

Shichun Jiang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Influence of Shear on Crystallization Behavior of the β Phase in Isotactic Polypropylene with β -Nucleating Agent. <i>Macromolecules</i> , 2004, 37, 2478-2483.	2.2	299
2	Tuning and Erasing Surface Wrinkles by Reversible Visible-Light-Induced Photoisomerization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3931-3935.	7.2	124
3	Real time synchrotron SAXS and WAXS investigations on temperature related deformation and transitions of β -iPP with uniaxial stretching. <i>Polymer</i> , 2012, 53, 1593-1601.	1.8	88
4	Reversible Lamellar Thickening Induced by Crystal Transition in Poly(butylene succinate). <i>Macromolecules</i> , 2012, 45, 5487-5493.	2.2	83
5	In-situ synchrotron SAXS and WAXS investigations on deformation and β transformation of uniaxial stretched poly(vinylidene fluoride). <i>CrystEngComm</i> , 2013, 15, 1597.	1.3	66
6	Crystallization and morphology of poly(ethylene oxide- <i>b</i> - ϵ -lactide) crystalline/crystalline diblock copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1400-1411.	2.4	58
7	Direct investigations on strain-induced cold crystallization behavior and structure evolutions in amorphous poly(lactic acid) with SAXS and WAXS measurements. <i>Polymer</i> , 2016, 90, 111-121.	1.8	58
8	Crystallization and Ring-Banded Spherulite Morphology of Poly(ethylene Terephthalate) / Overlapped Poly(ethylene oxide)-block-Poly(ethylene glycol) Copolymer. <i>Polymer</i> , 2015, 56, 2229-2234.	1.1	56
9	Crystalline morphology evolution in PCL thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1303-1309.	2.4	56
10	Well-defined orthogonal surface wrinkles directed by the wrinkled boundary. <i>Soft Matter</i> , 2013, 9, 3720.	1.2	55
11	Fluorescence turn-on detection of alkaline phosphatase activity based on controlled release of PEI-capped Cu nanoclusters from MnO ₂ nanosheets. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4771-4778.	1.9	54
12	Temperature dependence of poly(lactic acid) mechanical properties. <i>RSC Advances</i> , 2016, 6, 113762-113772.	1.7	49
13	Bioinspired Fabrication of Free-Standing Conducting Films with Hierarchical Surface Wrinkling Patterns. <i>ACS Nano</i> , 2016, 10, 3801-3808.	7.3	46
14	Structures and morphologies of biocompatible and biodegradable block copolymers. <i>RSC Advances</i> , 2014, 4, 24566-24583.	1.7	41
15	Conformation Directed Mpemba Effect on Polylactide Crystallization. <i>Crystal Growth and Design</i> , 2018, 18, 5757-5762.	1.4	41
16	Deformation and structure evolution of glassy poly(lactic acid) below the glass transition temperature. <i>CrystEngComm</i> , 2015, 17, 5651-5663.	1.3	37
17	Crystalline structures and crystallization behaviors of poly(l-lactide) in poly(l-lactide)/graphene nanosheet composites. <i>Polymer Chemistry</i> , 2015, 6, 3988-4002.	1.9	37
18	Confined crystallization and phase transition in semi-rigid chitosan containing long chain alkyl groups. <i>CrystEngComm</i> , 2011, 13, 561-567.	1.3	36

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19	Synthesis, crystal structure, enhanced photoluminescence properties and fluoride detection ability of S-heterocyclic annulated perylene diimide-polyhedral oligosilsesquioxane dye. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2566-2576.	2.7	36
20	Patterning Poly(dimethylsiloxane) Microspheres via Combination of Oxygen Plasma Exposure and Solvent Treatment. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13450-13461.	1.2	31
21	Temperature-dependent selective crystallization behavior of isotactic polypropylene with a β -nucleating agent. <i>Journal of Applied Polymer Science</i> , 2013, 128, 628-635.	1.3	28
22	Conformation Selected Direct Formation of Form I in Isotactic Poly(butene-1). <i>Crystal Growth and Design</i> , 2018, 18, 2525-2537.	1.4	28
23	Thermal strain-induced cold crystallization of amorphous poly(lactic acid). <i>CrystEngComm</i> , 2016, 18, 3237-3246.	1.3	25
24	The Critical Lowest Molecular Weight for PEG to Crystallize in Cross-Linked Networks. <i>Macromolecular Rapid Communications</i> , 2004, 25, 659-663.	2.0	23
25	Simple and Versatile Strategy to Prevent Surface Wrinkling by Visible Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19127-19134.	4.0	23
