

Hongwei Bai

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9540049/hongwei-bai-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

225
papers

9,538
citations

54
h-index

86
g-index

227
ext. papers

10,614
ext. citations

5.3
avg, IF

6.36
L-index

#	Paper	IF	Citations
225	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	29.6	460
224	Realizing the enhancement of interfacial interaction in semicrystalline polymer/filler composites via interfacial crystallization. <i>Progress in Polymer Science</i> , 2012 , 37, 1425-1455	29.6	295
223	Compatibilization of Immiscible Poly(propylene)/Polystyrene Blends Using Clay. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 231-235	4.8	279
222	New Understanding in Tuning Toughness of EPolypropylene: The Role of ENucleated Crystalline Morphology. <i>Macromolecules</i> , 2009 , 42, 9325-9331	5.5	241
221	Water-induced shape memory effect of graphene oxide reinforced polyvinyl alcohol nanocomposites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2240-2249	13	235
220	Influence of Annealing on Microstructure and Mechanical Properties of Isotactic Polypropylene with EPhase Nucleating Agent. <i>Macromolecules</i> , 2009 , 42, 6647-6655	5.5	193
219	Tailoring impact toughness of poly(L-lactide)/poly(Ecaprolactone) (PLLA/PCL) blends by controlling crystallization of PLLA matrix. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 897-905	9.5	188
218	Largely improved toughness of PP/EPDM blends by adding nano-SiO ₂ particles. <i>Polymer</i> , 2007 , 48, 860-869	3.9	178
217	Kinetics-controlled compatibilization of immiscible polypropylene/polystyrene blends using nano-SiO ₂ particles. <i>Polymer</i> , 2004 , 45, 1913-1922	3.9	174
216	Control of Crystal Morphology in Poly(l-lactide) by Adding Nucleating Agent. <i>Macromolecules</i> , 2011 , 44, 1233-1237	5.5	171
215	A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. <i>Nanotechnology</i> , 2011 , 22, 045704	3.4	167
214	Study on the phase structures and toughening mechanism in PP/EPDM/SiO ₂ ternary composites. <i>Polymer</i> , 2006 , 47, 2106-2115	3.9	162
213	Direct Formation of Nanohybrid Shish-Kebab in the Injection Molded Bar of Polyethylene/Multiwalled Carbon Nanotubes Composite. <i>Macromolecules</i> , 2009 , 42, 7016-7023	5.5	143
212	Stereocomplex formation of high-molecular-weight polylactide: A low temperature approach. <i>Polymer</i> , 2012 , 53, 5449-5454	3.9	131
211	Significantly improving oxygen barrier properties of polylactide via constructing parallel-aligned shish-kebab-like crystals with well-interlocked boundaries. <i>Biomacromolecules</i> , 2014 , 15, 1507-14	6.9	121
210	New insight on the annealing induced microstructural changes and their roles in the toughening of EForm polypropylene. <i>Polymer</i> , 2011 , 52, 2351-2360	3.9	113
209	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, 6774-84	9.5	110

208	Preparation and properties of chitosan nanocomposites with nanofillers of different dimensions. <i>Polymer Degradation and Stability</i> , 2009 , 94, 124-131	4.7	104
207	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	8.3	100
206	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	3.9	99
205	Toughening of poly(L-lactide) with poly(ε-caprolactone): Combined effects of matrix crystallization and impact modifier particle size. <i>Polymer</i> , 2013 , 54, 5257-5266	3.9	99
204	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	3.9	98
203	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	8.6	94
202	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	8.6	93
201	Recent Advances in Processing of Stereocomplex-Type Polylactide. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700454	4.8	91
200	The interplay of thermodynamics and shear on the dispersion of polymer nanocomposite. <i>Polymer</i> , 2004 , 45, 7953-7960	3.9	88
199	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	9.5	87
198	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	3.9	87
197	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	5.5	80
196	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, 6835-44	9.5	77
195	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, 10693-702	3.4	76
194	Polyethylene toughened by rigid inorganic particles. <i>Polymer Engineering and Science</i> , 1992 , 32, 94-97	2.3	76
193	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	3.4	75
192	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	8.6	73
191	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	13	69

