

Hongwei Bai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9540049/publications.pdf>

Version: 2024-02-01

227
papers

11,715
citations

23544

58
h-index

38368

95
g-index

227
all docs

227
docs citations

227
times ranked

8207
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress on the morphological control of conductive network in conductive polymer composites and the use as electroactive multifunctional materials. <i>Progress in Polymer Science</i> , 2014, 39, 627-655.	11.8	553
2	Realizing the enhancement of interfacial interaction in semicrystalline polymer/filler composites via interfacial crystallization. <i>Progress in Polymer Science</i> , 2012, 37, 1425-1455.	11.8	355
3	Compatibilization of Immiscible Poly(propylene)/Polystyrene Blends Using Clay. <i>Macromolecular Rapid Communications</i> , 2003, 24, 231-235.	2.0	292
4	New Understanding in Tuning Toughness of β -Polypropylene: The Role of β -Nucleated Crystalline Morphology. <i>Macromolecules</i> , 2009, 42, 9325-9331.	2.2	274
5	Water-induced shape memory effect of graphene oxide reinforced polyvinyl alcohol nanocomposites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2240-2249.	5.2	261
6	Tailoring Impact Toughness of Poly(<i>l</i> -lactide)/Poly(μ -caprolactone) (PLLA/PCL) Blends by Controlling Crystallization of PLLA Matrix. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 897-905.	4.0	218
7	Influence of Annealing on Microstructure and Mechanical Properties of Isotactic Polypropylene with β -Phase Nucleating Agent. <i>Macromolecules</i> , 2009, 42, 6647-6655.	2.2	209
8	Control of Crystal Morphology in Poly(<i>l</i> -lactide) by Adding Nucleating Agent. <i>Macromolecules</i> , 2011, 44, 1233-1237.	2.2	203
9	Largely improved toughness of PP/EPDM blends by adding nano-SiO ₂ particles. <i>Polymer</i> , 2007, 48, 860-869.	1.8	190
10	A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. <i>Nanotechnology</i> , 2011, 22, 045704.	1.3	190
11	Kinetics-controlled compatibilization of immiscible polypropylene/polystyrene blends using nano-SiO ₂ particles. <i>Polymer</i> , 2004, 45, 1913-1922.	1.8	189
12	Study on the phase structures and toughening mechanism in PP/EPDM/SiO ₂ ternary composites. <i>Polymer</i> , 2006, 47, 2106-2115.	1.8	179
13	Direct Formation of Nanohybrid Shish-Kebab in the Injection Molded Bar of Polyethylene/Multiwalled Carbon Nanotubes Composite. <i>Macromolecules</i> , 2009, 42, 7016-7023.	2.2	159
14	Stereocomplex formation of high-molecular-weight polylactide: A low temperature approach. <i>Polymer</i> , 2012, 53, 5449-5454.	1.8	150
15	Significantly Improving Oxygen Barrier Properties of Polylactide via Constructing Parallel-Aligned Shish-Kebab-Like Crystals with Well-Interlocked Boundaries. <i>Biomacromolecules</i> , 2014, 15, 1507-1514.	2.6	147
16	Recent Advances in Processing of Stereocomplex- α -Type Polylactide. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700454.	2.0	139
17	Toughening of poly(<i>l</i> -lactide) with poly(μ -caprolactone): Combined effects of matrix crystallization and impact modifier particle size. <i>Polymer</i> , 2013, 54, 5257-5266.	1.8	129
18	New insight on the annealing induced microstructural changes and their roles in the toughening of β -form polypropylene. <i>Polymer</i> , 2011, 52, 2351-2360.	1.8	128

#	ARTICLE	IF	CITATIONS
19	Formation of Shish-Kebabs in Injection-Molded Poly(L-lactic acid) by Application of an Intense Flow Field. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6774-6784.	4.0	128
20	Remarkably Enhanced Impact Toughness and Heat Resistance of poly(L-Lactide)/Thermoplastic Polyurethane Blends by Constructing Stereocomplex Crystallites in the Matrix. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 111-120.	3.2	123
21	Enhancing mechanical performance of polylactide by tailoring crystal morphology and lamellae orientation with the aid of nucleating agent. <i>Polymer</i> , 2014, 55, 6924-6934.	1.8	122
22	Highly Sensitive, Ultrastretchable Strain Sensors Prepared by Pumping Hybrid Fillers of Carbon Nanotubes/Cellulose Nanocrystal into Electrospun Polyurethane Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12968-12977.	4.0	122
23	Improving impact toughness of polylactide/poly(ether)urethane blends via designing the phase morphology assisted by hydrophilic silica nanoparticles. <i>Polymer</i> , 2014, 55, 1593-1600.	1.8	120
24	Preparation and properties of chitosan nanocomposites with nanofillers of different dimensions. <i>Polymer Degradation and Stability</i> , 2009, 94, 124-131.	2.7	117
25	Selective localization of multi-walled carbon nanotubes in thermoplastic elastomer blends: An effective method for tunable resistivity strain sensing behavior. <i>Composites Science and Technology</i> , 2014, 92, 16-26.	3.8	116
26	The preparation of high performance and conductive poly (vinyl alcohol)/graphene nanocomposite via reducing graphite oxide with sodium hydrosulfite. <i>Composites Science and Technology</i> , 2011, 71, 1266-1270.	3.8	113
27	Facile one-step preparation of robust hydrophobic cotton fabrics by covalent bonding polyhedral oligomeric silsesquioxane for ultrafast oil/water separation. <i>Chemical Engineering Journal</i> , 2020, 379, 122391.	6.6	107
28	Shish-kebab of polyolefin by melt manipulation strategy in injection-molding: A convenience pathway from fundament to application. <i>Polymer</i> , 2008, 49, 4745-4755.	1.8	105
29	The interplay of thermodynamics and shear on the dispersion of polymer nanocomposite. <i>Polymer</i> , 2004, 45, 7953-7960.	1.8	97
30	Toward Supertough and Heat-Resistant Stereocomplex-Type Polylactide/Elastomer Blends with Impressive Melt Stability via <i>in Situ</i> Formation of Graft Copolymer during One-Pot Reactive Melt Blending. <i>Macromolecules</i> , 2019, 52, 1718-1730.	2.2	94
31	Formation of Conductive Networks with Both Segregated and Double-Percolated Characteristic in Conductive Polymer Composites with Balanced Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6835-6844.	4.0	92
32	Polyethylene toughened by rigid inorganic particles. <i>Polymer Engineering and Science</i> , 1992, 32, 94-97.	1.5	89
33	Interfacial crystallization enhanced interfacial interaction of Poly (butylene succinate)/ramie fiber biocomposites using dopamine as a modifier. <i>Composites Science and Technology</i> , 2014, 91, 22-29.	3.8	89
34	Facile preparation of rapidly electro-active shape memory thermoplastic polyurethane/polylactide blends via phase morphology control and incorporation of conductive fillers. <i>Polymer</i> , 2017, 114, 28-35.	1.8	89
35	Selective localization of titanium dioxide nanoparticles at the interface and its effect on the impact toughness of poly(L-lactide)/poly(ether)urethane blends. <i>EXPRESS Polymer Letters</i> , 2013, 7, 261-271.	1.1	87
36	Microfibrillated cellulose-reinforced bio-based poly(propylene carbonate) with dual shape memory and self-healing properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20393-20401.	5.2	84

