

Zong-Bao Wang

List of Publications by Year in Descending Order

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

77
papers

962
citations

17
h-index

27
g-index

83
ext. papers

1,192
ext. citations

4.2
avg, IF

4.36
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 77 | 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 | |
| 76 | 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 |
| 75 | Structural Evolution of Polyglycolide and Poly(glycolidelactide) Fibers during In Vitro Degradation with Different Heat-Setting Temperatures. <i>ACS Omega</i> , 2021 , 6, 29254-29266 | 3.9 | 0 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 | 0 |
| 70 | Anisotropically Fatigue-Resistant Hydrogels. <i>Advanced Materials</i> , 2021 , 33, e2102011 | 24 | 33 |
| 69 | 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 | 0 |
| 68 | Structural Evolution of Polyglycolide and Poly(glycolide-lactide) Fibers during the Heat-Setting Process. <i>Biomacromolecules</i> , 2021 , 22, 3342-3356 | 6.9 | 1 |
| 67 | 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 |
| 66 | Shear-induced crystallization of unimodal/bimodal polyethylene at high temperatures affected by C4 short-branching. <i>Polymer</i> , 2021 , 233, 124203 | 3.9 | 0 |
| 65 | 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 | |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |

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| 60 | Foaming of Poly(3-hydroxybutyrate-3-hydroxyvalerate) with Supercritical Carbon Dioxide: Foaming Performance and Crystallization Behavior. <i>ACS Omega</i> , 2020 , 5, 9839-9845 | 3.9 | 4 |
| 59 | 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 | |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | Nonbirefringent bands in thin films of a copolymer melt: rapid rhythmic crystal growth with an unusual crystal/helt interface. <i>CrystEngComm</i> , 2018 , 20, 2221-2226 | 3.3 | 7 |
| 43 | 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 |

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| 42 | 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 |
| 41 | Epitaxial Crystallization of Precisely Methyl-Substituted Polyethylene Induced by Carbon Nanotubes and Graphene. <i>Crystals</i> , 2018 , 8, 168 | 2.3 | 1 |
| 40 | Structural Effects of Residual Groups of Graphene Oxide on Poly(ϵ -Caprolactone)/Graphene Oxide Nanocomposite. <i>Crystals</i> , 2018 , 8, 270 | 2.3 | 8 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | Epitaxial crystallization of precisely bromine-substituted polyethylene induced by carbon nanotubes and graphene. <i>RSC Advances</i> , 2017 , 7, 17640-17649 | 3.7 | 7 |
| 33 | 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 |
| 32 | Dramatic Toughness Enhancement of Polydicyclopentadiene Composites by Incorporating Low Amounts of Vinyl-Functionalized SiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4750-4757 | 3.9 | 10 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Characterization of structural knot distributions in UHMWPE fibers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 606-615 | 3.5 | 4 |
| 25 | 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 |

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| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | Morphology of Poly(Ethylene Oxide)- <i>b</i> -Poly(ϵ -Caprolactone) Spherulites Formed Under Compressed CO ₂ . <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 1137-1144 | 1.4 | 3 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | Coupling between crystallization and evaporation dynamics: Periodically nonlinear growth into concentric ringed spherulites. <i>Polymer</i> , 2013 , 54, 6628-6635 | 3.9 | 14 |
| 11 | Solution crystallization behavior of linear and star-shaped poly(ethylene glycol)- <i>b</i> -poly(ϵ -caprolactone) block copolymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 1717-1724 | 3.5 | 8 |
| 10 | Synthesis and characterization of triblock copolymer PLA- <i>b</i> -PBT- <i>b</i> -PLA and its effect on the crystallization of PLA. <i>RSC Advances</i> , 2013 , 3, 18464 | 3.7 | 19 |
| 9 | 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 |
| 8 | 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 |
| 7 | Crystallization and morphology of star-shaped polyethylenoxyde- <i>b</i> -polycaprolactone under high pressure carbon dioxide. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012 , 30, 623-631 | 3.5 | 6 |

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| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | Twisting of Lamellar Crystals in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Ring-Banded Spherulites. <i>Macromolecules</i> , 2010 , 43, 4441-4444 | 5.5 | 50 |
| 2 | 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 |
| 1 | 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 |