190	The hierarchy structure and orientation of high density polyethylene obtained via dynamic packing injection molding. <i>Polymer</i> , 2006 , 47, 6857-6867	3.9	68
189	Facile preparation of rapidly electro-active shape memory thermoplastic polyurethane/poly lactide blends via phase morphology control and incorporation of conductive fillers. <i>Polymer</i> , 2017 , 114, 28-35	3.9	66
188	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	4.9	65
187	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	3.9	65
186	Preparation of high performance conductive polymer fibres from double percolated structure. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6401		65
185	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	3.2	64
184	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	3.9	63
183	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	8.6	62
182	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	5.3	61
181	Synergistic toughening effects of nucleating agent and ethylene β tene copolymer on polypropylene. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3270-3280	2.9	61
180	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	2.6	61
179	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	8.6	60
178	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	2.6	60
177	Toward Supertough and Heat-Resistant Stereocomplex-Type Polylactide/Elastomer Blends with Impressive Melt Stability via in Situ Formation of Graft Copolymer during One-Pot Reactive Melt Blending. <i>Macromolecules</i> , 2019 , 52, 1718-1730	5.5	56
176	Synergistic toughening of polypropylene random copolymer at low temperature: β Modification and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7052-7059	5.3	56
175	Functionalized multi-walled carbon nanotubes improve nonisothermal crystallization of poly(ethylene terephthalate). <i>Polymer Testing</i> , 2008 , 27, 179-188	4.5	56
174	Brittle-Ductile Transition and Toughening Mechanism in POM/TPU/CaCO ₃ Ternary Composites. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 41-48	3.9	55
173	Control of the hierarchical structure of polymer articles via β structuring β processing. <i>Progress in Polymer Science</i> , 2014 , 39, 891-920	29.6	54

172	Hierarchical structure of injection-molded bars of HDPE/MWCNTs composites with novel nanohybrid shishRebab. <i>Polymer</i> , 2010 , 51, 774-782	3.9	54
171	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	13	52
170	Dependence of impact strength on the fracture propagation direction in dynamic packing injection molded PP/EPDM blends. <i>Polymer</i> , 2003 , 44, 4261-4271	3.9	52
169	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	3.9	51
168	A promising alternative to conventional polyethylene with poly(propylene carbonate) reinforced by graphene oxide nanosheets. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17627		51
167	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	14.7	51
166	Ultrahigh-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	13	50
165	Simultaneous the thermodynamics favorable compatibility and morphology to achieve excellent comprehensive mechanics in PLA/OBC blend. <i>Polymer</i> , 2014 , 55, 6409-6417	3.9	49
164	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	4.2	46
163	Powder metallurgy inspired low-temperature fabrication of high-performance stereocomplexed polylactide products with good optical transparency. <i>Scientific Reports</i> , 2016 , 6, 20260	4.9	45
162	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	3.9	44
161	Constructing stereocomplex structures at the interface for remarkably accelerating matrix crystallization and enhancing the mechanical properties of poly(L-lactide)/multi-walled carbon nanotube nanocomposites. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13835-13847	13	44
160	Effects of coupling agents on the impact fracture behaviors of T-ZnOw/PA6 composites. <i>Composites Science and Technology</i> , 2008 , 68, 1338-1347	8.6	44
159	Towards high-performance poly(L-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	3.7	43
158	Toward environment-friendly composites of poly(propylene carbonate) reinforced with cellulose nanocrystals. <i>Composites Science and Technology</i> , 2013 , 78, 63-68	8.6	43
157	Synthesis of Janus POSS star polymer and exploring its compatibilization behavior for PLLA/PCL polymer blends. <i>Polymer</i> , 2018 , 136, 84-91	3.9	42
156	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	2.6	42
155	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	8.4	41