#	ARTICLE	IF	CITATIONS
37	Fabrication of PLA/CNC/CNT conductive composites for high electromagnetic interference shielding based on Pickering emulsions method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105558.	3.8	83
38	Observation of Shear-Induced Hybrid Shish Kebab in the Injection Molded Bars of Linear Polyethylene Containing Inorganic Whiskers. <i>Macromolecules</i> , 2007, 40, 8533-8536.	2.2	82
39	Selective localization of multi-walled carbon nanotubes in bi-component biodegradable polyester blend for rapid electroactive shape memory performance. <i>Composites Science and Technology</i> , 2016, 125, 38-46.	3.8	82
40	Surface modifications of boron nitride nanosheets for poly(vinylidene fluoride) based film capacitors: advantages of edge-hydroxylation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7664-7674.	5.2	82
41	Anisotropic multilayer conductive networks in carbon nanotubes filled polyethylene/polypropylene blends obtained through high speed thin wall injection molding. <i>Polymer</i> , 2013, 54, 6425-6436.	1.8	81
42	Enhanced shape memory property of polylactide/thermoplastic poly(ether)urethane composites via carbon black self-networking induced co-continuous structure. <i>Composites Science and Technology</i> , 2017, 139, 8-16.	3.8	80
43	Superior Reinforcement in Melt-Spun Polyethylene/Multiwalled Carbon Nanotube Fiber through Formation of a Shish-Kebab Structure. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10693-10702.	1.2	79
44	The hierarchy structure and orientation of high density polyethylene obtained via dynamic packing injection molding. <i>Polymer</i> , 2006, 47, 6857-6867.	1.8	78
45	Shear induced fiber orientation, fiber breakage and matrix molecular orientation in long glass fiber reinforced polypropylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3169-3176.	2.6	76
46	Enhancing the melt stability of polylactide stereocomplexes using a solid-state cross-linking strategy during a melt-blending process. <i>Polymer Chemistry</i> , 2014, 5, 5985-5993.	1.9	76
47	Dependence of mechanical properties on β -form content and crystalline morphology for β -nucleated isotactic polypropylene. <i>Polymers for Advanced Technologies</i> , 2011, 22, 2044-2054.	1.6	74
48	Preparation of high performance conductive polymer fibres from double percolated structure. <i>Journal of Materials Chemistry</i> , 2011, 21, 6401.	6.7	71
49	Control of the hierarchical structure of polymer articles via α -structuring-processing. <i>Progress in Polymer Science</i> , 2014, 39, 891-920.	11.8	71
50	Ultra-high-performance electrospun polylactide membranes with excellent oil/water separation ability via interfacial stereocomplex crystallization. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19729-19737.	5.2	67
51	Tensile properties in the oriented blends of high-density polyethylene and isotactic polypropylene obtained by dynamic packing injection molding. <i>Polymer</i> , 2005, 46, 3190-3198.	1.8	66
52	Vibration-induced change of crystal structure in isotactic polypropylene and its improved mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2385-2390.	2.4	64
53	Synergistic toughening effects of nucleating agent and ethylene-octene copolymer on polypropylene. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3270-3280.	1.3	64
54	Brittle-Ductile Transition and Toughening Mechanism in POM/TPU/CaCO ₃ Ternary Composites. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 41-48.	1.7	63

