Zhixin Jia

List of Publications by Citations

95	3,321	29	56
papers	citations	h-index	g-index
98	3,680	3.6	5.4
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
95	Newly emerging applications of halloysite nanotubes: a review. *Polymer International*, **2010**, 59, 574-582	3.3	523
94	Thermal stability and flame retardant effects of halloysite nanotubes on poly(propylene). *European Polymer Journal*, **2006**, 42, 1362-1369	5.2	381
93	Preparation of butadiene–styrene–vinyl pyridine rubber–graphene oxide hybrids through co-coagulation process and in situ interface tailoring. *Journal of Materials Chemistry*, **2012**, 22, 7492		142
92	Toughness and strength improvement of diglycidyl ether of bisphenol-A by low viscosity liquid hyperbranched epoxy resin. *Journal of Applied Polymer Science*, **2006**, 101, 2504-2511	2.9	138
91	Rational Design of Graphene Surface Chemistry for High-Performance Rubber/Graphene Composites. *Macromolecules*, **2014**, 47, 8663-8673	5.5	136
90	Natural inorganic nanotubes reinforced epoxy resin nanocomposites. *Journal of Polymer Research*, **2008**, 15, 205-212	2.7	121
89	Interfacial interaction between the epoxidized natural rubber and silica in natural rubber/silica composites. *Applied Surface Science*, **2015**, 328, 306-313	6.7	103
88	Reinforcing and Flame-Retardant Effects of Halloysite Nanotubes on LLDPE. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 607-613		102
87	Styrene–butadiene rubber/halloysite nanotubes nanocomposites modified by methacrylic acid. *Applied Surface Science*, **2008**, 255, 2715-2722	6.7	84
86	Structure and Performance of Polyamide 6/Halloysite Nanotubes Nanocomposites. *Polymer Journal* , **2009**, 41, 835-842	2.7	76
85	A method to improve the mechanical performance of styrene-butadiene rubber via vulcanization accelerator modified silica. *Composites Science and Technology*, **2015**, 117, 46-53	8.6	64
84	Effects of halloysite nanotubes on kinetics and activation energy of non-isothermal crystallization of polypropylene. *Journal of Polymer Research*, **2010**, 17, 109-118	2.7	61
83	Preparation and Characterization of Polypropylene Grafted Halloysite and Their Compatibility Effect to Polypropylene/Halloysite Composite. *Polymer Journal*, **2006**, 38, 1198-1204	2.7	54
82	Preparation and properties of natural rubber nanocomposites with solid-state organomodified montmorillonite. *Journal of Applied Polymer Science*, **2008**, 107, 2786-2792	2.9	53
81	Preparation, structure and properties of nitrile–butadiene rubber–organoclay nanocomposites by reactive mixing intercalation method. *Journal of Applied Polymer Science*, **2006**, 100, 1905-1913	2.9	52
80	The use of a hybrid consisting of tubular clay and graphene as a reinforcement for elastomers. *RSC Advances*, **2013**, 3, 17057	3.7	48
79	One-step synthesis of metal nanoparticle decorated graphene by liquid phase exfoliation. *Journal of Materials Chemistry*, **2012**, 22, 20342		47