154	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	8.6	41
153	Crystal morphology and tensile properties of LLDPE containing PP fibers as obtained via dynamic packing injection molding. <i>Polymer</i> , 2006 , 47, 7115-7122	3.9	41
152	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	6.7	41
151	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	8.4	40
150	Polypropylene injection molded part with novel macroscopic bamboo-like bionic structure. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9994-10001	3.4	40
149	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	3.4	40
148	Effect of annealing on the microstructure and mechanical properties of polypropylene with oriented shish-kebab structure. <i>Polymer International</i> , 2012 , 61, 252-258	3.3	39
147	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	8.6	38
146	Exploring temperature dependence of the toughening behavior of nucleated impact polypropylene copolymer. <i>Polymer</i> , 2012 , 53, 1783-1790	3.9	38
145	Property reinforcement of poly(propylene carbonate) by simultaneous incorporation of poly(lactic acid) and multiwalled carbon nanotubes. <i>Composites Science and Technology</i> , 2013 , 87, 196-203	8.6	38
144	Nonisothermal crystallization behaviors of polypropylene with nucleating agents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1853-1867	2.6	37
143	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	2.6	37
142	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	3.9	36
141	Mechanical properties of polypropylene composites reinforced by hydrolyzed and microfibrillated Kevlar fibers. <i>Composites Science and Technology</i> , 2018 , 163, 141-150	8.6	35
140	Formation of new electric double percolation via carbon black induced co-continuous like morphology. <i>RSC Advances</i> , 2014 , 4, 37193	3.7	35
139	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	3.9	35
138	Low-Temperature Sintering of Stereocomplex-Type Polylactide Nascent Powder: Effect of Crystallinity. <i>Macromolecules</i> , 2017 , 50, 7611-7619	5.5	34
137	Mechanically reinforced chitosan/cellulose nanocrystals composites with good transparency and biocompatibility. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 61-69	3.5	34

136	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	3.9	34
135	Shear enhanced interfacial interaction between carbon nanotubes and polyethylene and formation of nanohybrid shish kebabs. <i>Polymer</i> , 2008 , 49, 4925-4929	3.9	34
134	Epitaxy growth and directed crystallization of high-density polyethylene in the oriented blends with isotactic polypropylene. <i>Polymer</i> , 2005 , 46, 5258-5267	3.9	34
133	Spectroscopic Evidence of Melting of Ordered Structures in the Aged Glassy Poly(l-lactide). <i>Macromolecules</i> , 2010 , 43, 1702-1705	5.5	33
132	Effect of nucleating agent on the brittle ductile transition behavior of polypropylene/ethyleneoctene copolymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 577-588	2.6	33
131	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	3.5	32
130	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	5.5	32
129	Shear-induced epitaxial crystallization in injection-molded bars of high-density polyethylene/isotactic polypropylene blends. <i>Polymer</i> , 2007 , 48, 4529-4536	3.9	32
128	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	3.9	32
127	Impact toughness of polypropylene/glass fiber composites: Interplay between intrinsic toughening and extrinsic toughening. <i>Composites Part B: Engineering</i> , 2016 , 92, 413-419	10	31
126	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	3.9	31
125	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	8.3	30
124	Largely improved toughness of polypropylene/long glass fiber composites by modification and annealing. <i>Composites Science and Technology</i> , 2014 , 96, 56-62	8.6	30
123	Unique clay orientation in the injection-molded bar of isotactic polypropylene/clay nanocomposite. <i>Polymer</i> , 2006 , 47, 7103-7110	3.9	30
122	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	8.3	30
121	Strong and conductive double-network graphene/PVA gel. <i>RSC Advances</i> , 2014 , 4, 39588	3.7	29
120	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, 7423-9	3.4	27
119	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, 10178-89	9.5	26