#	ARTICLE	IF	CITATIONS
55	Synergistic toughening of polypropylene random copolymer at low temperature: $\hat{\nu}^2$ -Modification and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7052-7059.	2.6	63
56	Shear-induced change of exfoliation and orientation in polypropylene/montmorillonite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 1-10.	2.4	62
57	Controlled Vertically Aligned Structures in Polymer Composites: Natural Inspiration, Structural Processing, and Functional Application. <i>Advanced Materials</i> , 2021, 33, e2103495.	11.1	62
58	Simultaneous the thermodynamics favorable compatibility and morphology to achieve excellent comprehensive mechanics in PLA/OBC blend. <i>Polymer</i> , 2014, 55, 6409-6417.	1.8	61
59	Dependence of impact strength on the fracture propagation direction in dynamic packing injection molded PP/EPDM blends. <i>Polymer</i> , 2003, 44, 4261-4271.	1.8	59
60	Functionalized multi-walled carbon nanotubes improve nonisothermal crystallization of poly(ethylene terephthalate). <i>Polymer Testing</i> , 2008, 27, 179-188.	2.3	58
61	A promising alternative to conventional polyethylene with poly(propylene carbonate) reinforced by graphene oxide nanosheets. <i>Journal of Materials Chemistry</i> , 2011, 21, 17627.	6.7	58
62	Largely enhanced crystallization of semi-crystalline polymer on the surface of glass fiber by using graphene oxide as a modifier. <i>Polymer</i> , 2013, 54, 303-309.	1.8	57
63	The effect of surface modification of glass fiber on the performance of poly(lactic acid) composites: Graphene oxide vs. silane coupling agents. <i>Applied Surface Science</i> , 2018, 435, 1046-1056.	3.1	56
64	Hierarchical structure of injection-molded bars of HDPE/MWCNTs composites with novel nanohybrid shish-kebab. <i>Polymer</i> , 2010, 51, 774-782.	1.8	55
65	Powder metallurgy inspired low-temperature fabrication of high-performance stereocomplexed polylactide products with good optical transparency. <i>Scientific Reports</i> , 2016, 6, 20260.	1.6	55
66	Molecular dynamics simulations of orientation induced interfacial enhancement between single walled carbon nanotube and aromatic polymers chains. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 155-165.	3.8	54
67	Towards high-performance poly(lactide)/elastomer blends with tunable interfacial adhesion and matrix crystallization via constructing stereocomplex crystallites at the interface. <i>RSC Advances</i> , 2014, 4, 49374-49385.	1.7	52
68	Hierarchical structure and unique impact behavior of polypropylene/ethylene-octene copolymer blends as obtained via dynamic packing injection molding. <i>Polymer</i> , 2013, 54, 3392-3401.	1.8	51
69	Fabrication of well-controlled porous foams of graphene oxide modified poly(propylene-carbonate) using supercritical carbon dioxide and its potential tissue engineering applications. <i>Journal of Supercritical Fluids</i> , 2013, 73, 1-9.	1.6	51
70	One-step alkyl-modification on boron nitride nanosheets for polypropylene nanocomposites with enhanced thermal conductivity and ultra-low dielectric loss. <i>Composites Science and Technology</i> , 2021, 208, 108756.	3.8	51
71	Synthesis of Janus POSS star polymer and exploring its compatibilization behavior for PLLA/PCL polymer blends. <i>Polymer</i> , 2018, 136, 84-91.	1.8	50
72	Fabrication of superhydrophilic and underwater superoleophobic membranes for fast and effective oil/water separation with excellent durability. <i>Journal of Membrane Science</i> , 2021, 620, 118898.	4.1	50

#	ARTICLE	IF	CITATIONS
73	Constructing stereocomplex structures at the interface for remarkably accelerating matrix crystallization and enhancing the mechanical properties of poly(<i>l</i> -lactide)/multi-walled carbon nanotube nanocomposites. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13835-13847.	5.2	49
74	Mechanical properties of polypropylene composites reinforced by hydrolyzed and microfibrillated Kevlar fibers. <i>Composites Science and Technology</i> , 2018, 163, 141-150.	3.8	49
75	Effect of homopolymer poly(vinyl acetate) on compatibility and mechanical properties of poly(propylene carbonate)/poly(lactic acid) blends. <i>EXPRESS Polymer Letters</i> , 2012, 6, 860-870.	1.1	48
76	Toward environment-friendly composites of poly(propylene carbonate) reinforced with cellulose nanocrystals. <i>Composites Science and Technology</i> , 2013, 78, 63-68.	3.8	48
77	Effects of coupling agents on the impact fracture behaviors of T-ZnOw/PA6 composites. <i>Composites Science and Technology</i> , 2008, 68, 1338-1347.	3.8	47
78	Effect of annealing on the microstructure and mechanical properties of polypropylene with oriented shish-kebab structure. <i>Polymer International</i> , 2012, 61, 252-258.	1.6	47
79	Low-Temperature Sintering of Stereocomplex-Type Polylactide Nascent Powder: Effect of Crystallinity. <i>Macromolecules</i> , 2017, 50, 7611-7619.	2.2	47
80	Influences of Coagulation Conditions on the Structure and Properties of Regenerated Cellulose Filaments via Wet-Spinning in LiOH/Urea Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4056-4067.	3.2	47
81	A comparison study of high shear force and compatibilizer on the phase morphologies and properties of polypropylene/polylactide (PP/PLA) blends. <i>Polymer</i> , 2018, 154, 119-127.	1.8	47
82	Crystal morphology and tensile properties of LLDPE containing PP fibers as obtained via dynamic packing injection molding. <i>Polymer</i> , 2006, 47, 7115-7122.	1.8	45
83	Combined effect of interfacial strength and fiber orientation on mechanical performance of short Kevlar fiber reinforced olefin block copolymer. <i>Composites Science and Technology</i> , 2015, 108, 23-31.	3.8	45
84	Deep insight into the key role of carbon black self-networking in the formation of co-continuous-like morphology in polylactide/poly(ether)urethane blends. <i>Polymer</i> , 2016, 82, 11-21.	1.8	45
85	Polypropylene Injection Molded Part with Novel Macroscopic Bamboo-like Bionic Structure. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9994-10001.	1.2	44
86	Preparation of Polylactide/Poly(ether)urethane Blends with Excellent Electro-actuated Shape Memory via Incorporating Carbon Black and Carbon Nanotubes Hybrids Fillers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 1175-1186.	2.0	44
87	Ductile-brittle-transition phenomenon in polypropylene/ethylene-propylene-diene rubber blends obtained by dynamic packing injection molding: A new understanding of the rubber-toughening mechanism. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2086-2097.	2.4	42
88	Effects of nucleating agents on microstructure and fracture toughness of poly(propylene)/ethylene-propylene-diene terpolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 46-59.	2.4	42
89	Exploring temperature dependence of the toughening behavior of β -nucleated impact polypropylene copolymer. <i>Polymer</i> , 2012, 53, 1783-1790.	1.8	42
90	Property reinforcement of poly(propylene carbonate) by simultaneous incorporation of poly(lactic acid) and carbon nanotubes. <i>Composites Science and Technology</i> , 2018, 163, 141-150.	3.8	42

