Resolution Fluorescence Imaging of Spatial Organization of Proteins and Lipids in Natural Rubber. <i>Biomacromolecules</i> , 2017 , 18, 1705-1712	6.9	27
118	Thermal oxidative degradation of styrene-butadiene rubber (SBR) studied by 2D correlation analysis and kinetic analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 647-657	4.1	26
117	Confinement effect of polystyrene on the relaxation behavior of polyisobutylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 2165-2172	2.6	26
116	The proper glass transition temperature of amorphous polymers on dynamic mechanical spectra. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 447-453	4.1	25
115	A rheological study on non-rubber component networks in natural rubber. <i>RSC Advances</i> , 2015 , 5, 91742-91750	3.7	24
114	Mechanically robust and shape-memory hybrid aerogels for super-insulating applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15048-15055	13	23
113	Synthesis and Aqueous Solution Properties of a Novel NonIonic, Amphiphilic Comb-Type Polyacrylamide. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 1691-1704	1.4	23
112	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15836-15840	16.4	23
111	Effect of nanosilica-based immobile antioxidant on thermal oxidative degradation of SBR. <i>RSC Advances</i> , 2015 , 5, 62788-62796	3.7	22
110	Molecular dynamics in chlorinated butyl rubber containing organophilic montmorillonite nanoparticles. <i>Journal of Polymer Research</i> , 2011 , 18, 2213-2220	2.7	22
109	Enhanced power factor within graphene hybridized carbon aerogels. <i>RSC Advances</i> , 2015 , 5, 25650-25656	3.7	21
108	A facile method to fabricate hybrid hydrogels with mechanical toughness using a novel multifunctional cross-linker. <i>RSC Advances</i> , 2017 , 7, 35311-35319	3.7	21

107	Enhanced electrical conductivity and mechanical property of SBS/graphene nanocomposite. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	20
106	Improved resistance to crack growth of natural rubber by the inclusion of nanoclay. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 85-91	3.2	20
105	A facile approach to the fabrication of graphene-based nanocomposites by latex mixing and in situ reduction. <i>Colloid and Polymer Science</i> , 2013 , 291, 2279-2287	2.4	20
104	Detecting different modes of molecular motion in polyisobutylene and chlorinated butyl rubber by using dielectric probes. <i>Soft Matter</i> , 2011 , 7, 9224	3.6	20
103	Effect of diphenylsiloxane unit content on aggregation structure of poly(dimethylsiloxane-co-diphenylsiloxane). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 72-79	2.6	20
102	Influences of polyhedral oligomeric silsesquioxanes (POSSs) containing different functional groups on crystallization and melting behaviors of POSS/polydimethylsiloxane rubber composites. <i>RSC Advances</i> , 2014 , 4, 41364-41370	3.7	19
101	Mechanically robust, ultrastretchable and thermal conducting composite hydrogel and its biomedical applications. <i>Chemical Engineering Journal</i> , 2019 , 360, 231-242	14.7	18
100	Tough, ultrastretchable and tear-resistant hydrogels enabled by linear macro-cross-linker. <i>Polymer Chemistry</i> , 2019 , 10, 3503-3513	4.9	17
99	The synthesis of graphene-based antioxidants to promote anti-thermal properties of styrene-butadiene rubber. <i>RSC Advances</i> , 2017 , 7, 53596-53603	3.7	17
98	Damping characteristics of chlorobutyl rubber/poly(ethyl acrylate)/piezoelectric ceramic/carbon black composites. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3670-3676	2.9	17
97	Transparent, robust, water-resistant and high-barrier self-healing elastomers reinforced with dynamic supramolecular nanosheets with switchable interfacial connections. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9013-9020	13	17
96	Natural collagen fiber-enabled facile synthesis of carbon@Fe ₃ O ₄ core-shell nanofiber bundles and their application as ultrahigh-rate anode materials for Li-ion batteries. <i>RSC Advances</i> , 2016 , 6, 10824-10830	3.7	16
95	Solution Grafting of Maleic Anhydride on Low-Density Polyethylene: Effect on Crystallization Behavior. <i>Journal of Macromolecular Science - Physics</i> , 2013 , 52, 1265-1282	1.4	16
94	Nucleating effect of multi-walled carbon nanotubes and graphene on the crystallization kinetics and melting behavior of olefin block copolymers. <i>RSC Advances</i> , 2014 , 4, 19024	3.7	15
93	Synthesis and thermal properties of novel room temperature vulcanized (RTV) silicone rubber containing POSS units in polysioxane main chains. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	15
92	Synthesis of a New Nanosilica-Based Antioxidant and Its Influence on the Anti-Oxidation Performance of Natural Rubber. <i>Journal of Macromolecular Science - Physics</i> , 2013 , 52, 84-94	1.4	15
