

Zong-Bao Wang

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77
papers

962
citations

17
h-index

27
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83
ext. papers

1,192
ext. citations

4.2
avg, IF

4.36
L-index

#	Paper	IF	Citations
77	Rhythmic Growth-Induced Ring-Banded Spherulites with Radial Periodic Variation of Thicknesses Grown from Poly(ϵ -caprolactone) Solution with Constant Concentration. <i>Macromolecules</i> , 2008 , 41, 7584-7595	5.5	73
76	Rhythmic Growth-Induced Concentric Ring-Banded Structures in Poly(ϵ -caprolactone) Solution-Casting Films Obtained at the Slow Solvent Evaporation Rate. <i>Macromolecules</i> , 2007 , 40, 4381-4385	5.5	65
75	Chitin nanocrystals grafted with poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their effects on thermal behavior of PHBV. <i>Carbohydrate Polymers</i> , 2012 , 87, 784-789	10.3	54
74	Twisting of Lamellar Crystals in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Ring-Banded Spherulites. <i>Macromolecules</i> , 2010 , 43, 4441-4444	5.5	50
73	Electrostatic adsorption method for preparing electrically conducting ultrahigh molecular weight polyethylene/graphene nanosheets composites with a segregated network. <i>Composites Science and Technology</i> , 2013 , 89, 180-185	8.6	48
72	Reduced graphene oxide enhances the crystallization and orientation of poly(ϵ -caprolactone). <i>Composites Science and Technology</i> , 2014 , 96, 63-70	8.6	39
71	Rhythmic Growth Combined with Lamellar Twisting Induces Poly(ethylene adipate) Nested Ring-Banded Structures.. <i>ACS Macro Letters</i> , 2012 , 1, 154-158	6.6	36
70	Crystallization behavior, thermal and mechanical properties of PHBV/graphene nanosheet composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 670-678	3.5	35
69	Tuning Radial Lamellar Packing and Orientation into Diverse Ring-Banded Spherulites: Effects of Structural Feature and Crystallization Condition. <i>Macromolecules</i> , 2014 , 47, 1783-1792	5.5	34
68	Anisotropically Fatigue-Resistant Hydrogels. <i>Advanced Materials</i> , 2021 , 33, e2102011	24	33
67	Structural evolution from shish-kebab to fibrillar crystals during hot-stretching process of gel spinning ultra-high molecular weight polyethylene fibers obtained from low concentration solution. <i>Polymer</i> , 2017 , 120, 244-254	3.9	25
66	Band-to-Nonband Transition into Unique Poly(ϵ -caprolactone) Crystals by Modulating the Interplay of Diffusion and Growth. <i>ACS Macro Letters</i> , 2012 , 1, 718-722	6.6	23
65	Noncovalent Method for Improving the Interaction between Reduced Graphene Oxide and Poly(ϵ -caprolactone). <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15824-15828	3.9	21
64	Synthesis and characterization of triblock copolymer PLA-b-PBT-b-PLA and its effect on the crystallization of PLA. <i>RSC Advances</i> , 2013 , 3, 18464	3.7	19
63	The influence of epitaxial crystallization on the mechanical properties of a high density polyethylene/reduced graphene oxide nanocomposite injection bar. <i>RSC Advances</i> , 2017 , 7, 21918-21925	3.7	18
62	Effects of a semi-bio-based triazine derivative on intumescent flame-retardant polypropylene. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 1259-1268	3.2	18
61	Facile fabrication of conductive ultrahigh molecular weight polyethylene fibers via mussel-inspired deposition. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 1030-1035	2.9	18