#	ARTICLE	IF	CITATIONS
91	Matrix crystallization induced simultaneous enhancement of electrical conductivity and mechanical performance in poly(l-lactide)/multiwalled carbon nanotubes (PLLA/MWCNTs) nanocomposites. <i>Composites Science and Technology</i> , 2014, 102, 20-27.	3.8	42
92	Toward High-Performance Poly(l-lactide) Fibers via Tailoring Crystallization with the Aid of Fibrillar Nucleating Agent. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3939-3947.	3.2	41
93	Impact toughness of polypropylene/glass fiber composites: Interplay between intrinsic toughening and extrinsic toughening. <i>Composites Part B: Engineering</i> , 2016, 92, 413-419.	5.9	41
94	Design of high-performance poly(l-lactide)/elastomer blends through anchoring carbon nanotubes at the interface with the aid of stereocomplex crystallization. <i>Polymer</i> , 2017, 108, 38-49.	1.8	41
95	Mechanically reinforced chitosan/cellulose nanocrystals composites with good transparency and biocompatibility. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 61-69.	2.0	40
96	Nonisothermal crystallization behaviors of polypropylene with $\hat{1}\pm/\hat{1}^2$ nucleating agents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1853-1867.	2.4	39
97	Achieving all-poly lactide fibers with significantly enhanced heat resistance and tensile strength via in situ formation of nanofibrillized stereocomplex poly lactide. <i>Polymer</i> , 2019, 166, 13-20.	1.8	39
98	Spectroscopic Evidence of Melting of Ordered Structures in the Aged Glassy Poly(l-lactide). <i>Macromolecules</i> , 2010, 43, 1702-1705.	2.2	38
99	Formation of new electric double percolation via carbon black induced co-continuous like morphology. <i>RSC Advances</i> , 2014, 4, 37193.	1.7	38
100	Morphology and internal structure control over PLA microspheres by compounding PLLA and PDLA and effects on drug release behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 105-112.	2.5	38
101	Epitaxy growth and directed crystallization of high-density polyethylene in the oriented blends with isotactic polypropylene. <i>Polymer</i> , 2005, 46, 5258-5267.	1.8	37
102	Effect of nucleating agent on the brittle-ductile transition behavior of polypropylene/ethylene-octene copolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 577-588.	2.4	37
103	Transcrystalline formation and properties of polypropylene on the surface of ramie fiber as induced by shear or dopamine modification. <i>Polymer</i> , 2014, 55, 3045-3053.	1.8	37
104	Progresses in Manufacturing Techniques of Lithium-Ion Battery Separators in China. <i>Chinese Journal of Chemistry</i> , 2019, 37, 1207-1215.	2.6	37
105	Origin of various lamellar orientations in high-density polyethylene/isotactic polypropylene blends achieved via dynamic packing injection molding: bulk crystallization vs. epitaxy. <i>Polymer</i> , 2005, 46, 819-825.	1.8	36
106	Annealing-Induced Oriented Crystallization and Its Influence on the Mechanical Responses in the Melt-Spun Monofilament of Poly(l-lactide). <i>Macromolecules</i> , 2010, 43, 1156-1158.	2.2	36
107	Shear-induced epitaxial crystallization in injection-molded bars of high-density polyethylene/isotactic polypropylene blends. <i>Polymer</i> , 2007, 48, 4529-4536.	1.8	35
108	Shear enhanced interfacial interaction between carbon nanotubes and polyethylene and formation of nanohybrid shish-kebabs. <i>Polymer</i> , 2008, 49, 4925-4929.	1.8	35