78	Effects of interfacial interaction on chain dynamics of rubber/graphene oxide hybrids: a dielectric relaxation spectroscopy study. *RSC Advances*, **2013**, 3, 14549	3.7	45
77	Reinforcement of Natural Rubber: The Use of in Situ Regenerated Cellulose from Alkaline□Urea□Aqueous System. *Macromolecules*, **2017**, 50, 7211-7221	5.5	43
76	Preparation of halloysite nanotubes supported 2-mercaptobenzimidazole and its application in natural rubber. *Composites Part A: Applied Science and Manufacturing*, **2015**, 73, 63-71	8.4	42
75	Toughness and reinforcement of diglycidyl ether of bisphenol-A by hyperbranched poly(trimellitic anhydride-butanediol glycol) ester epoxy resin. *Polymer Composites*, **2009**, 30, 918-925	3	42
74	Adsorption of Ionic Liquid onto Halloysite Nanotubes: Mechanism and Reinforcement of the Modified Clay to Rubber. *Journal of Macromolecular Science - Physics*, **2010**, 49, 1029-1043	1.4	41
73	Formation of Reinforcing Inorganic Network in Polymer via Hydrogen Bonding Self-Assembly Process. *Polymer Journal*, **2007**, 39, 208-212	2.7	41
72	Synthesis and characterization of solid-phase graft copolymer of polypropylene with styrene and maleic anhydride. *Journal of Applied Polymer Science*, **2000**, 78, 2482-2487	2.9	40
71	Constructing conductive titanium carbide nanosheet (MXene) network on polyurethane/polyacrylonitrile fibre framework for flexible strain sensor. *Journal of Colloid and Interface Science*, **2021**, 584, 1-10	9.3	33
70	Fluorescent whitening agent stabilized graphene and its composites with chitosan. *Journal of Materials Chemistry*, **2011**, 21, 17111		32
69	Preparation of hyperbranched epoxy resin containing nitrogen heterocycle and its toughened and reinforced composites. *Journal of Applied Polymer Science*, **2012**, 123, 3261-3269	2.9	30
68	Thiol-containing ionic liquid for the modification of styrene□butadiene rubber/silica composites. *Journal of Applied Polymer Science*, **2012**, 123, 1252-1260	2.9	29
67	Compatibilization of polypropylene/nylon 6 blends with a polypropylene solid-phase graft. *Journal of Applied Polymer Science*, **2004**, 93, 420-427	2.9	29
66	Study on the Performance of Diglycidyl Ether of Bisphenol-A/Hyperbranched Aromatic Polyester Epoxy Resin (HTME) System and Their Toughness Mechanism. *Polymer-Plastics Technology and Engineering*, **2006**, 45, 1005-1011		26
65	The aggregation structure regulation of lignin by chemical modification and its effect on the property of lignin/styrene□butadiene rubber composites. *Journal of Applied Polymer Science*, **2018**, 135, 45759	2.9	25
64	Cure behavior of unsaturated polyester/modified montmorillonite nanocomposites. *Polymer International*, **2007**, 56, 267-274	3.3	25
63	Mechanism of adhesion of polyurethane/polymethacrylate simultaneous interpenetrating networks adhesives to polymer substrates. *Journal of Polymer Science, Part B: Polymer Physics*, **1994**, 32, 817-823	2.6	25
62	In situ dispersion and compatibilization of lignin/epoxidized natural rubber composites: reactivity, morphology and property. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	24
61	Thermoplastic Elastomers Derived from Scrap Rubber Powder/LLDPE Blend with LLDPE-graft-(Epoxidized Natural Rubber) Dual Compatibilizer. *Macromolecular Materials and Engineering*, **2004**, 289, 360-367	3.9	24

60	TiC MXene as a new nanofiller for robust and conductive elastomer composites. *Nanoscale*, **2019**, 11, 14712-14719	7.7	23
59	Elastomer Reinforced with Regenerated Chitin from Alkaline/Urea Aqueous System. *ACS Applied Materials & Interfaces*, **2017**, 9, 26460-26467	9.5	23
58	Synthesis and Characterization of Low Viscosity Aromatic Hyperbranched Poly(trimellitic anhydride ethylene glycol) Ester Epoxy Resin. *Macromolecular Chemistry and Physics*, **2009**, 210, 1159-1166	2.6	21
57	Synthesis and characterization of low viscosity aromatic hyperbranched polyester epoxy resin. *Macromolecular Research*, **2009**, 17, 289-295	1.9	21
56	Effect of Alkali Treatment on Structure and Mechanical Properties of AcrylonitrileButadieneStyrene/Bamboo Fiber Composites. *Journal of Macromolecular Science - Physics*, **2012**, 51, 2232-2244	1.4	20
55	Effect of 3-propionylthio-1-propyltrimethoxylsilane on structure, mechanical, and dynamic mechanical properties of NR/silica composites. *Polymer Composites*, **2009**, 30, 955-961	3	20
54	Synthesis and characterization of a dimethacrylates monomer with low shrinkage and water sorption for dental application. *Journal of Applied Polymer Science*, **2012**, 125, 114-120	2.9	19
53	SBR/silica composites modified by a polymerizable protic ionic liquid. *Polymer Journal*, **2010**, 42, 555-561	2.7	19
52	Effect of acetone extract from natural rubber on the structure and interface interaction in NR/CB composites. *RSC Advances*, **2017**, 7, 26458-26467	3.7	18
51	Preparation of highly conductive adhesives by in situ generated and sintered silver nanoparticles during curing process. *Journal of Materials Science: Materials in Electronics*, **2012**, 23, 22-30	2.1	16
50	Self-crosslinkable lignin/epoxidized natural rubber composites. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	16
49	Synthesis and characterization of 3-benzothiazolthio-1-propyltriethoxylsilane and its reinforcement for styreneButadiene rubber/silica composites. *Journal of Applied Polymer Science*, **2009**, 112, 1967-1973	2.9	16
48	Kinetics of curing and thermal degradation of hyperbranched epoxy (HTDE)/diglycidyl ether of bisphenol-A epoxy hybrid resin. *Journal of Thermal Analysis and Calorimetry*, **2009**, 98, 819-824	4.1	16
47	Structure and properties of polypropylene/clay nanocomposites compatibilized by solid-phase grafted polypropylene. *Polymer Composites*, **2008**, 29, 698-701	3	16
46	Exploitation of introducing of catalytic centers into layer galleries of layered silicates and related epoxy nanocomposites. I. Epoxy nanocomposites derived from montmorillonite modified with catalytic surfactant-bearing carboxyl groups. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 1192-1198	2.6	16
45	Properties of 2,2-Bis[p-(2?-hydroxy-3?-methacryloxy propoxy)phenyl]propane/Isobornyl (Meth)acrylate copolymers. *Journal of Applied Polymer Science*, **2012**, 126, 1527-1531	2.9	15
44	Influence of nanocrystalline cellulose on structure and properties of natural rubber/silica composites. *Polymer Composites*, **2015**, 36, 861-868	3	14
43	A Robust and Versatile Continuous Super-Repellent Polymeric Film for Easy Repair and Underwater Display. *ACS Applied Materials & Interfaces*, **2020**, 12, 6677-6687	9.5	13