60	An in situ small-angle X-ray scattering study of the structural effects of temperature and draw ratio of the hot-drawing process on ultra-high molecular weight polyethylene fibers. <i>RSC Advances</i> , 2016 , 6, 51125-51134	3.7	17
59	Morphological Control of Polymer Spherulites via Manipulating Radial Lamellar Organization upon Evaporative Crystallization: A Mini Review. <i>Crystals</i> , 2017 , 7, 115	2.3	17
58	Ultra-strong gel-spun ultra-high molecular weight polyethylene fibers filled with chitin nanocrystals. <i>RSC Advances</i> , 2016 , 6, 20629-20636	3.7	15
57	High-density polyethylene crystals with double melting peaks induced by ultra-high-molecular-weight polyethylene fibre. <i>Royal Society Open Science</i> , 2018 , 5, 180394	3.3	14
56	Coupling between crystallization and evaporation dynamics: Periodically nonlinear growth into concentric ringed spherulites. <i>Polymer</i> , 2013 , 54, 6628-6635	3.9	14
55	In-situ investigation of multiple endothermic peaks in isomorphous poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with low HV content by synchrotron radiation. <i>Polymer</i> , 2019 , 169, 1-10	3.9	13
54	Effect of Gel Solution Concentration on the Structure and Properties of Gel-Spun Ultrahigh Molecular Weight Polyethylene Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8357-8363	3.9	13
53	The Influence of Epitaxial Crystallization on the Mechanical Properties of Polyamide 66/Reduced Graphene Oxide Nanocomposite Injection Bar. <i>Crystals</i> , 2017 , 7, 384	2.3	12
52	The influence of short chain branch on formation of shear induced crystals in bimodal polyethylene at high shear temperatures. <i>European Polymer Journal</i> , 2018 , 105, 359-369	5.2	12
51	Structural development of gel-spinning UHMWPE fibers through industrial hot-drawing process analyzed by small/wide-angle X-ray scattering. <i>Polymer Bulletin</i> , 2017 , 74, 721-736	2.4	12
50	Ultrastretchable, Highly Transparent, Self-Adhesive, and 3D-Printable Ionic Hydrogels for Multimode Tactical Sensing. <i>Chemistry of Materials</i> , 2021 , 33, 6731-6742	9.6	12
49	Dramatic Toughness Enhancement of Polycyclopentadiene Composites by Incorporating Low Amounts of Vinyl-Functionalized SiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4750-4757	3.9	10
48	The influence of short chain branch on formation of shish-kebab crystals in bimodal polyethylene under shear at high temperatures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 786-794	2.6	9
47	Multiple endothermic peaks resulted from different crystal structures in an isomorphous copolymer poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 1510-1522	3.5	9
46	Enhance understanding of rhythmic crystallization in confined evaporating polymer solution films: from environment to solution film and then to one period. <i>RSC Advances</i> , 2016 , 6, 45241-45249	3.7	9
45	Effect of epitaxial crystallization on the structural evolution of PCL/RGO nanocomposites during stretching by in-situ synchrotron radiation. <i>Polymer</i> , 2018 , 159, 106-115	3.9	9
44	Structural Effects of Residual Groups of Graphene Oxide on Poly(εCaprolactone)/Graphene Oxide Nanocomposite. <i>Crystals</i> , 2018 , 8, 270	2.3	8
43	Living lamellar crystal initiating polymerization and brittleness mechanism investigations based on crystallization during the ring-opening of cyclic butylene terephthalate oligomers. <i>Polymer Chemistry</i> , 2013 , 4, 1648	4.9	8