#	ARTICLE	IF	CITATIONS
109	Unique clay orientation in the injection-molded bar of isotactic polypropylene/clay nanocomposite. <i>Polymer</i> , 2006, 47, 7103-7110.	1.8	34
110	Confine Clay in an Alternating Multilayered Structure through Injection Molding: A Simple and Efficient Route to Improve Barrier Performance of Polymeric Materials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10178-10189.	4.0	34
111	Stereocomplex-type polylactide with remarkably enhanced melt-processability and electrical performance via incorporating multifunctional carbon black. <i>Polymer</i> , 2020, 188, 122136.	1.8	34
112	Largely enhanced energy density of polypropylene based nanocomposites via synergistic hybrid fillers and high shear extrusion assisted dispersion. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 134-144.	3.8	33
113	Orientation and Epitaxy in the Injection-Molded Bars of Linear Low-Density Polyethylene/Isotactic Polypropylene Blends: An Infrared Dichroism Measurement. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7423-7429.	1.2	32
114	Towards polylactide/core-shell rubber blends with balanced stiffness and toughness via the formation of rubber particle network with the aid of stereocomplex crystallites. <i>Polymer</i> , 2018, 159, 23-31.	1.8	32
115	Largely improved toughness of polypropylene/long glass fiber composites by $\hat{\Gamma}^2$ -modification and annealing. <i>Composites Science and Technology</i> , 2014, 96, 56-62.	3.8	31
116	Strong and conductive double-network graphene/PVA gel. <i>RSC Advances</i> , 2014, 4, 39588.	1.7	31
117	A promising strategy for fabricating high-performance stereocomplex-type polylactide products via carbon nanotubes-assisted low-temperature sintering. <i>Polymer</i> , 2019, 162, 50-57.	1.8	30
118	Improved dielectric and energy storage properties of polypropylene by adding hybrid fillers and high-speed extrusion. <i>Polymer</i> , 2021, 214, 123348.	1.8	30
119	Hierarchy structure in injection molded polypropylene/ethylene $\hat{\Gamma}$ octane copolymer blends. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2252-2259.	1.3	29
120	Enhancement of $\hat{\Gamma}^2$ -nucleated crystallization in polypropylene random copolymer via adding isotactic polypropylene. <i>Polymer</i> , 2012, 53, 4861-4870.	1.8	29
121	The combined effect of reactive and high-shear extrusion on the phase morphologies and properties of PLA/OBC/EGMA ternary blends. <i>Polymer</i> , 2019, 169, 66-73.	1.8	29
122	Effect of stretching on the mechanical properties in melt-spun poly(butylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (succinate)/n 383-392.	5.1	28
123	Simultaneously reinforcing and toughening of polylactide/carbon fiber composites via adding small amount of soft poly(ether)urethane. <i>Composites Science and Technology</i> , 2016, 127, 54-61.	3.8	28
124	Manipulating the Filler Network Structure and Properties of Polylactide/Carbon Black Nanocomposites with the Aid of Stereocomplex Crystallites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4232-4240.	1.5	28
125	Annealing induced microstructure and fracture resistance changes in isotactic polypropylene/ethylene $\hat{\Gamma}$ octene copolymer blends with and without $\hat{\Gamma}^2$ $\hat{\Gamma}$ phase nucleating agent. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2108-2120.	2.4	27
126	Effect of molecular weight on the properties of poly(butylene succinate). <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 953-960.	2.0	27

#	ARTICLE	IF	CITATIONS
127	High mechanical reinforcing efficiency of layered poly(vinyl alcohol) @ graphene oxide nanocomposites. <i>Nanocomposites</i> , 2015, 1, 89-95.	2.2	27
128	Synergetic effects of a matrix crystalline structure and chain mobility on the low temperature toughness of polypropylene/ethylene@octene copolymer blends. <i>RSC Advances</i> , 2015, 5, 54488-54496.	1.7	27
129	A generalizable strategy toward highly tough and heat-resistant stereocomplex-type polylactide/elastomer blends with substantially enhanced melt processability. <i>Polymer</i> , 2021, 224, 123736.	1.8	27
130	Facilitating the formation of nanohybrid shish kebab structure in helical polymer systems by using carbon nanotube bundles. <i>Polymer</i> , 2012, 53, 4553-4559.	1.8	26
131	In situ micro and nano fibrillar reinforced elastomer composites based on polypropylene (PP)/olefinic block copolymer (OBC). <i>Composites Science and Technology</i> , 2015, 115, 34-42.	3.8	26
132	Stereocomplex crystallites induce simultaneous enhancement in impact toughness and heat resistance of injection-molded polylactide/polyurethane blends. <i>RSC Advances</i> , 2016, 6, 17008-17015.	1.7	26
133	Stereocomplex-type polylactide with bimodal melting temperature distribution: Toward desirable melt-processability and thermomechanical performance. <i>Polymer</i> , 2019, 169, 21-28.	1.8	26
134	Facilely assess the soluble behaviour of the β -nucleating agent by gradient temperature field for the construction of heterogeneous crystalline-frameworks in iPP. <i>Soft Matter</i> , 2016, 12, 594-601.	1.2	25
135	Simultaneously improving toughness and UV-resistance of polylactide/titanium dioxide nanocomposites by adding poly(ether)urethane. <i>Polymer Degradation and Stability</i> , 2017, 143, 136-144.	2.7	25
136	Detecting crystallization structure evolution of polypropylene injection-molded bar induced by nucleating agent. <i>Polymer Engineering and Science</i> , 2008, 48, 1532-1541.	1.5	24
137	Achieving excellent dispersion and electrical conductivity of olefin block copolymer/MWCNTs composites efficiently via high-shear processing. <i>Polymer</i> , 2017, 123, 65-72.	1.8	24
138	Pursuit of the correlation between yield strength and crystallinity in sintering-molded UHMWPE. <i>Polymer</i> , 2021, 215, 123352.	1.8	24
139	Shear-Induced Morphological Change in PP/LLDPE Blend. <i>Macromolecular Rapid Communications</i> , 2002, 23, 749-752.	2.0	23
140	Tensile fracture behaviors of T-ZnOw/polyamide 6 composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 512, 109-116.	2.6	23
141	Tailor-Made Dispersion and Distribution of Stereocomplex Crystallites in Poly(L-lactide)/Elastomer Blends toward Largely Enhanced Crystallization Rate and Impact Toughness. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6271-6279.	1.2	23
142	Nucleating agent induced impact fracture behavior change in PP/POE blend. <i>Polymer Bulletin</i> , 2009, 62, 405-419.	1.7	22
143	Toward all stereocomplex-type polylactide with outstanding melt stability and crystallizability via solid-state transesterification between enantiomeric poly(L-lactide) and poly(D-lactide). <i>Polymer</i> , 2020, 205, 122850.	1.8	22
144	The effect of cellulose molecular weight on internal structure and properties of regenerated cellulose fibers as spun from the alkali/urea aqueous system. <i>Polymer</i> , 2021, 215, 123379.	1.8	22