42	Immobilization of rubber additive on graphene for high-performance rubber composites. *Journal of Colloid and Interface Science*, **2019**, 550, 190-198	9.3	11
41	Structure and Flame-Retardant Actions of Rigid Polyurethane Foams with Expandable Graphite. *Polymers*, **2019**, 11,	4.5	11
40	Morphology and performance of styrene butadiene rubber filled with modified graphite nanoplatelet and carbon black. *Polymers for Advanced Technologies*, **2016**, 27, 830-840	3.2	11
39	Thermal degradation of the polyimide synthesized from 4,4?-(hexafluoroisopropylidene) diphthalic dianhydride and 4,4?-diaminodiphenylmethane. *Journal of Applied Polymer Science*, **2004**, 91, 2295-2301	2.9	11
38	The Synergistic Effect of Ionic Liquid-Modified Expandable Graphite and Intumescent Flame-Retardant on Flame-Retardant Rigid Polyurethane Foams. *Materials*, **2020**, 13,	3.5	10
37	Enhanced oil resistance and mechanical properties of nitrile butadiene rubber/lignin composites modified by epoxy resin. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	10
36	Synthesis and Characterization of Low Viscosity Aromatic Hyperbranched Poly(trimellitic anhydride diethylene glycol) Ester Epoxy Resin. *Journal of Macromolecular Science - Pure and Applied Chemistry* , **2010**, 47, 957-964	2.2	9
35	Structure and flammability properties of NR-organoclay nanocomposites. *Polymer Composites*, **2009**, 30, 107-110	3	9
34	A high-performance, thermal and electrical conductive elastomer composite based on Ti3C2 MXene. *Composites Part A: Applied Science and Manufacturing*, **2021**, 145, 106292	8.4	9
33	Tubular Clay Composites with High Strength and Transparency. *Journal of Macromolecular Science - Physics*, **2010**, 49, 111-121	1.4	8
32	Photopolymerization and properties of fluorene-based dimethacrylate monomer used as a root canal sealer. *Advances in Polymer Technology*, **2009**, 27, 108-116	1.9	8
31	Thermal stability of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/modified montmorillonite bio-nanocomposites. *Polymer Composites*, **2017**, 38, 673-681	3	7
30	Flame retarded polyethylene/wood flour composites with high performances: Satisfying both sides with intumescent flame retardants and synergistic compatibilizers, respectively. *Polymer Composites*, **2018**, 39, 569-579	3	7
29	Morphology and properties of halloysite nanotubes reinforced polypropylene nanocomposites. *E-Polymers*, **2008**, 8,	2.7	7
28	Quantitative analysis of the higher fatty acids in acetone solutes (AS) from raw natural rubber and their impacts on the structure and properties of NR/silica composites. *Industrial Crops and Products*, **2018**, 121, 80-89	5.9	7
27	Effects of epoxy content on dynamic mechanical behaviour of PEI-toughened dicyanate–novolac epoxy blends. *Polymer International*, **2004**, 53, 1378-1381	3.3	6
26	Polydimethylsiloxane-based superhydrophobic membranes: fabrication, durability, repairability, and applications. *Polymer Chemistry*, **2020**, 11, 2370-2380	4.9	5
25	Effect of Wood Flour on the Curing Behavior, Mechanical Properties, and Water Absorption of Natural Rubber/Wood Flour Composites. *Journal of Macromolecular Science - Physics*, **2011**, 50, 1625-1636	1.4	5