42	Solution crystallization behavior of linear and star-shaped poly(ethylene glycol)-b-poly(ϵ -caprolactone) block copolymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 1717-1724	3.5	8
41	The influence of chitin nanocrystals on structural evolution of ultra-high molecular weight polyethylene/chitin nanocrystal fibers in hot-drawing process. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 1373-1385	3.5	8
40	Epitaxial crystallization of precisely bromine-substituted polyethylene induced by carbon nanotubes and graphene. <i>RSC Advances</i> , 2017 , 7, 17640-17649	3.7	7
39	Nonbirefringent bands in thin films of a copolymer melt: rapid rhythmic crystal growth with an unusual crystal/melt interface. <i>CrystEngComm</i> , 2018 , 20, 2221-2226	3.3	7
38	Structural transformation from shish-kebab crystals to micro-fibrils through hot stretching process of gel-spun ultra-high molecular weight polyethylene fibers with high concentration solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 225-238	2.6	7
37	Synchronous architecture of ring-banded and non-ring-banded morphology within one spherulite based on in situ ring-opening polymerization of cyclic butylene terephthalate oligomers. <i>RSC Advances</i> , 2016 , 6, 94524-94530	3.7	7
36	Structural difference of gel-spun ultra-high molecular weight polyethylene fibers affected by cold drawing process. <i>Fibers and Polymers</i> , 2017 , 18, 549-554	2	6
35	Structural evolution of stretch deformed HDPE/RGO nanocomposites: An in-situ synchrotron SAXS and WAXD study. <i>Composites Science and Technology</i> , 2019 , 183, 107798	8.6	6
34	Crystallization and morphology of star-shaped polyethylenoxyde-b-polycaprolactone under high pressure carbon dioxide. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012 , 30, 623-631	3.5	6
33	Strong enhancement of the twisting frequency of achiral orthorhombic lamellae in poly(ϵ -caprolactone) banded spherulites via evaporative crystallization. <i>CrystEngComm</i> , 2017 , 19, 1210-1219	3.3	5
32	Uniaxial tensile deformation of microinjection molded PCL/SWCNTs nanocomposites: Effect of interfacial soft epitaxy on the structural evolution as studied by synchrotron SAXS and WAXD techniques. <i>Polymer</i> , 2020 , 198, 122526	3.9	5
31	The influence of short chain branch on formation of shear-induced crystals in bimodal polyethylene at low shear temperatures. <i>Polymer</i> , 2019 , 179, 121625	3.9	5
30	Melting behavior of polymorphic MDI/BD-block TPU investigated by using in-situ SAXS/WAXS and FTIR techniques. Hydrogen bonding formation causing the inhomogeneous melt. <i>Polymer Testing</i> , 2021 , 96, 107065	4.5	5
29	Structure and properties of gel-spun ultra-high molecular weight polyethylene fibers with high gel solution concentration. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 524-533	3.5	4
28	Correlation between polymerization of cyclic butylene terephthalate (CBT) and crystallization of polymerized CBT. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 1104-1113	3.5	4
27	Foaming of Poly(3-hydroxybutyrate- β -3-hydroxyvalerate) with Supercritical Carbon Dioxide: Foaming Performance and Crystallization Behavior. <i>ACS Omega</i> , 2020 , 5, 9839-9845	3.9	4
26	Effects of shear on epitaxial crystallization of poly(ϵ -caprolactone) on reduced graphene oxide.. <i>RSC Advances</i> , 2018 , 8, 6406-6413	3.7	4
25	Characterization of structural knot distributions in UHMWPE fibers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 606-615	3.5	4