26	Role of conformation in crystal formation and transition of polybutene-1. <i>CrystEngComm</i> , 2019, 21, 4243-4249.	1.3	23
27	Direct investigations of deformation and yield induced structure transitions in polyamide 6 below glass transition temperature with WAXS and SAXS. <i>Polymer</i> , 2015, 70, 109-117.	1.8	22
28	Morphologies and structures in poly(l-lactide-b-ethylene oxide) copolymers determined by crystallization, microphase separation, and vitrification. <i>Polymer Bulletin</i> , 2011, 67, 885-902.	1.7	21
29	Wall Slip Effect on Shear-Induced Crystallization Behavior of Isotactic Polypropylene Containing β -Nucleating Agent. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13513-13521.	1.8	21
30	Study of temperature dependence of crystallisation transitions of a symmetric PEO-PCL diblock copolymer using simultaneous SAXS and WAXS measurements with synchrotron radiation. <i>European Physical Journal E</i> , 2008, 27, 357-364.	0.7	20
31	Solvent micro-evaporation and concentration gradient synergistically induced crystallization of poly(l-lactide) and ring banded supra-structures with radial periodic variation of thickness. <i>CrystEngComm</i> , 2014, 16, 94-101.	1.3	20
32	New insight into the mechanism of enhanced crystallization of PLA in PLLA/PDLA mixture. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45663.	1.3	20
33	Patterning Surfaces on Azo-Based Multilayer Films via Surface Wrinkling Combined with Visible Light Irradiation. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1288-1294.	2.0	19
34	A real-time fluorescence turn-on assay for acetylcholinesterase activity based on the controlled release of a perylene probe from MnO ₂ nanosheets. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4691-4694.	2.7	18
35	Mesogen-Free Supramolecular Liquid Crystalline State Formed by a Polyelectrolyte/Amphiphile Complex. <i>Macromolecular Rapid Communications</i> , 2005, 26, 226-231.	2.0	17
36	Effects of lithium perchlorate on poly(ethylene oxide) spherulite morphology and spherulite growth kinetics. <i>Journal of Applied Polymer Science</i> , 2012, 123, 1935-1943.	1.3	17

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37	Mechanistic Insights into the Shear-Induced β -Form Crystal Formation of iPP. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1354-1360.	1.1	17
38	Temperature dependence of tensile behavior in poly(butylene terephthalate) with different crystallinity. <i>Materials and Design</i> , 2017, 129, 143-150.	3.3	17
39	Crystalline structures of poly(l-lactide) formed under pressure and structure transitions with heating. <i>CrystEngComm</i> , 2013, 15, 4372.	1.3	16
40	Crystallization induced layer-to-layer transitions in symmetric PEO-b-PLLA block copolymer with synchrotron simultaneous SAXS/WAXS investigations. <i>RSC Advances</i> , 2014, 4, 56346-56354.	1.7	16
41	Temperature dependence of deformation behavior of poly(butylene terephthalate). <i>Polymer</i> , 2018, 143, 309-315.	1.8	16
42	Synthesis and characterization of CdS nanocrystals in poly(styrene-co-maleic anhydride) copolymer. <i>Colloid and Polymer Science</i> , 2003, 281, 386-389.	1.0	15
43	Soft nanoconfinement effects on the crystallization behavior of asymmetric poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tt 5	1.6	15
44	Photocontrollable Wrinkle Morphology Evolution on Azo-Based Multilayers for Hierarchical Surface Micropatterns Fabrication. <i>Langmuir</i> , 2019, 35, 2601-2609.	1.6	15
45	Shear effects on crystalline structures of poly(l-lactide). <i>CrystEngComm</i> , 2013, 15, 7914.	1.3	14
46	Light-Modulated Surface Micropatterns with Multifunctional Surface Properties on Photodegradable Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37402-37410.	4.0	14
47	Miscibility and rheologically determined phase diagram of poly(ethylene oxide)/poly(ϵ -caprolactone) blends. <i>Polymer Bulletin</i> , 2012, 68, 1405-1423.	1.7	13
48	Melting processes of oligomeric β and γ isotactic polypropylene crystals at ultrafast heating rates. <i>Journal of Chemical Physics</i> , 2014, 140, 054901.	1.2	13