91	A novel impedance matching material derived from polymer micro-particles. <i>Journal of Materials Science</i> , 2007 , 42, 199-206	4.3	15
90	Collagen-based breathable, humidity-ultrastable and degradable on-skin device. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2548-2556	7.1	14

89	Antioxidation efficiency and reinforcement performance of precipitated-silica-based immobile antioxidants obtained by a sol method in natural rubber composites. <i>RSC Advances</i> , 2015 , 5, 92344-92353	3.7	14
88	Wide-range linear viscoelastic hydrogels with high mechanical properties and their applications in quantifiable stress-strain sensors. <i>Chemical Engineering Journal</i> , 2020 , 399, 125697	14.7	14
87	Competitive adsorption for simultaneous removal of emulsified water and surfactants from mixed surfactant-stabilized emulsions with high flux. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14058-14064	13	14
86	Effect of Alkyl Side Chain Length on Relaxation Behaviors in Poly(n-alkyl Acrylates) and Poly(n-alkyl Methacrylates). <i>Journal of Macromolecular Science - Physics</i> , 2010 , 50, 188-200	1.4	14
85	Compatibility driven self-strengthening during the radical-responsive remolding process of poly-isoprene vitrimers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25324-25332	13	14
84	Plant Polyphenols as Multifunctional Platforms To Fabricate Three-Dimensional Superhydrophobic Foams for Oil/Water and Emulsion Separation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16442-16450	3.9	14
83	Three-Dimensional Programmable, Reconfigurable, and Recyclable Biomass Soft Actuators Enabled by Designing an Inverse Opal-Mimetic Structure with Exchangeable Interfacial Crosslinks. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15757-15764	9.5	13
82	Simultaneously reinforcing and toughening epoxy network with a novel hyperbranched polysiloxane modifier. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46340	2.9	13
81	Synergistic effect of CB and GO/CNT hybrid fillers on the mechanical properties and fatigue behavior of NR composites.. <i>RSC Advances</i> , 2018 , 8, 10573-10581	3.7	13
80	Dynamics of Poly (butyl acrylate) and Poly (ethyl acrylate) with internal double bonds. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	13
79	Strain-induced crystallization of natural rubber with high strain rates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1630-1637	2.6	13
78	Simultaneous reinforcement and toughness improvement of an epoxy-phenolic network with a hyperbranched polysiloxane modifier.. <i>RSC Advances</i> , 2018 , 8, 17606-17615	3.7	13
77	Investigation on the thermal oxidative aging mechanism and lifetime prediction of butyl rubber. <i>Macromolecular Research</i> , 2013 , 21, 10-16	1.9	12
76	Thermogravimetric studies of styreneButadiene rubber (SBR) after accelerated thermal aging. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 247-254	4.1	12
75	Study on the self-crosslinking behavior based on polychloroprene rubber and epoxidized natural rubber. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 1084-1090	2.9	12
74	Tough Underwater Super-tape Composed of Semi-interpenetrating Polymer Networks with a Water-Repelling Liquid Surface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1535-1544	9.5	12
73	Self-Healing Amorphous Polymers with Room-Temperature Phosphorescence Enabled by Boron-Based Dative Bonds. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 699-705	4.3	12
72	Electron-Donating Effect Enabled Simultaneous Improvement on the Mechanical and Self-Healing Properties of Bromobutyl Rubber Ionomers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53239-53248	9.5	12

71	Effect of incompletely condensed tri-silanol-phenyl-POSS on the thermal stability of silicone rubber. <i>Polymer Bulletin</i> , 2019 , 76, 2835-2850	2.4	12
70	Characterizing the naturally occurring sacrificial bond within natural rubber. <i>Polymer</i> , 2019 , 161, 41-48	3.9	12
69	A strain-adaptive, self-healing, breathable and perceptive bottle-brush material inspired by skin. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24645-24654	13	11
68	Study of molecular weight and chain branching architectures of natural rubber. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	11
67	Antiaging Mechanism for Partly Crosslinked Polyacrylamide in Saline Solution under High-Temperature and High-Salinity Conditions. <i>Journal of Macromolecular Science - Physics</i> , 2013 , 52, 113-126	1.4	11
66	Strain-induced crystallization behavior of natural rubber and trans-1,4-polyisoprene crosslinked blends. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1346-1354	2.9	11