118	Achieving all-poly lactide fibers with significantly enhanced heat resistance and tensile strength via in situ formation of nanofibrillated stereocomplex poly lactide. <i>Polymer</i> , 2019 , 166, 13-20	3.9	25
117	Facilitating the formation of nanohybrid shish kebab structure in helical polymer systems by using carbon nanotube bundles. <i>Polymer</i> , 2012 , 53, 4553-4559	3.9	25
116	Hierarchy structure in injection molded polypropylene/ethylene octane copolymer blends. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 2252-2259	2.9	25
115	High mechanical reinforcing efficiency of layered poly(vinyl alcohol) /graphene oxide nanocomposites. <i>Nanocomposites</i> , 2015 , 1, 89-95	3.4	24
114	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	3.7	23
113	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	8.6	23
112	Facilely assess the soluble behaviour of the nucleating agent by gradient temperature field for the construction of heterogeneous crystalline-frameworks in iPP. <i>Soft Matter</i> , 2016 , 12, 594-601	3.6	23
111	Annealing induced microstructure and fracture resistance changes in isotactic polypropylene/ethylene-octene copolymer blends with and without phase nucleating agent. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 2108-2120	2.6	23
110	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	3.9	23
109	Progresses in Manufacturing Techniques of Lithium-Ion Battery Separators in China. <i>Chinese Journal of Chemistry</i> , 2019 , 37, 1207-1215	4.9	22
108	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	3.9	22
107	Effect of stretching on the mechanical properties in melt-spun poly(butylene succinate)/microfibrillated cellulose (MFC) nanocomposites. <i>Carbohydrate Polymers</i> , 2016 , 140, 383-92	10.3	22
106	Nucleating agent induced impact fracture behavior change in PP/POE blend. <i>Polymer Bulletin</i> , 2009 , 62, 405-419	2.4	22
105	Shear-Induced Morphological Change in PP/LLDPE Blend. <i>Macromolecular Rapid Communications</i> , 2002 , 23, 749-752	4.8	22
104	Stereocomplex-type polylactide with remarkably enhanced melt-processability and electrical performance via incorporating multifunctional carbon black. <i>Polymer</i> , 2020 , 188, 122136	3.9	22
103	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	8.6	21
102	Effect of molecular weight on the properties of poly(butylene succinate). <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 953-960	3.5	21
101	Achieving excellent dispersion and electrical conductivity of olefin block copolymer/MWCNTs composites efficiently via high-shear processing. <i>Polymer</i> , 2017 , 123, 65-72	3.9	21

100	Observation of strong nano-effect via tuning distributed architecture of graphene oxide in poly(propylene carbonate). <i>Nanotechnology</i> , 2014 , 25, 025702	3.4	21
99	Enhancement of Nucleated crystallization in polypropylene random copolymer via adding isotactic polypropylene. <i>Polymer</i> , 2012 , 53, 4861-4870	3.9	21
98	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	3.9	21
97	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	8.4	20
96	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	3.8	20
95	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	3.7	20
94	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	5.3	20
93	Detecting crystallization structure evolution of polypropylene injection-molded bar induced by nucleating agent. <i>Polymer Engineering and Science</i> , 2008 , 48, 1532-1541	2.3	20
92	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	4.7	19
91	Adding EPDM Rubber Makes Poly(propylene) Brittle. <i>Macromolecular Materials and Engineering</i> , 2002 , 287, 391	3.9	19
90	Microfibrillated cellulose reinforced bio-based poly(propylene carbonate) with dual-responsive shape memory properties. <i>RSC Advances</i> , 2016 , 6, 7560-7567	3.7	18
89	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	3.5	18
88	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	3.9	17
87	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	6	17
86	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	4.2	17
85	Study on the α to β transformation of PP/POE blends with β phase nucleating agent during the tensile deformation process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 531-538	5.3	17
84	Stereocomplex-type polylactide with bimodal melting temperature distribution: Toward desirable melt-processability and thermomechanical performance. <i>Polymer</i> , 2019 , 169, 21-28	3.9	17
83	Enhanced mechanical properties of olefin block copolymer by adding a quaternary ammonium salt functionalized graphene oxide. <i>RSC Advances</i> , 2016 , 6, 54785-54792	3.7	16

82	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	3.7	16
81	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	3.9	16
80	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	2.9	16
79	Achieving a low electrical percolation threshold and superior mechanical performance in poly(L-lactide)/thermoplastic polyurethane/carbon nanotubes composites via tailoring phase morphology with the aid of stereocomplex crystallites. <i>RSC Advances</i> , 2017 , 7, 11076-11084	3.7	15
78	Simultaneous improvements of thermal stability and mechanical properties of poly(propylene carbonate) via incorporation of environmental-friendly polydopamine. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 1724-1736	3.5	15
77	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	3.2	15
76	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	8.6	15
75	Multishape and Temperature Memory Effects by Strong Physical Confinement in Poly(propylene carbonate)/Graphene Oxide Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 11064-11073	3.4	15
74	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	9.6	15
73	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	3.4	14
72	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	3.9	14
71	Flow-induced epitaxial growth of high density polyethylene in its blends with low crystallizable polypropylene copolymer. <i>Polymer</i> , 2011 , 52, 3655-3660	3.9	14
70	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	8.4	14
69	Improved dielectric and energy storage properties of polypropylene by adding hybrid fillers and high-speed extrusion. <i>Polymer</i> , 2021 , 214, 123348	3.9	14
68	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	4.8	13
67	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	3.5	13
66	Combined effect of nucleating agent and processing melt temperature on the toughness of impact polypropylene copolymer. <i>Polymer International</i> , 2013 , 62, 172-178	3.3	13
65	Tunable liquid sensing performance of conducting carbon nanotube/polyethylene composites with a porous segregated structure. <i>RSC Advances</i> , 2013 , 3, 19802	3.7	13