#	ARTICLE	IF	CITATIONS
145	A comparative study of polypropylene nucleated by individual and compounding nucleating agents. I. Melting and isothermal crystallization. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1624-1637.	1.3	21
146	Observation of strong nano-effect via tuning distributed architecture of graphene oxide in poly(propylene carbonate). <i>Nanotechnology</i> , 2014, 25, 025702.	1.3	21
147	Enhanced mechanical properties of olefin block copolymer by adding a quaternary ammonium salt functionalized graphene oxide. <i>RSC Advances</i> , 2016, 6, 54785-54792.	1.7	21
148	Thermo-conductive phase change materials with binary fillers of core-shell-like distribution. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 144, 106326.	3.8	21
149	Multishape and Temperature Memory Effects by Strong Physical Confinement in Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	20
150	Microfibrillated cellulose reinforced bio-based poly(propylene carbonate) with dual-responsive shape memory properties. <i>RSC Advances</i> , 2016, 6, 7560-7567.	1.7	20
151	Effect of thermal annealing on crystal structure and properties of PLLA/PCL blend. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	20
152	The effect of filler permittivity on the dielectric properties of polymer-based composites. <i>Composites Science and Technology</i> , 2022, 222, 109342.	3.8	20
153	Adding EPDM Rubber Makes Poly(propylene) Brittle. <i>Macromolecular Materials and Engineering</i> , 2002, 287, 391.	1.7	19
154	Study on the $\hat{\iota}^2$ to $\hat{\iota}_{\pm}$ transformation of PP/POE blends with $\hat{\iota}^2$ -phase nucleating agent during the tensile deformation process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 531-538.	2.6	19
155	Combined effects of stretching and nanofillers on the crystalline structure and mechanical properties of polypropylene and single-walled carbon nanotube composite fibers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 245-254.	2.0	19
156	The effect of hard block content on the orientation and mechanical properties of olefin block copolymer films as obtained via melt stretching. <i>RSC Advances</i> , 2015, 5, 82535-82543.	1.7	19
157	Achieving a low electrical percolation threshold and superior mechanical performance in poly($\langle\text{sc}\rangle\text{l}\langle/\text{sc}\rangle$ -lactide)/thermoplastic polyurethane/carbon nanotubes composites via tailoring phase morphology with the aid of stereocomplex crystallites. <i>RSC Advances</i> , 2017, 7, 11076-11084.	1.7	19
158	Optically transparent poly(methyl methacrylate) with largely enhanced mechanical and shape memory properties via in-situ formation of polylactide stereocomplex in the matrix. <i>Polymer</i> , 2017, 126, 231-239.	1.8	19
159	Low-temperature sintering of stereocomplex-type polylactide nascent powder: The role of optical purity in directing the chain interdiffusion and cocrystallization across the particle interfaces. <i>Polymer</i> , 2018, 150, 169-176.	1.8	19
160	High impact performance induced by a synergistic effect of heteroepitaxy and oriented layer-unoriented layer alternated structure in iPP/HDPE injection molded part. <i>Polymer</i> , 2019, 175, 206-214.	1.8	19
161	Mixing of Racemic Poly(L-lactide)/Poly(D-lactide) Blend with Miscible Poly(D,L-lactide): Toward All Stereocomplex-type Polylactide with Strikingly Enhanced SC Crystallizability. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1470-1480.	2.0	19
162	Enhancing crystallization and mechanical properties of poly(lactic acid)/milled glass fiber composites via self-assembled nanoscale interfacial structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 117, 219-229.	3.8	18

#	ARTICLE	IF	CITATIONS
163	Towards high-performance polypropylene and its random copolymer: Insight into toughening mechanism of supercritical carbon dioxide assisted annealing. <i>Journal of Supercritical Fluids</i> , 2014, 87, 83-92.	1.6	17
164	Morphology Evolution of Polymer Blends under Intense Shear During High Speed Thin-Wall Injection Molding. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6257-6270.	1.2	17
165	Preparation of Polylactide Composite with Excellent Flame Retardance and Improved Mechanical Properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 1385-1393.	2.0	17
166	Simultaneous improvements of thermal stability and mechanical properties of poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Science (English Edition), 2014, 32, 1724-1736.	2.0	16
167	Effect of melting temperature on interfacial interaction and mechanical properties of polypropylene (PP) fiber reinforced olefin block copolymers (OBCs). <i>RSC Advances</i> , 2014, 4, 45234-45243.	1.7	16
168	Toward uniform pore-size distribution and high porosity of isotactic polypropylene microporous membrane by adding a small amount of ultrafine full-vulcanized powder rubber. <i>Polymer</i> , 2016, 103, 405-414.	1.8	16
169	Enhanced thermal conductivity and wear resistance of polytetrafluoroethylene via incorporating hexagonal boron nitride and alumina particles. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51497.	1.3	16
170	Crystallization and melting behaviors of maleic anhydride grafted poly(propylene) nucleated by an aryl amide derivative. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 563-570.	2.0	15
171	Simultaneous enhancement of electrical conductivity and impact strength via formation of carbon black filler network in PP/EPDM Blends. <i>Polymers for Advanced Technologies</i> , 2011, 22, 857-862.	1.6	15
172	Synergistic effects of γ -modification and impact polypropylene copolymer on brittle ductile transition of polypropylene random copolymer. <i>Journal of Applied Polymer Science</i> , 2013, 129, 3613-3622.	1.3	15
173	The effect of DBP of carbon black on the dynamic self-assembly in a polymer melt. <i>RSC Advances</i> , 2016, 6, 24843-24852.	1.7	15
174	Recent Progress on the Confinement, Assembly, and Relaxation of Inorganic Functional Fillers in Polymer Matrix during Processing. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700444.	2.0	15
175	Manipulating the Strength-Toughness Balance of Poly(<i>l</i> -lactide) (PLLA) via Introducing Ductile Poly(ϵ -caprolactone) (PCL) and Strong Shear Flow. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1000-1009.	1.8	15
176	Low-temperature sintering of stereocomplex-type polylactide nascent powder: The role of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 210, 123031.	1.8	15
177	Fracture studies of poly(propylene)/elastomer blend with γ -form nucleating agent. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 513-514, 22-31.	2.6	14
178	High speed injection molding of high density polyethylene " Effects of injection speed on structure and properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 456-464.	2.0	14
179	Flow-induced epitaxial growth of high density polyethylene in its blends with low crystallizable polypropylene copolymer. <i>Polymer</i> , 2011, 52, 3655-3660.	1.8	14
180	Tunable liquid sensing performance of conducting carbon nanotube-polyethylene composites with a porous segregated structure. <i>RSC Advances</i> , 2013, 3, 19802.	1.7	14