49	Tuning and Erasing Surface Wrinkles by Reversible Visible-Light-Induced Photoisomerization. <i>Angewandte Chemie</i> , 2016, 128, 3999-4003.	1.6	13
50	Memory effects on crystallization behaviours of poly(L-lactic acid) revisited. <i>CrystEngComm</i> , 2019, 21, 2660-2668.	1.3	13
51	A new perspective to enhance the β transition of polybutene-1. <i>CrystEngComm</i> , 2020, 22, 2247-2257.	1.3	13
52	Crystallisation of iPB-1 based on preserved helix conformation. <i>Polymer</i> , 2020, 190, 122209.	1.8	13
53	Time-Resolved Synchrotron SAXS Observations on Sheared Syndiotactic Poly(propylene) Crystallization Process. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1721-1729.	1.1	12
54	Synchrotron investigation on the sheared structure evolution of syndiotactic polypropylene crystallization process. <i>Journal of Chemical Physics</i> , 2009, 130, 164909.	1.2	12

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55	Investigations in annealing effects on structure and properties of \hat{I}^2 -isotactic polypropylene with X-ray synchrotron experiments. <i>Colloid and Polymer Science</i> , 2014, 292, 3205-3221.	1.0	12
56	Stereocomplex-affected crystallization behaviour of PDLA in PDLA/PLDLA blends. <i>CrystEngComm</i> , 2019, 21, 329-338.	1.3	12
57	Synergistic effects of chain dynamics and enantiomeric interaction on the crystallization in PDLA/PLLA mixtures. <i>Polymer</i> , 2021, 222, 123648.	1.8	11
58	Chloroform micro-evaporation induced ordered structures of poly(l-lactide) thin films. <i>RSC Advances</i> , 2013, 3, 13705.	1.7	10
59	Facile One Pot Polycondensation Method to Synthesize the Crosslinked Polyethylene glycolâ€Based Copolymer Electrolytes. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1607-1613.	1.1	10
60	Shear effects on crystallization behavior of poly(ethylene-co-octene) copolymers. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	9
61	Pendant Affected Crystallization Behaviors of Cyclic Poly(\hat{I}^{μ} -caprolactone). <i>Crystal Growth and Design</i> , 2019, 19, 49-54.	1.4	9
62	Pressure Effects on the Thermodynamics of trans-Decahydronaphthalene/Polystyrene Polymer Solutions: Application of the Sanchez-Lacombe Lattice Fluid Theory. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 692-703.	1.1	8
63	A qualitative analysis of particle-induced viscosity reduction in polymeric composites. <i>Journal of Materials Science</i> , 2016, 51, 3080-3096.	1.7	8
64	Direct investigations of temperature related structure transitions in strained poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	1.0	8
65	Pressure induced crystallization and in situ simultaneous SAXS/WAXS investigations on structure transitions. <i>CrystEngComm</i> , 2020, 22, 4748-4757.	1.3	8
66	Crystallization behavior of poly(\hat{I}^{μ} -caprolactone) and poly (\hat{I}^{μ} -caprolactone)/LiClO ₄ complexes from the melt. <i>CrystEngComm</i> , 2012, 14, 7972.	1.3	7
67	Elements of functional ion/block copolymer hybrids. <i>RSC Advances</i> , 2013, 3, 23895.	1.7	7
68	Evaluation of Relationship Between Crystallization Structure and Thermalâ€Mechanical Performance of PLA with MCC Addition. <i>ChemistrySelect</i> , 2019, 4, 10174-10180.	0.7	7
69	Crystal structure and unique lamellar thickening for poly(l-lactide) induced by high pressure. <i>Polymer</i> , 2019, 175, 81-86.	1.8	7
70	Dynamics affected memory for crystallization behaviors of poly (d-lactic acid). <i>Polymer</i> , 2020, 211, 123078.	1.8	7
71	Pressure-Induced Compatibility in PEO/P(EO-b-DMS) Polymer Mixtures. <i>Macromolecules</i> , 2002, 35, 5727-5730.	2.2	6
72	Crystallization kinetics in shearing-induced oriented and stretched poly(ethylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 656-665.	2.4	6

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73	Crystallization behavior of poly(ϵ -caprolactone) in poly(ϵ -caprolactone) and poly(vinyl methyl ether) mixtures. <i>Journal of Applied Polymer Science</i> , 2007, 105, 615-622.	1.3	6
74	Studies on confined crystallization behavior of polycaprolactone thin films. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 343-348.	0.4	6
75	Crystallization and spherulitic growth kinetics of poly(trimethylene terephthalate)/polycarbonate blends. <i>Polymer Engineering and Science</i> , 2010, 50, 1036-1046.	1.5	6
