

Yongzhong Bao

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69
papers

1,721
citations

24
h-index

40
g-index

71
ext. papers

2,069
ext. citations

4.8
avg. IF

4.95
L-index

#	Paper	IF	Citations
69	Temperature-Variable FTIR and Solid-State ¹³ C NMR Investigations on Crystalline Structure and Molecular Dynamics of Polymorphic Poly(l-lactide) and Poly(l-lactide)/Poly(d-lactide) Stereocomplex. <i>Macromolecules</i> , 2012 , 45, 189-197	5.5	160
68	Competitive stereocomplexation, homocrystallization, and polymorphic crystalline transition in poly(L-lactic acid)/poly(D-lactic acid) racemic blends: molecular weight effects. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6462-70	3.4	132
67	Core-shell structure, biodegradation, and drug release behavior of poly(lactic acid)/poly(ethylene glycol) block copolymer micelles tuned by macromolecular stereostructure. <i>Langmuir</i> , 2015 , 31, 1527-36 ⁴		102
66	Polymorphic Crystalline Structure and Crystal Morphology of Enantiomeric Poly(lactic acid) Blends Tailored by a Self-Assemblable Aryl Amide Nucleator. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2680-2688	8.3	83
65	Exclusive Stereocomplex Crystallization of Linear and Multiarm Star-Shaped High-Molecular-Weight Stereo Diblock Poly(lactic acid)s. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14270-9	3.4	71
64	Hydrophobic association mediated physical hydrogels with high strength and healing ability. <i>Polymer</i> , 2016 , 100, 60-68	3.9	59
63	Enhanced Nucleation and Crystallization of Poly(l-lactic acid) by Immiscible Blending with Poly(vinylidene fluoride). <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3148-3156	3.9	56
62	Nucleation Effects of Nucleobases on the Crystallization Kinetics of Poly(L-lactide). <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 670-679	3.9	53
61	Dual-Crosslink Physical Hydrogels with High Toughness Based on Synergistic Hydrogen Bonding and Hydrophobic Interactions. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700806	4.8	52
60	ABA-Type Thermoplastic Elastomers Composed of Poly(ε-caprolactone-co-δ-valerolactone) Soft Midblock and Polymorphic Poly(lactic acid) Hard End blocks. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 121-128	8.3	51
59	In situ formation and gelation mechanism of thermoresponsive stereocomplexed hydrogels upon mixing diblock and triblock poly(lactic acid)/poly(ethylene glycol) copolymers. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6471-80	3.4	48
58	Alternating poly(lactic acid)/poly(ethylene-co-butylene) supramolecular multiblock copolymers with tunable shape memory and self-healing properties. <i>Polymer Chemistry</i> , 2015 , 6, 5899-5910	4.9	47
57	Click chemistry synthesis, stereocomplex formation, and enhanced thermal properties of well-defined poly(L-lactic acid)-b-poly(D-lactic acid) stereo diblock copolymers. <i>Polymer Chemistry</i> , 2017 , 8, 1006-1016	4.9	43
56	Promoted Stereocomplex Crystallization in Supramolecular Stereoblock Copolymers of Enantiomeric Poly(Lactic Acid)s. <i>Crystal Growth and Design</i> , 2016 , 16, 1502-1511	3.5	41
55	Thermoresponsive physical hydrogels of poly(lactic acid)/poly(ethylene glycol) stereoblock copolymers tuned by stereostructure and hydrophobic block sequence. <i>Soft Matter</i> , 2016 , 12, 4628-37	3.6	41
54	Enhancement of Crystallizability and Control of Mechanical and Shape-Memory Properties for Amorphous Enantiopure Supramolecular Copolymers via Stereocomplexation. <i>Macromolecules</i> , 2015 , 48, 7872-7881	5.5	39
53	Preferential Formation of β-Form Crystals and Temperature-Dependent Polymorphic Structure in Supramolecular Poly(l-lactic acid) Bonded by Multiple Hydrogen Bonds. <i>Macromolecules</i> , 2017 , 50, 8619-8630	5.5	34

