

Zhixin Jia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

3,321
citations

29
h-index

56
g-index

98
ext. papers

3,680
ext. citations

3.6
avg, IF

5.4
L-index

#	Paper	IF	Citations
95	A high-performance, thermal and electrical conductive elastomer composite based on Ti3C2 MXene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 145, 106292	8.4	9
94	Constructing conductive titanium carbide nanosheet (MXene) network on polyurethane/polyacrylonitrile fibre framework for flexible strain sensor. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 1-10	9.3	33
93	Polydimethylsiloxane-based superhydrophobic membranes: fabrication, durability, repairability, and applications. <i>Polymer Chemistry</i> , 2020 , 11, 2370-2380	4.9	5
92	A Robust and Versatile Continuous Super-Repellent Polymeric Film for Easy Repair and Underwater Display. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6677-6687	9.5	13
91	Reutilization of waste printed circuit boards nonmetallic powders in elastomer composites: Significant improvements of curing and mechanical properties. <i>Polymer Composites</i> , 2020 , 41, 2224-2232 ³		2
90	Novel Hybrid Biomass Anti-Aging Filler for Styrene-Butadiene Rubber Composites with Antioxidative and Reinforcing Properties. <i>Materials</i> , 2020 , 13,	3.5	4
89	The Synergistic Effect of Ionic Liquid-Modified Expandable Graphite and Intumescent Flame-Retardant on Flame-Retardant Rigid Polyurethane Foams. <i>Materials</i> , 2020 , 13,	3.5	10
88	Immobilization of rubber additive on graphene for high-performance rubber composites. <i>Journal of Colloid and Interface Science</i> , 2019 , 550, 190-198	9.3	11
87	Structure and Flame-Retardant Actions of Rigid Polyurethane Foams with Expandable Graphite. <i>Polymers</i> , 2019 , 11,	4.5	11
86	TiC MXene as a new nanofiller for robust and conductive elastomer composites. <i>Nanoscale</i> , 2019 , 11, 14712-14719	7.7	23
85	Effects of decoppering pretreatment on accelerated weathering behaviors of waste printed circuit boards powders reinforced polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48224	2.9	1
84	Three-dimensional self-similar super-repellent films for underwater display and wettability switching. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13548-13558	7.1	4
83	In situ fabrication of graphene oxide supported nano silica for the preparation of rubber composites with high mechanical strength and thermal conductivity. <i>Polymer Composites</i> , 2019 , 40, E1633-E1641		5
82	Flame retarded polyethylene/wood flour composites with high performances: Satisfying both sides with intumescent flame retardants and synergistic compatibilizers, respectively. <i>Polymer Composites</i> , 2018 , 39, 569-579	3	7
81	The aggregation structure regulation of lignin by chemical modification and its effect on the property of lignin/styrene-butadiene rubber composites. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45759	2.9	25
80	Inorganic and Organic Hybrid Nanoparticles as Multifunctional Crosslinkers for Rubber Vulcanization with High-Filler Rubber Interaction. <i>Polymers</i> , 2018 , 10,	4.5	5
79	Determination of Molecular Structures of Acetone Solutes from Natural Rubber by Pyrolysis Gas Chromatography Coupled to Mass Spectrometry. <i>Chromatographia</i> , 2018 , 81, 1085-1096	2.1	2