24	Origin of the double melting peaks of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with a high HV content as revealed by in situ synchrotron WAXD/SAXS analyses. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1453-1461	2.6	4
23	Effect of Chitin Nanocrystals on the Formation of Shish-Kebab Crystals in Bimodal Polyethylene Injection Bar. <i>Polymer Science - Series A</i> , 2019 , 61, 627-634	1.2	3
22	Microbeam two-dimensional small-angle X-ray scattering investigating the effects of reduced graphene oxide on local microstructures of high-density polyethylene/reduced graphene oxide nanocomposite bars. <i>Royal Society Open Science</i> , 2019 , 6, 181866	3.3	3
21	Formation and evolution of shish-kebab structure during hot stretching in gel-spun ultra-high molecular weight polyethylene fibers with high concentration gel solution. <i>Polymer Crystallization</i> , 2019 , 2, e10060	0.9	3
20	Inter-spherulitic/inner-spherulitic localization of PBSU during crystallization of PVDF in PVDF/PBSU blend. <i>Journal of Polymer Science</i> , 2020 , 58, 1699-1706	2.4	3
19	A Synchrotron in situ X-ray Study on the Multiple Melting Behaviors of Isomorphous Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (P(HB-co-HV)) with Middle HV Content. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 1015-1024	3.5	3
18	Morphology of Poly(Ethylene Oxide)- b-Poly(?-Caprolactone) Spherulites Formed Under Compressed CO ₂ . <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 1137-1144	1.4	3
17	In Situ SAXS and WAXD Investigations of Polyamide 66/Reduced Graphene Oxide Nanocomposites During Uniaxial Deformation. <i>ACS Omega</i> , 2021 , 6, 11762-11771	3.9	3
16	Epitaxial Crystallization of Poly(ε-caprolactone) on Reduced Graphene Oxide at a Low Shear Rate by SAXS/WAXD Methods. <i>ACS Omega</i> , 2020 , 5, 31535-31542	3.9	2
15	Formation of well-organized, concentric-ringed spherulites of four-arm star symmetric PEO-b-PCL via confined evaporative crystallization. <i>CrystEngComm</i> , 2020 , 22, 7016-7024	3.3	2
14	The Influence of Soft-Epitaxial Crystallization on Polyamide 66/Carbon Nanotubes Composite Injection Bar. <i>Polymer Science - Series A</i> , 2019 , 61, 906-912	1.2	2
13	The Influence of Space Restriction on the Mechanical Properties of Isotactic Polypropylene/Reduced Graphene Oxide Nanocomposite Injection Bars. <i>Polymer Science - Series A</i> , 2018 , 60, 663-670	1.2	2
12	Eco-Friendly Strategy to Improve the Processibility and Properties of Poly(vinyl alcohol) Foams Based on a 3D Hydrogen-Bond Network. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20011-20021	3.9	1
11	Epitaxial Crystallization of Precisely Methyl-Substituted Polyethylene Induced by Carbon Nanotubes and Graphene. <i>Crystals</i> , 2018 , 8, 168	2.3	1
10	Polymorphic microstructure of MDI/BD-block polyurethane as determined by temperature-sensitive conformation variation. <i>Soft Matter</i> , 2021 , 17, 9447-9456	3.6	1
9	Dramatic toughness improvement of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by supercritical carbon dioxide-assisted annealing. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 3646-3654	3.2	1
8	Structural Evolution of Polyglycolide and Poly(glycolide-lactide) Fibers during the Heat-Setting Process. <i>Biomacromolecules</i> , 2021 , 22, 3342-3356	6.9	1
7	Structural Evolution of Polyglycolide and Poly(glycolide-lactide) Fibers during In Vitro Degradation with Different Heat-Setting Temperatures. <i>ACS Omega</i> , 2021 , 6, 29254-29266	3.9	0

6	The Influence of Ethyl Branch on Formation of Shish-Kebab Crystals in Bimodal Polyethylene under Shear at Low Temperature. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 1050-1058	3.5	○
5	Role of the heat treatment of partial melt recrystallization method on microstructure change and toughness of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) [P(HB-co-HV)]. <i>Polymer</i> , 2021 , 228, 123874	3.9	○
4	Shear-induced crystallization of unimodal/bimodal polyethylene at high temperatures affected by C4 short-branching. <i>Polymer</i> , 2021 , 233, 124203	3.9	○
3	Understanding of Growth Mechanism and Structure of Multilayer Thin Films via Layer-by-Layer Hydrogen Bonded Assembly from Polymer Brushes-Grafted Surface. <i>Nanoscience and Nanotechnology Letters</i> , 2020 , 12, 890-900	0.8	
2	Nano-Scale Pores are Formed between the Shish-Kebab Structures of Double-Mold Polyethylene by Supercritical Carbon Dioxide Foaming. <i>Polymer Science - Series A</i> , 2021 , 63, 664-671	1.2	
1	Coupling effects of boron nitride and heat treatment on crystallization, mechanical properties of poly (3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV). <i>Polymer</i> , 2022 , 252, 124967	3.9	