#	ARTICLE	IF	CITATIONS
181	The different effect of reduced graphene oxide and graphene oxide on the performance of chitosan by using homogenous fillers. <i>RSC Advances</i> , 2016, 6, 34153-34158.	1.7	14
182	Low-temperature Sintering of Stereocomplex-type Polylactide Nascent Powder: From Compression Molding to Injection Molding. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800178.	1.7	14
183	Highly thermo-conductive but electrically insulating filament via a volume-confinement self-assembled strategy for thermoelectric wearables. <i>Chemical Engineering Journal</i> , 2021, 421, 127764.	6.6	14
184	Toughening of Poly(L-Lactic Acid) by Annealing: The Effect of Crystal Morphologies and Modifications. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 184-196.	0.4	13
185	Combined effect of nucleating agent and processing melt temperature on the toughness of impact polypropylene copolymer. <i>Polymer International</i> , 2013, 62, 172-178.	1.6	13
186	Preparation and Properties of Ultrathin Flexible Expanded Graphite Film via Adding Natural Rubber. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 806-814.	2.0	13
187	Synthesis and phase behavior of polyurethanes end-capped with fluorinated phosphatidylcholine head groups. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 615-626.	2.0	12
188	Preparation and properties of poly(ethylene terephthalate)/inorganic whiskers composites. <i>Journal of Applied Polymer Science</i> , 2011, 121, 604-611.	1.3	12
189	Stretching induced interfacial crystallization and property enhancement of poly(L-lactide)/single-walled carbon nanotubes fibers. <i>Composites Science and Technology</i> , 2013, 83, 47-53.	3.8	12
190	Improving Impact Toughness of Polylactide/Ethylene-co-vinyl-acetate Blends via Adding Fumed Silica Nanoparticles: Effects of Specific Surface Area-dependent Interfacial Selective Distribution of Silica. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1040-1049.	2.0	12
191	Tailoring toughness of injection molded bar of polypropylene random copolymer through processing melt temperature. <i>Polymer International</i> , 2011, 60, 1705-1714.	1.6	11
192	Exploring interfacial enhancement in polystyrene/multiwalled carbon nanotube monofilament induced by stretching. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 61, 84-90.	3.8	11
193	Processing condition induced structural evolution in the alternating multi-layer structure during high speed thin-wall injection molding. <i>Polymer</i> , 2016, 99, 49-58.	1.8	11
194	Morphology and mechanical properties of poly(ethyleneoctene) copolymers obtained by dynamic packing injection molding. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 603-612.	2.0	10
195	Significant reinforcement of poly(propylene carbonate): Nanostructured polymer composites of poly(propylene carbonate)/poly(methyl methacrylate) via a supercritical carbon dioxide route. <i>Journal of Supercritical Fluids</i> , 2013, 82, 200-205.	1.6	10
196	Brittle-ductile transition behavior of poly(ethylene terephthalate)/poly(ethylene-octene) blend: the roles of compatibility and test temperature. <i>Journal of Materials Science</i> , 2014, 49, 1794-1804.	1.7	10
197	Reduction of graphene oxide with the presence of polypropylene micro-latex for facile preparation of polypropylene/graphene nanosheet composites. <i>Colloid and Polymer Science</i> , 2015, 293, 1495-1503.	1.0	10
198	Transcrystallization of poly(L-lactic acid) on the surface of reduced graphene oxide fibers. <i>RSC Advances</i> , 2016, 6, 100090-100097.	1.7	10