78	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. <i>Industrial Crops and Products</i> , 2018 , 121, 80-89	5.9	7
77	Thermal stability of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/modified montmorillonite bio-nanocomposites. <i>Polymer Composites</i> , 2017 , 38, 673-681	3	7
76	Effect of acetone extract from natural rubber on the structure and interface interaction in NR/CB composites. <i>RSC Advances</i> , 2017 , 7, 26458-26467	3.7	18
75	Reinforcement of Natural Rubber: The Use of in Situ Regenerated Cellulose from Alkaline/Urea/Aqueous System. <i>Macromolecules</i> , 2017 , 50, 7211-7221	5.5	43
74	Elastomer Reinforced with Regenerated Chitin from Alkaline/Urea Aqueous System. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26460-26467	9.5	23
73	Synthesis and anti-aging property in acrylonitrile-butadiene rubber of non-aromatic dendritic antioxidant with amine groups. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2017 , 54, 612-621	2.2	1
72	Morphology and performance of styrene butadiene rubber filled with modified graphite nanoplatelet and carbon black. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 830-840	3.2	11
71	Transform Rice Husk and Recycled Polyethylene into High Performance Composites: Using a Novel Compatibilizer to Infiltratively Enhance the Interfacial Interactions. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2016 , 32, 253-268	1.7	3
70	Enhanced oil resistance and mechanical properties of nitrile butadiene rubber/lignin composites modified by epoxy resin. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	10
69	Styrene butadiene rubber/carbon black composites modified by imidazole derivatives. <i>International Journal of Polymer Analysis and Characterization</i> , 2016 , 21, 447-457	1.7	2
68	A method to improve the mechanical performance of styrene-butadiene rubber via vulcanization accelerator modified silica. <i>Composites Science and Technology</i> , 2015 , 117, 46-53	8.6	64
67	Improving the performances of polyethylene/sisal fiber composites by infiltratively compatibilizing the multi-scale interfaces. <i>Composite Interfaces</i> , 2015 , 22, 489-502	2.3	4
66	Influence of nanocrystalline cellulose on structure and properties of natural rubber/silica composites. <i>Polymer Composites</i> , 2015 , 36, 861-868	3	14
65	In situ dispersion and compatibilization of lignin/epoxidized natural rubber composites: reactivity, morphology and property. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	24
64	Preparation of halloysite nanotubes supported 2-mercaptobenzimidazole and its application in natural rubber. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 73, 63-71	8.4	42
63	Interfacial interaction between the epoxidized natural rubber and silica in natural rubber/silica composites. <i>Applied Surface Science</i> , 2015 , 328, 306-313	6.7	103
62	Rational Design of Graphene Surface Chemistry for High-Performance Rubber/Graphene Composites. <i>Macromolecules</i> , 2014 , 47, 8663-8673	5.5	136
61	Self-crosslinkable lignin/epoxidized natural rubber composites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	16

60	Effects of interfacial interaction on chain dynamics of rubber/graphene oxide hybrids: a dielectric relaxation spectroscopy study. <i>RSC Advances</i> , 2013 , 3, 14549	3.7	45
59	The use of a hybrid consisting of tubular clay and graphene as a reinforcement for elastomers. <i>RSC Advances</i> , 2013 , 3, 17057	3.7	48
58	Thiol-containing ionic liquid for the modification of styrene/Butadiene rubber/silica composites. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 1252-1260	2.9	29
57	Preparation of hyperbranched epoxy resin containing nitrogen heterocycle and its toughened and reinforced composites. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 3261-3269	2.9	30
56	Preparation of highly conductive adhesives by in situ generated and sintered silver nanoparticles during curing process. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 22-30	2.1	16
55	One-step synthesis of metal nanoparticle decorated graphene by liquid phase exfoliation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20342		47
54	Effect of Alkali Treatment on Structure and Mechanical Properties of Acrylonitrile/Butadiene/Styrene/Bamboo Fiber Composites. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 2232-2244	1.4	20
53	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		142
52	Synthesis and characterization of a dimethacrylates monomer with low shrinkage and water sorption for dental application. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 114-120	2.9	19
51	Properties of 2,2-Bis[p-(2-hydroxy-3-methacryloxy propoxy)phenyl]propane/Isobornyl (Meth)acrylate copolymers. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 1527-1531	2.9	15
50	Reinforced Rubber with Ionic Liquid Modified Carbon Black. <i>Polymers and Polymer Composites</i> , 2011 , 19, 593-602	0.8	2
49	Fluorescent whitening agent stabilized graphene and its composites with chitosan. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17111		32
48	Effect of Wood Flour on the Curing Behavior, Mechanical Properties, and Water Absorption of Natural Rubber/Wood Flour Composites. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 1625-1636	1.4	5
47	SBR/silica composites modified by a polymerizable protic ionic liquid. <i>Polymer Journal</i> , 2010 , 42, 555-561	2.7	19
46	Tubular Clay Composites with High Strength and Transparency. <i>Journal of Macromolecular Science - Physics</i> , 2010 , 49, 111-121	1.4	8
45	Synthesis and Characterization of Low Viscosity Aromatic Hyperbranched Poly(trimellitic anhydride diethylene glycol) Ester Epoxy Resin. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010 , 47, 957-964	2.2	9
44	Adsorption of Ionic Liquid onto Halloysite Nanotubes: Mechanism and Reinforcement of the Modified Clay to Rubber. <i>Journal of Macromolecular Science - Physics</i> , 2010 , 49, 1029-1043	1.4	41
43	Effects of halloysite nanotubes on kinetics and activation energy of non-isothermal crystallization of polypropylene. <i>Journal of Polymer Research</i> , 2010 , 17, 109-118	2.7	61