65	Strain-induced crystallization behavior of polychloroprene rubber. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 37-42	2.9	11
64	Pd(0) Nanoparticle Stabilized by Tannin-grafted SiO ₂ Beads and Its Application in Liquid-hydrogenation of Unsaturated Organic Compounds. <i>Catalysis Letters</i> , 2009 , 133, 192-200	2.8	11
63	A low-cost and water resistant biomass adhesive derived from the hydrolysate of leather waste. <i>RSC Advances</i> , 2017 , 7, 4024-4029	3.7	10
62	Detecting structural orientation in isoprene rubber/multiwall carbon nanotube nanocomposites at different scales during uniaxial deformation. <i>Polymer International</i> , 2018 , 67, 258-268	3.3	10
61	Propargyl ether-functionalized poly(m-phenylene): a new precursor for the preparation of polymers with high modulus and high T _g . <i>RSC Advances</i> , 2015 , 5, 23009-23014	3.7	10
60	Structural evolution during uniaxial deformation of natural rubber reinforced with nano-alumina. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 2001-2008	3.2	10
59	Rheological Behavior of Partially Hydrolyzed Polyacrylamide Hydrogel Produced by Chemical Gelation. <i>Journal of Macromolecular Science - Physics</i> , 2007 , 47, 26-38	1.4	10
58	A Shish-kebab superstructure in low-crystallinity elastomer nanocomposites: Morphology regulation and load-transfer. <i>Macromolecular Research</i> , 2015 , 23, 537-544	1.9	9
57	Stability, seepage and displacement characteristics of heterogeneous branched-preformed particle gels for enhanced oil recovery.. <i>RSC Advances</i> , 2018 , 8, 4881-4889	3.7	9
56	Effect of diphenylsiloxane unit content on relaxation behavior of poly(dimethylsiloxane-co-diphenylsiloxane). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1652-1659	2.6	9
55	A facile synthesis of a highly stable superhydrophobic nanofibrous film for effective oil/water separation. <i>RSC Advances</i> , 2016 , 6, 82352-82358	3.7	8
54	Study on the stretch induced phase transition of trans-1,4-polyisoprene by in-situ SAXS and WAXS measurements. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	8

53	Effect of nanosilica on thermal oxidative degradation of SBR. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 359-366	4.1	8
52	Study on the morphology, rheology and surface of dynamically vulcanized chlorinated butyl rubber/polyethylacrylate extrudates: effect of extrusion temperature and times. <i>Journal of Materials Science</i> , 2007 , 42, 4494-4501	4.3	8
51	Synergistic Combination of the Capillary Effect of Collagen Fibers and Size-Sieving Merits of Metal-Organic Frameworks for Emulsion Separation with High Flux. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14925-14934	3.9	8
50	A review of the slow relaxation processes in the glass-rubber transition region of amorphous polymers. <i>Phase Transitions</i> , 2015 , 88, 843-858	1.3	7
49	Iridium-Catalyzed Carbenoid Insertion of Sulfoxonium Ylides for Synthesis of Quinoxalines and α -Keto Thioethers in Water. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 4635-4638	3.2	7
48	Synthesis and aqueous solution properties of novel thermosensitive polyacrylamide derivatives. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 766-775	2.9	7
47	Study on the mechanism of the formation of polyhedral oligomeric silsesquioxanes by the 2D correlation infrared spectral. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 3658-3665	2.9	7
46	The dynamic characteristics of silicone rubber isolator. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 130-133	1	7
45	Intermediate state and weak intermolecular interactions of β -trans-1,4-Polyisoprene during the gradual cooling crystallization process investigated by In situ FTIR and two-dimensional infrared correlation spectroscopy. <i>Macromolecular Research</i> , 2013 , 21, 493-501	1.9	7
44	Collagen fibers with tuned wetting properties for dual separation of oil-in-water and water-in-oil emulsion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24388-24392	1.3	7
43	Constructing hydrophobic protection for ionic interactions toward water, acid, and base-resistant self-healing elastomers and electronic devices. <i>Science China Materials</i> , 2021 , 64, 1780-1790	7.1	7
42	Thermal and mechanical activation of dynamically stable ionic interaction toward self-healing strengthening elastomers. <i>Materials Horizons</i> , 2021 , 8, 2553-2561	14.4	7
41	A novel phosphatidylcholine-modified polyisoprene: synthesis and characterization. <i>Colloid and Polymer Science</i> , 2016 , 294, 433-439	2.4	6
40	Mechanically robust, notch-insensitive, fatigue resistant and self-recoverable hydrogels with homogeneous and viscoelastic network constructed by a novel multifunctional cross-linker. <i>Polymer</i> , 2019 , 179, 121661	3.9	6