24	Study on Curing Kinetics and Thermal Degradation Kinetics of Hyperbranched Poly(Trimellitic Anhydride Ethylene Glycol) Epoxy (HTME)/Diglycidyl Ether of Bisphenol-A Epoxy Hybrid Resin. *Polymer-Plastics Technology and Engineering*, **2008**, 47, 1220-1226		5
23	Modification In Situ of EPDM Filled with Carbon Black by Glycidyl Methacrylate. *Polymer-Plastics Technology and Engineering*, **2007**, 46, 1167-1171		5
22	Effects of monomer addition sequences on the properties of silicon-containing copolyimides. *Polymer International*, **2005**, 54, 1097-1101	3.3	5
21	In situ fabrication of graphene oxide supported nano silica for the preparation of rubber composites with high mechanical strength and thermal conductivity. *Polymer Composites*, **2019**, 40, E1633-E1641	3	5
20	Inorganic and Organic Hybrid Nanoparticles as Multifunctional Crosslinkers for Rubber Vulcanization with High-Filler Rubber Interaction. *Polymers*, **2018**, 10,	4.5	5
19	Improving the performances of polyethylene/sisal fiber composites by infiltratively compatibilizing the multi-scale interfaces. *Composite Interfaces*, **2015**, 22, 489-502	2.3	4
18	Properties and morphology of bioceramics/poly(D,L-lactide) composites modified by in situ compatibilizing extrusion. *Journal of Applied Polymer Science*, **2006**, 102, 4085-4091	2.9	4
17	Novel Hybrid Biomass Anti-Aging Filler for Styrene-Butadiene Rubber Composites with Antioxidative and Reinforcing Properties. *Materials*, **2020**, 13,	3.5	4
16	Three-dimensional self-similar super-repellent films for underwater display and wettability switching. *Journal of Materials Chemistry C*, **2019**, 7, 13548-13558	7.1	4
15	Advances in Natural Rubber/Montmorillonite Nanocomposites **2009**, 415-433		3
14	Study on Crystallization Behavior of Solid-Phase Graft Copolymers of Polypropylene with Maleic Anhydride and Methyl Methacrylate. *Polymer-Plastics Technology and Engineering*, **2008**, 47, 996-1001		3
13	Transform Rice Husk and Recycled Polyethylene into High Performance Composites: Using a Novel Compatibilizer to Infiltratively Enhance the Interfacial Interactions. *Progress in Rubber, Plastics and Recycling Technology*, **2016**, 32, 253-268	1.7	3
12	Reutilization of waste printed circuit boards nonmetallic powders in elastomer composites: Significant improvements of curing and mechanical properties. *Polymer Composites*, **2020**, 41, 2224-2232	3	2
11	Reinforced Rubber with Ionic Liquid Modifued Carbon Black. *Polymers and Polymer Composites*, **2011**, 19, 593-602	0.8	2
10	Bisphenol-A epoxy resin reinforced and toughened by hyperbranched epoxy resin. *Frontiers of Chemical Engineering in China*, **2007**, 1, 349-354		2
9	Styrene butadiene rubber/carbon black composites modified by imidazole derivatives. *International Journal of Polymer Analysis and Characterization*, **2016**, 21, 447-457	1.7	2
8	Determination of Molecular Structures of Acetone Solutes from Natural Rubber by Pyrolysis Gas Chromatography Coupled to Mass Spectrometry. *Chromatographia*, **2018**, 81, 1085-1096	2.1	2
7	Effects of decoppering pretreatment on accelerated weathering behaviors of waste printed circuit boards powders reinforced polypropylene composites. *Journal of Applied Polymer Science*, **2019**, 136, 48224	2.9	1

6	Synthesis and anti-aging property in acrylonitrile-butadiene rubber of non-aromatic dendritic antioxidant with amine groups. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2017**, 54, 612-621	2.2	1
5	Microwave-Irradiated Ring-Opening Polymerization of Octamethylcyclotetrasiloxane in the Presence of Water. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2008**, 57, 717-729	3	1
4	Structure and properties of epoxidized nature rubber/organoclay nanocomposites **2008**,		1
3	Effect of compound organification of montmorillonite on the structure and properties of polypropylene/montmorillonite nanocomposites. *Frontiers of Materials Science in China*, **2007**, 1, 65-71		1
2	Thermal and thermo-oxidative degradation of flame retardant high impact polystyrene with triphenyl phosphate and novolac epoxy resin. *Journal Wuhan University of Technology, Materials Science Edition*, **2007**, 22, 486-489	1	1
1	Effect of unsaturated hydroxyl-fatty acid modified nano-CaCO3 on the morphological and rheological behavior of PP. *Frontiers of Chemistry in China: Selected Publications From Chinese Universities*, **2009**, 4, 75-82		