52	Heating and Annealing Induced Structural Reorganization and Embrittlement of Solution-Crystallized Poly(l-lactic acid). <i>Macromolecules</i> , 2014 , 47, 8126-8130	5.5	33
51	Preferential Stereocomplex Crystallization in Enantiomeric Blends of Cellulose Acetate-g-Poly(l-lactic acid)s with Comblike Topology. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12689-934	3.4	32
50	Programmable Reversible Shape Transformation of Hydrogels Based on Transient Structural Anisotropy. <i>Advanced Materials</i> , 2020 , 32, e2001693	24	31
49	Enantiomeric blends of high-molecular-weight poly(l-lactic acid)/poly(ethylene glycol) triblock copolymers: Enhanced stereocomplexation and thermomechanical properties. <i>Polymer</i> , 2016 , 103, 376-388	3.9	31
48	Stereocomplexed and Homochiral Polyurethane Elastomers with Tunable Crystallizability and Multishape Memory Effects. <i>ACS Macro Letters</i> , 2018 , 7, 233-238	6.6	30
47	Synthesis of end-functionalized hydrogen-bonding poly(l-lactic acid)s and preferential stereocomplex crystallization of their enantiomeric blends. <i>Polymer Chemistry</i> , 2016 , 7, 4891-4900	4.9	29
46	Synthesis and Crystallization of Poly(vinyl acetate)-g-Poly(l-lactide) Graft Copolymer with Controllable Graft Density. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 12897-12905	3.9	27
45	Poly(lactide)-b-poly(ethylene-co-butylene)-b-poly(lactide) thermoplastic elastomers: role of poly(lactide) crystallization and stereocomplexation on microphase separation, mechanical and shape memory properties. <i>RSC Advances</i> , 2014 , 4, 47965-47976	3.7	24
44	Crystallization kinetics of bacterial poly(3-hydroxybutyrate) copolyesters with cyanuric acid as a nucleating agent. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1374-1382	2.9	24
43	Crystallization behavior and crystalline structural changes of poly(glycolic acid) investigated via temperature-variable WAXD and FTIR analysis. <i>CrystEngComm</i> , 2016 , 18, 7894-7902	3.3	24
42	Fractional Crystallization Kinetics and Formation of Metastable β -Form Homocrystals in Poly(l-lactic acid)/Poly(d-lactic acid) Racemic Blends Induced by Precedingly Formed Stereocomplexes. <i>Macromolecules</i> , 2019 , 52, 4655-4665	5.5	23
41	Crystalline and Spherulitic Morphology of Polymers Crystallized in Confined Systems. <i>Crystals</i> , 2017 , 7, 147	2.3	21
40	Polymorphic Crystallization and Crystalline Reorganization of Poly(l-lactic acid)/Poly(d-lactic acid) Racemic Mixture Influenced by Blending with Poly(vinylidene fluoride). <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8046-54	3.4	19
39	Crystallization-Driven Formation of Diversified Assemblies for Supramolecular Poly(l-lactic acid)s in Solution. <i>Crystal Growth and Design</i> , 2017 , 17, 2498-2506	3.5	17
38	Stereocomplexed physical hydrogels with high strength and tunable crystallizability. <i>Soft Matter</i> , 2017 , 13, 8502-8510	3.6	16
37	Stretch-Induced β -to- α Crystal Transition and Lamellae Structural Evolution of Poly(butylene adipate-ran-terephthalate) Aliphatic-Aromatic Copolyester. <i>Macromolecules</i> , 2019 , 52, 1334-1347	5.5	16
36	Poly(l-lactic acid)/poly(ethylene glycol) stereocomplexed physical hydrogels showing thermally-induced gel-to-gel multiple phase transitions. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 313-322	7.8	14
35	Thermoresponsive poly(ϵ -caprolactone)-graft-poly(N-isopropylacrylamide) graft copolymers prepared by a combination of ring-opening polymerization and sequential azide-alkyne click chemistry. <i>Polymer International</i> , 2015 , 64, 389-396	3.3	14

34	Stress-Free Two-Way Shape Memory Effects of Semicrystalline Polymer Networks Enhanced by Self-Nucleated Crystallization. <i>ACS Macro Letters</i> , 2020 , 9, 1325-1331	6.6	14
33	Sequence-Rearranged Cocrystalline Polymer Network with Shape Reconfigurability and Tunable Switching Temperature. <i>ACS Macro Letters</i> , 2020 , 9, 588-594	6.6	13
32	Solution and aqueous miniemulsion polymerization of vinyl chloride mediated by a fluorinated xanthate. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2092-2101	2.5	13
31	Solvent-free ring-opening polymerization of lactones with hydrogen-bonding bisurea catalyst. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 90-100	2.5	13
30	Synthesis, micellization, and thermally-induced macroscopic micelle aggregation of poly(vinyl chloride)-g-poly(N-isopropylacrylamide) amphiphilic copolymer. <i>RSC Advances</i> , 2015 , 5, 94582-94590	3.7	11
29	Thermosensitive Poly(N-isopropylacrylamide-co-acrylonitrile) Hydrogels with Rapid Response. <i>Chinese Journal of Chemical Engineering</i> , 2006 , 14, 87-92	3.2	10
28	Role of Chain Entanglements in the Stereocomplex Crystallization between Poly(lactic acid) Enantiomers.. <i>ACS Macro Letters</i> , 2021 , 10, 1023-1028	6.6	10
27	A facile self-templating synthesis of carbon frameworks with tailored hierarchical porosity for enhanced energy storage performance. <i>Chemical Communications</i> , 2017 , 53, 5028-5031	5.8	9
26	Formation of Mesomorphic Polymorph, Thermal-Induced Phase Transition, and Crystalline Structure-Dependent Degradable and Mechanical Properties of Poly(p-dioxanone). <i>Crystal Growth and Design</i> , 2019 , 19, 166-176	3.5	7
25	Stepwise Crystallization and Induced Microphase Separation in Nucleobase-Monofunctionalized Supramolecular Poly(ϵ -caprolactone). <i>Macromolecules</i> , 2021 , 54, 846-857	5.5	7
24	Synthesis of random and block copolymers of vinyl chloride and vinyl acetate by RAFT miniemulsion polymerizations mediated by a fluorinated xanthate. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45074-45079	2.9	6
23	Thermoresponsivity, Micelle Structure, and Thermal-Induced Structural Transition of an Amphiphilic Block Copolymer Tuned by Terminal Multiple H-Bonding Units. <i>Langmuir</i> , 2020 , 36, 956-965	4	6
22	Poly(ϵ -caprolactone)-graft-poly(N-isopropylacrylamide) amphiphilic copolymers prepared by a combination of ring-opening polymerization and atom transfer radical polymerization: Synthesis, self-assembly, and thermoresponsive property. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	6
21	Preparation of hierarchical porous carbons from amphiphilic poly(vinylidene chloride-co-methyl acrylate)-b-poly(acrylic acid) copolymers by self-templating and one-step carbonization method. <i>Microporous and Mesoporous Materials</i> , 2014 , 196, 199-207	5.3	6
20	Synthesis and Characterization of Proton-conducting Polymer Electrolytes Based on Acrylonitrile-Styrene Sulfonic Acid Copolymer/Layered Double Hydroxides Nanocomposites. <i>Chinese Journal of Chemical Engineering</i> , 2008 , 16, 938-943	3.2	6
19	Nucleobase-monofunctionalized supramolecular poly(L-lactide): controlled synthesis, competitive crystallization, and structural organization. <i>Polymer Chemistry</i> , 2021 , 12, 3461-3470	4.9	6
18	Morphology and blowing agent encapsulation efficiency of vinylidene chloride copolymer microspheres synthesized by suspension polymerization in the presence of a blowing agent. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	5
17	Promoted stereocomplex formation and two-step crystallization kinetics of poly(l-lactic acid)/poly(d-lactic acid) blends induced by nucleator. <i>Polymer Crystallization</i> , 2019 , 2, e10057	0.9	5