42	Newly emerging applications of halloysite nanotubes: a review. <i>Polymer International</i> , 2010 , 59, 574-582	3.3	523
41	Photopolymerization and properties of fluorene-based dimethacrylate monomer used as a root canal sealer. <i>Advances in Polymer Technology</i> , 2009 , 27, 108-116	1.9	8
40	Synthesis and Characterization of Low Viscosity Aromatic Hyperbranched Poly(trimellitic anhydride ethylene glycol) Ester Epoxy Resin. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1159-1166	2.6	21
39	Synthesis and characterization of 3-benzothiazolthio-1-propyltriethoxysilane and its reinforcement for styrene/Butadiene rubber/silica composites. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1967-1973	2.9	16
38	Kinetics of curing and thermal degradation of hyperbranched epoxy (HTDE)/diglycidyl ether of bisphenol-A epoxy hybrid resin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 98, 819-824	4.1	16
37	Effect of unsaturated hydroxyl-fatty acid modified nano-CaCO ₃ on the morphological and rheological behavior of PP. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009 , 4, 75-82		
36	Synthesis and characterization of low viscosity aromatic hyperbranched polyester epoxy resin. <i>Macromolecular Research</i> , 2009 , 17, 289-295	1.9	21
35	Structure and flammability properties of NR-organoclay nanocomposites. <i>Polymer Composites</i> , 2009 , 30, 107-110	3	9
34	Toughness and reinforcement of diglycidyl ether of bisphenol-A by hyperbranched poly(trimellitic anhydride-butanediol glycol) ester epoxy resin. <i>Polymer Composites</i> , 2009 , 30, 918-925	3	42
33	Effect of 3-propionylthio-1-propyltrimethoxysilane on structure, mechanical, and dynamic mechanical properties of NR/silica composites. <i>Polymer Composites</i> , 2009 , 30, 955-961	3	20
32	Structure and Performance of Polyamide 6/Halloysite Nanotubes Nanocomposites. <i>Polymer Journal</i> , 2009 , 41, 835-842	2.7	76
31	Reinforcing and Flame-Retardant Effects of Halloysite Nanotubes on LLDPE. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 607-613		102
30	Advances in Natural Rubber/Montmorillonite Nanocomposites 2009 , 415-433		3
29	Microwave-Irradiated Ring-Opening Polymerization of Octamethylcyclotetrasiloxane in the Presence of Water. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2008 , 57, 717-729	3	1
28	Structure and properties of epoxidized nature rubber/organoclay nanocomposites 2008 ,		1
27	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. <i>Polymer-Plastics Technology and Engineering</i> , 2008 , 47, 1220-1226		5
26	Morphology and properties of halloysite nanotubes reinforced polypropylene nanocomposites. <i>E-Polymers</i> , 2008 , 8,	2.7	7
25	Study on Crystallization Behavior of Solid-Phase Graft Copolymers of Polypropylene with Maleic Anhydride and Methyl Methacrylate. <i>Polymer-Plastics Technology and Engineering</i> , 2008 , 47, 996-1001		3