64	Fracture studies of poly(propylene)/elastomer blend with Eform nucleating agent. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 22-31	5.3	13
63	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	4.1	13
62	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	3.9	13
61	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	3.4	12
60	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	3.7	12
59	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	3.9	12
58	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	8.6	12
57	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	3.5	12
56	Synergistic effects of Emodification and impact polypropylene copolymer on brittle-ductile transition of polypropylene random copolymer. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 3613-3622	2.9	11
55	Tailoring toughness of injection molded bar of polypropylene random copolymer through processing melt temperature. <i>Polymer International</i> , 2011 , 60, 1705-1714	3.3	11
54	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	3.9	11
53	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	3.5	10
52	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	2.4	10
51	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	4.2	10
50	Preparation and properties of poly(ethylene terephthalate)/inorganic whiskers composites. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 604-611	2.9	10
49	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	3.7	10
48	The effect of DBP of carbon black on the dynamic self-assembly in a polymer melt. <i>RSC Advances</i> , 2016 , 6, 24843-24852	3.7	10
47	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	8.4	9

46	Size distribution and anisotropy of the minor phase droplets in polypropylene/ethylene-octene copolymer blends: Effects of shear and component miscibility. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 9-20	3.5	9
45	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	3.5	9
44	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	3.5	9
43	Low-Temperature Sintering of Stereocomplex-Type Polylactide Nascent Powder: From Compression Molding to Injection Molding. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800178	3.9	9
42	Low-temperature sintering of stereocomplex-type polylactide nascent powder: The role of poly(methyl methacrylate) in tailoring the interfacial crystallization between powder particles. <i>Polymer</i> , 2020 , 210, 123031	3.9	8
41	Molecular dynamics studies of interfacial crystallization behaviors in polyethylene/carbon nanotube composites. <i>RSC Advances</i> , 2015 , 5, 102219-102227	3.7	8
40	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	1.4	8
39	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	3.9	8
38	Pursuit of the correlation between yield strength and crystallinity in sintering-molded UHMWPE. <i>Polymer</i> , 2021 , 215, 123352	3.9	8
37	Controlled Vertically Aligned Structures in Polymer Composites: Natural Inspiration, Structural Processing, and Functional Application. <i>Advanced Materials</i> , 2021 , e2103495	2.4	8
36	Largely enhanced mechanical properties and heat distortion temperature of [nucleated isotactic polypropylene by adding ultrafine full-vulcanized powdered rubber. <i>RSC Advances</i> , 2015 , 5, 62797-62804	3.7	7
35	Largely reinforced polyurethane via simultaneous incorporation of poly(lactic acid) and multiwalled carbon nanotubes. <i>RSC Advances</i> , 2015 , 5, 30912-30919	3.7	7
34	Transcrystallization of poly(L-lactic acid) on the surface of reduced graphene oxide fibers. <i>RSC Advances</i> , 2016 , 6, 100090-100097	3.7	7
33	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	4.3	7
32	TOUGHENING AND STIFFENING EFFECTS OF T-ZnOw WHISKERS ON POLYSTYRENE. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2008 , 26, 285	3.5	7
31	Manipulating the Strength-Toughness Balance of Poly(l-lactide) (PLLA) via Introducing Ductile Poly(ε-caprolactone) (PCL) and Strong Shear Flow. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1000-1009	3.9	7
30	In situ formation of polypropylene (PP) fibrils in the olefinic block copolymer (OBC): effect of viscosity ratio and OBC block architecture. <i>RSC Advances</i> , 2015 , 5, 85442-85445	3.7	6
29	Toughening of polycarbonate through reactive melt blending: Effect of hydroxyl content and viscosity of hydroxyl-terminated polydimethylsiloxane. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 823-833	3.5	6

