Bin Zhang

List of Publications by Year
in descending order

34 papers	757 citations	471509 17 h-index	526287 27 g-index
34 all docs	34 docs citations	34 times ranked	637 citing authors

#	Article	IF	Citations
1	Effects of melt structure on shear-induced Î²-cylindrites of isotactic polypropylene. Polymer, 2012, 53, 1791-1800.	3.8	79
2	Effect of Shear Stress on Crystallization of Isotactic Polypropylene from a Structured Melt. Macromolecules, 2012, 45, 8933-8937.	4.8	60
3	Flow-Induced Dendritic Î²-Form Isotactic Polypropylene Crystals in Thin Films. Macromolecules, 2016, 49, 5145-5151.	4.8	42
4	Formation of Î²-cylindrites under supercooled extrusion of isotactic polypropylene at low shear stress. Polymer, 2011, 52, 2075-2084.	3.8	40
5	Intrinsic carbon nanotube liquid crystalline elastomer photoactuators for high-definition biomechanics. Materials Horizons, 2022, 9, 1045-1056.	12.2	40
6	Correlating Polymer Crystals via Self-Induced Nucleation. Physical Review Letters, 2014, 112, 237801.	7.8	36
7	Molecularâ€Weightâ€Dependent Changes in Morphology of Solutionâ€Grown Polyethylene Single Crystals. Macromolecular Rapid Communications, 2015, 36, 181-189.	3.9	29
8	Supercritical CO₂-constructed intralayer [Bi₂O₂]²⁺ structural distortion for enhanced CO₂ electroreduction. Journal of Materials Chemistry A, 2020, 8, 13320-13327.	10.3	29
9	Transformation from form II to form I accelerated by oriented lamellae in Polybutene-1. Polymer, 2019, 185, 121966.	3.8	27
10	Systematic Control of Self-Seeding Crystallization Patterns of Poly(ethylene oxide) in Thin Films. Macromolecules, 2018, 51, 1626-1635.	4.8	26
11	Morphological Changes of Isotactic Polypropylene Crystals Grown in Thin Films. Macromolecules, 2017, 50, 6210-6217.	4.8	25
12	Later Stage Melting of Isotactic Polypropylene. Macromolecules, 2020, 53, 2136-2144.	4.8	23
13	Weak Lewis Pairs as Catalysts for Highly Isoselective Ring-Opening Polymerization of Epimerically Labile rac-O-Carboxyanhydride of Mandelic Acid. Macromolecules, 2020, 53, 946-955.	4.8	23
14	Amphiphilic miktoarm star copolymers can self-assemble into micelle-like aggregates in nonselective solvents: a case study of polyoxometalate based miktoarm stars. Science China Chemistry, 2020, 63, 792-801.	8.2	23
15	Nucleation Mechanism for Form II to I Polymorphic Transformation in Polybutene-1. Macromolecules, 2020, 53, 6476-6485.	4.8	21
16	Telechelic amphiphilic metallopolymers end-functionalized with platinum(<scp>ii</scp>) complexes: synthesis, luminescence enhancement, and their self-assembly into flowerlike vesicles and giant flowerlike vesicles. Polymer Chemistry, 2019, 10, 4477-4484.	3.9	19
17	Crystal morphology and structure of the Î²â€form of isotactic polypropylene under supercooled extrusion. Journal of Applied Polymer Science, 2011, 120, 3255-3264.	2.6	18
18	Phosphorescent and semiconductive fiber-like micelles formed by platinum(<scp>ii</scp>) complexes and block copolymers. Journal of Materials Chemistry C, 2017, 5, 12500-12506.	5.5	18

#	Article	IF	Citations
19	Annealing-induced periodic patterns in solution grown polymer single crystals. RSC Advances, 2015, 5, 12974-12980.	3.6	17
20	Self-Nucleation of Î²-Form Isotactic Polypropylene Lamellar Crystals in Thin Films. Macromolecules, 2021, 54, 11404-11411.	4.8	16
21	Sub-10 nm Scale Lamellar Structures with a High Degree of Long-Range Order Fabricated by Orthogonal Self-Assembly of Crown Ether/Secondary Dialkylammonium Recognition and MetalÂ·Â·Â·Metal/Ï€â€“Ï€ Interactions. ACS Macro Letters, 2019, 8, 1012-1016.	4.8	15
22	Influence of melt structure on Form II to I phase transition of Polybutene-1 under shear flow. Polymer, 2020, 199, 122562.	3.8	15
23	Single Crystal Structure of Form I Syndiotactic Poly(butene-1). Macromolecules, 2001, 34, 5221-5223.	4.8	14
24	High-Temperature Stability of Dewetting-Induced Thin Polyethylene Filaments. Macromolecules, 2015, 48, 1518-1523.	4.8	14
25	How do polymer molecular weights influence the luminescence properties of metal-containing polymers? A case study of platinum(<scp>ii</scp>) complex end-functionalized polymers. Journal of Materials Chemistry C, 2018, 6, 12187-12191.	5.5	14
26	Secondary dialkylammonium salt/crown ether [2]pseudorotaxanes as nanostructured platforms for proton transport. Chemical Communications, 2018, 54, 8092-8095.	4.1	14
27	Relation Between Charge Transport and the Number of Interconnected Lamellar Poly(3-Hexylthiophene) Crystals. Macromolecules, 2019, 52, 6088-6096.	4.8	13
28	Dynamic oil gels constructed by 1,2-dithiolane-containing telechelic polymers: An efficient and versatile platform for fabricating polymer-inorganic composites toward tribological applications. Chemical Engineering Journal, 2022, 430, 133097.	12.7	12
29	Controlling the pore size in conjugated polymer films via crystallization-driven phase separation. Soft Matter, 2019, 15, 2981-2989.	2.7	8
30	Generating Nanoscopic Patterns in Conductivity within a Poly(3-hexylthiophene) Crystal via Bias-Controlled Scanning Probe Nanolithography. Macromolecules, 2018, 51, 7692-7698.	4.8	7
31	The Effect of the Cooling Rate on the Morphology and Crystallization of Triple Crystalline PE-b-PEO-b-PLLA and PE-b-PCL-b-PLLA Triblock Terpolymers. ACS Applied Polymer Materials, 2020, 2, 4952-4963.	4.4	7
32	Dewetting-Induced Alignment and Ordering of Cylindrical Mesophases in Thin Block Copolymer Films. Macromolecules, 2020, 53, 9631-9640.	4.8	6
33	Hierarchical self-assembly of miktoarm star copolymers with pathway complexity. Polymer Chemistry, 2021, 12, 1476-1486.	3.9	4
34	Self-nucleation of Patterned Polymer Thin Films Defined by Soft Lithography. Chinese Journal of Polymer Science (English Edition), 2022, 40, 651-657.	3.8	3