24	Natural inorganic nanotubes reinforced epoxy resin nanocomposites. <i>Journal of Polymer Research</i> , 2008 , 15, 205-212	2.7	121
23	Structure and properties of polypropylene/clay nanocomposites compatibilized by solid-phase grafted polypropylene. <i>Polymer Composites</i> , 2008 , 29, 698-701	3	16
22	Preparation and properties of natural rubber nanocomposites with solid-state organomodified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2786-2792	2.9	53
21	Styrene/Butadiene rubber/halloysite nanotubes nanocomposites modified by methacrylic acid. <i>Applied Surface Science</i> , 2008 , 255, 2715-2722	6.7	84
20	Cure behavior of unsaturated polyester/modified montmorillonite nanocomposites. <i>Polymer International</i> , 2007 , 56, 267-274	3.3	25
19	Formation of Reinforcing Inorganic Network in Polymer via Hydrogen Bonding Self-Assembly Process. <i>Polymer Journal</i> , 2007 , 39, 208-212	2.7	41
18	Bisphenol-A epoxy resin reinforced and toughened by hyperbranched epoxy resin. <i>Frontiers of Chemical Engineering in China</i> , 2007 , 1, 349-354		2
17	Effect of compound organification of montmorillonite on the structure and properties of polypropylene/montmorillonite nanocomposites. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 65-71		1
16	Thermal and thermo-oxidative degradation of flame retardant high impact polystyrene with triphenyl phosphate and novolac epoxy resin. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007 , 22, 486-489	1	1
15	Modification In Situ of EPDM Filled with Carbon Black by Glycidyl Methacrylate. <i>Polymer-Plastics Technology and Engineering</i> , 2007 , 46, 1167-1171		5
14	Preparation, structure and properties of nitrile/Butadiene rubber/organoclay nanocomposites by reactive mixing intercalation method. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1905-1913	2.9	52
13	Toughness and strength improvement of diglycidyl ether of bisphenol-A by low viscosity liquid hyperbranched epoxy resin. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 2504-2511	2.9	138
12	Properties and morphology of bioceramics/poly(D,L-lactide) composites modified by in situ compatibilizing extrusion. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4085-4091	2.9	4
11	Study on the Performance of Diglycidyl Ether of Bisphenol-A/Hyperbranched Aromatic Polyester Epoxy Resin (HTME) System and Their Toughness Mechanism. <i>Polymer-Plastics Technology and Engineering</i> , 2006 , 45, 1005-1011		26
10	Thermal stability and flame retardant effects of halloysite nanotubes on poly(propylene). <i>European Polymer Journal</i> , 2006 , 42, 1362-1369	5.2	381
9	Preparation and Characterization of Polypropylene Grafted Halloysite and Their Compatibility Effect to Polypropylene/Halloysite Composite. <i>Polymer Journal</i> , 2006 , 38, 1198-1204	2.7	54
8	Effects of monomer addition sequences on the properties of silicon-containing copolyimides. <i>Polymer International</i> , 2005 , 54, 1097-1101	3.3	5
7	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. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 1188-1198	2.6	16

6	Effects of epoxy content on dynamic mechanical behaviour of PEI-toughened dicyanate/epoxy blends. <i>Polymer International</i> , 2004 , 53, 1378-1381	3.3	6
5	Thermal degradation of the polyimide synthesized from 4,4'-(hexafluoroisopropylidene) diphthalic dianhydride and 4,4'-diaminodiphenylmethane. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 2295-2301	2.9	11
4	Compatibilization of polypropylene/nylon 6 blends with a polypropylene solid-phase graft. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 420-427	2.9	29
3	Thermoplastic Elastomers Derived from Scrap Rubber Powder/LLDPE Blend with LLDPE-graft-(Epoxydized Natural Rubber) Dual Compatibilizer. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 360-367	3.9	24
2	Synthesis and characterization of solid-phase graft copolymer of polypropylene with styrene and maleic anhydride. <i>Journal of Applied Polymer Science</i> , 2000 , 78, 2482-2487	2.9	40
1	Mechanism of adhesion of polyurethane/polymethacrylate simultaneous interpenetrating networks adhesives to polymer substrates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994 , 32, 817-823	2.6	25