28	Thermal annealing-induced superior toughness in polypropylene/poly(ethylene glycol) blend and its structural origin. <i>Polymer Engineering and Science</i> , 2013 , 53, 2053-2060	2.3	6
27	Effect of thermal annealing on crystal structure and properties of PLLA/PCL blend. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	6
26	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	8.4	6
25	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	3.9	5
24	Significant toughness improvement in iPP/PLLA/EGMA blend by introducing dicumyl peroxide as the morphology governor. <i>Colloid and Polymer Science</i> , 2018 , 296, 31-39	2.4	5
23	Effect of supercritical carbon dioxide treatment on structure and mechanical properties of Ehnucleated polypropylene processed at different temperatures. <i>Polymer Testing</i> , 2017 , 60, 211-219	4.5	4
22	Addressing the challenge of fabricating a high content regenerated cellulose/nanomaterial composite: the magical effect of urea. <i>Green Chemistry</i> , 2020 , 22, 4121-4127	10	4
21	Polymorphic structures phase diagram of shear-induced isotactic polypropylene/carbon fiber cylindrites. <i>Materials and Design</i> , 2018 , 150, 40-48	8.1	4
20	A facile melt coating approach to fabricate macroscopic segregated polymer/carbon nanotube conductive composites with balanced properties. <i>Polymer Composites</i> , 2018 , 39, 841-847	3	4
19	Remarkably Improved Impact Fracture Toughness of Isotactic Polypropylene via Combining the Effects of Shear Layer-Spherulites Layer Alternated Structure and Thermal Annealing. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15069-15078	3.9	4
18	Effect of functionalized SWCNTs on microstructure of PP-g-MA/OMMT/f-SWCNTs nanocomposite. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 2413-2424	2.9	4
17	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> , 1	3.5	4
16	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	2.9	4
15	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. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100091	3.9	3
14	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	14.7	3
13	Enhanced fracture energy during deformation through the construction of an alternating multilayered structure for polyolefin blends. <i>Polymer International</i> , 2018 , 67, 1094-1102	3.3	2
12	Comparison of the toughening behavior for poly(ethylene terephthalate) with spherulitic or ellipsoid elastomer-particles. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	2
11	Alternating multilayer structure of polyethylene/polypropylene blends obtained through injection molding. <i>Journal of Applied Polymer Science</i> , 2012 , 124, n/a-n/a	2.9	2

10	The effect of high-temperature annealing on thermal properties and morphology of polyethylene pipes prepared by rotational shear. <i>Polymer</i> , 2020 , 204, 122770	3.9	2
9	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	3.5	2
8	Stereocomplex Crystallization Induced Significant Improvement in Transparency and Stiffness/Toughness Performance of Core-Shell Rubber Nanoparticles Toughened Poly(l-lactide) Blends. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100021	3.9	2
7	The effect of filler permittivity on the dielectric properties of polymer-based composites. <i>Composites Science and Technology</i> , 2022 , 222, 109342	8.6	2
6	Substantially Enhanced Stereocomplex Crystallization of Poly(L-lactide)/Poly(D-lactide) Blends by the Formation of Multi-Arm Stereo-Block Copolymers. <i>Crystals</i> , 2022 , 12, 210	2.3	1
5	Controlling the selective distribution of hydrophilic silica nanoparticles in polylactide/ethylene-co-vinyl-acetate blends via tailoring the OH surface concentration of silica. <i>Composites Communications</i> , 2021 , 25, 100737	6.7	1
4	The influence of blend composition and filler on the microstructure, crystallization, and mechanical behavior of polymer blends with multilayered structures. <i>Nanocomposites</i> , 2018 , 4, 178-189	3.4	1
3	para-Aramid Nanofiber Membranes for High-Performance and Multifunctional Materials. <i>ACS Applied Nano Materials</i> , 2022 , 5, 747-758	5.6	0
2	Manipulating Matrix Crystallization and Impact Toughness of Polylactide/Elastomer Blends Via Tailoring Size and Packing Density of Stereocomplex Crystallites Formed at the Interface. <i>Macromolecular Materials and Engineering</i> , 2100698	3.9	
1	The effect of annealing time on morphology, mechanical properties, and thermal conductivity of HDPE pipes produced by rotational shear. <i>Materials Today Communications</i> , 2022 , 31, 103321	2.5	