#	ARTICLE	IF	CITATIONS
199	Aramid Nanofiber Membranes for High-Performance and Multifunctional Materials. ACS Applied Nano Materials, 2022, 5, 747-758.	2.4	10
200	Size distribution and anisotropy of the minor phase droplets in polypropylene/ethylene-octene copolymer blends: Effects of shear and component miscibility. Chinese Journal of Polymer Science (English Edition), 2014, 32, 9-20.	2.0	9
201	Toughening of polycarbonate through reactive melt blending: Effect of hydroxyl content and viscosity of hydroxyl-terminated polydimethylsiloxane. Chinese Journal of Polymer Science (English Edition) Tj ETQq1 1 0.78414 rgB5 /Overlo	2.0	9
202	Polymorphic structures phase diagram of shear-induced isotactic polypropylene/carbon fiber cylindrites. Materials and Design, 2018, 150, 40-48.	3.3	9
203	Remarkably Improved Impact Fracture Toughness of Isotactic Polypropylene via Combining the Effects of Shear Layer-Spherulites Layer Alternated Structure and Thermal Annealing. Industrial & Engineering Chemistry Research, 2019, 58, 15069-15078.	1.8	9
204	Importance of Low-Temperature Melt-Mixing on the Construction of Stereocomplex Crystallites with Superior Nucleation Efficiency in Asymmetric Poly(L-lactide)/Poly(D-lactide) Blends. Macromolecular Materials and Engineering, 2021, 306, 2100091.	1.7	9
205	Molecular dynamics studies of interfacial crystallization behaviors in polyethylene/carbon nanotube composites. RSC Advances, 2015, 5, 102219-102227.	1.7	8
206	Largely enhanced mechanical properties and heat distortion temperature of Î ² -nucleated isotactic polypropylene by adding ultrafine full-vulcanized powdered rubber. RSC Advances, 2015, 5, 62797-62804.	1.7	8
207	Largely reinforced polyurethane via simultaneous incorporation of poly(lactic acid) and multiwalled carbon nanotubes. RSC Advances, 2015, 5, 30912-30919.	1.7	8
208	The effect of high-temperature annealing on thermal properties and morphology of polyethylene pipes prepared by rotational shear. Polymer, 2020, 204, 122770.	1.8	8
209	Substantially Enhanced Stereocomplex Crystallization of Poly(L-lactide)/Poly(D-lactide) Blends by the Formation of Multi-Arm Stereo-Block Copolymers. Crystals, 2022, 12, 210.	1.0	8
210	In situ formation of polypropylene (PP) fibrils in the olefinic block copolymer (OBC): effect of viscosity ratio and OBC block architecture. RSC Advances, 2015, 5, 85442-85445.	1.7	7
211	Significant toughness improvement in iPP/PLLA/EGMA blend by introducing dicumyl peroxide as the morphology governor. Colloid and Polymer Science, 2018, 296, 31-39.	1.0	7
212	Addressing the challenge of fabricating a high content regenerated cellulose/nanomaterial composite: the magical effect of urea. Green Chemistry, 2020, 22, 4121-4127.	4.6	7
213	Stereocomplex Crystallization Induced Significant Improvement in Transparency and Stiffness-Toughness Performance of Core-Shell Rubber Nanoparticles Toughened Poly(L-lactide) Blends. Macromolecular Materials and Engineering, 2021, 306, 2100021.	1.7	7
214	TOUGHENING AND STIFFENING EFFECTS OF T-ZnOw WHISKERS ON POLYSTYRENE. Chinese Journal of Polymer Science (English Edition), 2008, 26, 285.	2.0	7
215	Thermal annealing-induced superior toughness in polypropylene/poly(ethylene glycol) blend and its structural origin. Polymer Engineering and Science, 2013, 53, 2053-2060.	1.5	6
216	The influence of blend composition and filler on the microstructure, crystallization, and mechanical behavior of polymer blends with multilayered structures. Nanocomposites, 2018, 4, 178-189.	2.2	6

#	ARTICLE	IF	CITATIONS
217	Controlling the selective distribution of hydrophilic silica nanoparticles in polylactide/ethylene-co-vinyl-acetate blends via tailoring the OH surface concentration of silica. Composites Communications, 2021, 25, 100737.	3.3	6
218	Effect of supercritical carbon dioxide treatment on structure and mechanical properties of Î²-nucleated polypropylene processed at different temperatures. Polymer Testing, 2017, 60, 211-219.	2.3	5
219	A facile melt coating approach to fabricate macroscopic segregated polymer/carbon nanotube conductive composites with balanced properties. Polymer Composites, 2018, 39, 841-847.	2.3	5
220	Effect of functionalized SWCNTs on microstructure of PPâ€‹i>g</i>â€‹MA/OMMT/fâ€‹SWCNTs nanocomposite. Journal of Applied Polymer Science, 2009, 112, 2413-2424.	1.3	4
221	Alternating multilayer structure of polyethylene/polypropylene blends obtained through injection molding. Journal of Applied Polymer Science, 2012, 124, 4452-4456.	1.3	3
222	Comparison of the toughening behavior for poly(ethylene terephthalate) with spherulitic or ellipsoid elastomer-particles. Journal of Polymer Research, 2014, 21, 1.	1.2	3
223	Manipulating Matrix Crystallization and Impact Toughness of Polylactide/Elastomer Blends via Tailoring Size and Packing Density of Stereocomplex Crystallites Formed at the Interface. Macromolecular Materials and Engineering, 2022, 307, 2100698.	1.7	3
224	Enhanced fracture energy during deformation through the construction of an alternating multilayered structure for polyolefin blends. Polymer International, 2018, 67, 1094-1102.	1.6	2
225	PREPARATION AND MECHANICAL PROPERTIES OF T-ZnOw/PS COMPOSITES. Chinese Journal of Polymer Science (English Edition), 2009, 27, 173.	2.0	2
226	The effect of annealing time on morphology, mechanical properties, and thermal conductivity of HDPE pipes produced by rotational shear. Materials Today Communications, 2022, 31, 103321.	0.9	1
227	The processing of alternating multi-layered functional polymer composites through high speed thin-wall injection molding. AIP Conference Proceedings, 2019, , .	0.3	0