16	Polymorphic Crystal Transition and Lamellae Structural Evolution of Poly(p-dioxanone) Induced by Annealing and Stretching. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3822-3831	3.4	5
15	Stereocomplexed and homocrystalline thermo-responsive physical hydrogels with a tunable network structure and thermo-responsiveness. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7947-7955	7.3	5
14	Self-evolving materials based on metastable-to-stable crystal transition of a polymorphic polyolefin. <i>Materials Horizons</i> , 2021 ,	14.4	4
13	One-step preparation of hierarchical porous carbons from poly(vinylidene chloride)-based block copolymers. <i>Journal of Materials Science</i> , 2014 , 49, 1090-1098	4.3	3
12	Ab initio emulsion RAFT polymerization of vinylidene chloride mediated by amphiphilic macro-RAFT agents. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	3
11	Preparation of Mesoporous Carbons from Acrylonitrile-methyl Methacrylate Copolymer/Silica Nanocomposites Synthesized by in-situ Emulsion Polymerization. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 691-697	3.2	2
10	Dispersion of Guava-likeSilica/polyacrylate nanocomposite particles in polyacrylate matrix. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 127-134		2
9	Online monitoring of drop/particle size and size distribution in liquid-liquid dispersions and suspension polymerizations by optical reflectance measurements. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	1
8	Expansion Properties and Diffusion of Blowing Agent for Vinylidene Chloride Copolymer Thermally Expandable Microspheres. <i>Materials</i> , 2020 , 13,	3.5	1
7	Free volume characteristics of 2,2-bis(trifluoromethyl)-4,5-difluoro-1,3-dioxole-co-tetrafluoroethylene copolymers: Effect of composition and molecular weight. <i>Journal of Polymer Science</i> , 2021 , 59, 754-763	2.4	1
6	Polymorphic Phase Formation of Liquid Crystals Distributed in Semicrystalline Polymers: An Indicator of Interlamellar and Interspherulitic Segregation. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4378-4384	6.4	1
5	Hierarchical ordering and multilayer structure of poly(ϵ -caprolactone) end-functionalized by a liquid crystalline unit: role of polymer crystallization. <i>Polymer Chemistry</i> , 2021 , 12, 4175-4183	4.9	1
4	Light-Induced Crystalline Size Heterogeneity of Polymers Enables Programmable Writing, Morphing, and Mechanical Performance Designing. <i>ACS Macro Letters</i> , 739-746	6.6	1
3	Photothermal driven polymorph pattern in semicrystalline polymers towards programmable shape morphing. <i>Chemical Engineering Journal</i> , 2022 , 137346	14.7	1
2	Multistage Structural Ordering and Crystallization of Poly(trimethylene terephthalate) during Sub-Tg Stretching: Synergetic Effects of Chain Orientation and Conformational Transition. <i>Macromolecules</i> , 2022 , 55, 252-261	5.5	0
1	Polymorphic crystalline structure and diversified crystalline morphology of poly(butylene adipate) blended with low-molecular-mass liquid crystals. <i>Polymer Crystallization</i> , 2020 , 3, e10099	0.9	