39	Rheological behaviors and molecular motions of semi-diluted Xanthan solutions under shear: Experimental studies. <i>Polymer Science - Series A</i> , 2014 , 56, 687-696	1.2	6
38	The influence of montmorillonite on the anti-reversion in the rubber/clay composites. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 306-311	2.9	6
37	Kinetics study on the formation of resol with high content of hydroxymethyl group. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 3157-3162	2.9	6
36	A Degradable and Self-Healable Vitrimer Based on Non-isocyanate Polyurethane. <i>Frontiers in Chemistry</i> , 2020 , 8, 585569	5	6

35	Polyphenolic-Chemistry-Enabled, Mechanically Robust, Flame Resistant and Superhydrophobic Membrane for Separation of Mixed Surfactant-Stabilized Emulsions. <i>Chemistry - A European Journal</i> , 2018 , 24, 10953-10958	4.8	5
34	Relaxation behavior and time-temperature superposition (TTS) profiles of thermally aged styrene-butadiene rubber (SBR). <i>Macromolecular Research</i> , 2014 , 22, 820-825	1.9	5
33	Synthesis and rheological properties of hydrophobically modified poly(vinyl alcohol). <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	5
32	Mechanism of Formation of Partially Crosslinked Polyacrylamide Complexes. <i>Journal of Macromolecular Science - Physics</i> , 2013 , 52, 22-35	1.4	5
31	Skin collagen fiber-based radar absorbing materials. <i>Science Bulletin</i> , 2011 , 56, 202-208		5
30	Rheological Properties of Template Polymerization Polyacrylamide Aqueous Solutions. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 2203-2213	1.4	5
29	Tanning agent free leather making enabled by the dispersity of collagen fibers combined with superhydrophobic coating. <i>Green Chemistry</i> , 2021 , 23, 3581-3587	10	5
28	Observing Nucleation Transition in Stretched Natural Rubber through Self-Seeding. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11887-92	3.4	4
27	The effects of proteins and phospholipids on the network structure of natural rubber: a rheological study in bulk and in solution. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	4
26	Homogenization of natural rubber network induced by nanoclay. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	4
25	Relationship between the material properties and fatigue crack-growth characteristics of natural rubber filled with different carbon blacks. <i>Journal of Applied Polymer Science</i> , 2010 , 117, n/a-n/a	2.9	4
24	Mechanically robust smart hydrogels enabled by an organic-inorganic hybridized crosslinker. <i>Polymer</i> , 2021 , 214, 123236	3.9	4
23	Reinforcing self-healing and Re-processable ionomers with carbon black: An investigation on the network structure and molecular mobility. <i>Composites Science and Technology</i> , 2021 , 216, 109035	8.6	4
22	Collagen Fiber-based Advanced Separation Materials: Recent Developments and Future Perspectives. <i>Advanced Materials</i> , 2021 , e2107891	24	4
21	Interfacial crystallization of low-crystallinity elastomer incorporated by multi-walled carbon nanotubes: Mechanical reinforcement, structural evolution and enhanced thermal stability. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	3
20	Improved mechanical properties and special reinforcement mechanism of natural rubber reinforced by in situ polymerization of zinc dimethacrylate. <i>Journal of Applied Polymer Science</i> , 2009 , 116, n/a-n/a	2.9	3
19	Insights into Regional Wetting Behaviors of Amphiphilic Collagen for Dual Separation of Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18209-18217	9.5	3
18	Mechanochemistry modified waste rubber powder and its application in hydrogel. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	3

17	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy. <i>Angewandte Chemie</i> , 2018 , 130, 16062-16066	3.6	3
16	Structural evolution of OBC/carbon nanotube bundle nanocomposites under uniaxial deformation. <i>RSC Advances</i> , 2015 , 5, 32909-32919	3.7	2
15	Double network epoxies with simultaneous high mechanical property and shape memory performance. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	2
14	Polyhedral oligomeric silsesquioxane/silica/polydimethylsiloxane rubber composites with enhanced mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	2
13	Dynamic Fatigue Behavior of Natural Rubber Reinforced with Nanoclay and Carbon Black. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 1646-1657	1.4	2
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11	Effect of vinyl acetate on aging mechanism of polyacrylate under UV light. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1717-1724	2.9	2
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