76	In situ studies on the temperature-related deformation behavior of isotactic polypropylene spherulites with uniaxial stretching: The effect of crystallization conditions. <i>Polymer Engineering and Science</i> , 2013, 53, 125-133.	1.5	6
77	Deformation-induced crystalline structure evolutions of isotactic poly-1-butene. <i>Colloid and Polymer Science</i> , 2016, 294, 1983-1988.	1.0	6
78	Quantitative determination of the spring entropy effect and its indication of the conformational change of polymer coils with varying concentration in aqueous poly(<i>N</i> -isopropylamide) solutions. <i>RSC Advances</i> , 2019, 9, 5540-5549.	1.7	6
79	Role of chain dynamics in crystal transition of isotactic polybutene-1. <i>Polymer</i> , 2020, 210, 123029.	1.8	6
80	Thermal dynamics affected formation and dislocation of PDLA morphology. <i>Polymer</i> , 2020, 192, 122318.	1.8	6
81	Solvent vapor induced structural evolution of micelle clusters and square slices that form in PS- <i>b</i> -PEO solutions. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	5
82	Hydrodynamic behaviors of amphiphilic dendritic polymers with different degrees of amidation. <i>Polymer Chemistry</i> , 2016, 7, 3126-3133.	1.9	5
83	Self-Assembly Kinetics of Amphiphilic Dendritic Copolymers. <i>Macromolecules</i> , 2017, 50, 1657-1665.	2.2	5
84	End groups affected crystallization behavior of unentangled poly(ϵ -caprolactone)s. <i>Polymer</i> , 2022, 241, 124534.	1.8	5
85	Liquid-liquid phase behavior of toluene/polyethylene oxide/poly(ethylene oxide- <i>b</i> -dimethylsiloxane) polymer-containing ternary mixtures. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2066-2071.	1.3	4
86	Molecular weight dependence of phase behavior of PEO/P(EO- <i>b</i> -DMS) blends: Application of Sanchez-Lacombe lattice fluid theory. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 452-459.	2.4	4
87	Intra- and intermolecular-interaction-controlled reversible core-shell structures and photoluminescent properties of lanthanide ion-doped diblock copolymers. <i>RSC Advances</i> , 2017, 7, 33355-33363.	1.7	4
88	Investigations on the micellization of amphiphilic dendritic copolymers: From unimers to micelles. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 609-614.	5.0	4
89	Study on structure and property relations of ϵ -PP during uniaxial deformation via <i>in situ</i> synchrotron SAXS/WAXS and POM investigations. <i>Polymer Engineering and Science</i> , 2018, 58, 160-169.	1.5	4
90	Local conformation controlled crystallization of isotactic poly(butene-1). <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	4

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91	Conformational Energy Settled Crystallization Behaviors of Poly(l-lactic acid). ACS Applied Polymer Materials, 2019, 1, 2552-2560.	2.0	4
92	Thermodynamics of Phase Behavior in PEO/P(EO-b-DMS) Homopolymer and Block Co-Oligomer Mixtures under Pressure. Macromolecular Chemistry and Physics, 2003, 204, 2265-2273.	1.1	3
93	The crucial role of cadmium acetate-induced conformational restriction in microscopic structure and stability of polystyrene-block-polyvinyl pyridine thin films. Polymer, 2014, 55, 5801-5810.	1.8	3
94	Shear effects on crystallization behaviors and structure transitions of isotactic poly-1-butene. Journal of Polymer Research, 2014, 21, 1.	1.2	3
95	Deformation-induced structure evolution of poly(butylene terephthalate)/poly(carbonate) blends during uniaxial stretching. CrystEngComm, 2017, 19, 6858-6868.	1.3	3
96	Dual entropic and enthalpic processes in the lower critical solution temperature phase separation of poly(vinyl methyl ether) aqueous solutions. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 323-330.	2.4	3
97	Stretch-induced stable-metastable crystal transformation of PVDF/graphene composites. Polymer Crystallization, 2019, 2, e10079.	0.5	3
98	Direct Observations on Structure Evolutions in Polyamide 6 during Deformation at High Temperatures with WAXS and SAXS. Polymer Engineering and Science, 2020, 60, 581-586.	1.5	3
99	The enhanced T_g transition behaviors of an isotactic polybutene-1 alloy by a TAB-3. Journal of Materials Science, 2021, 56, 886-901.	1.7	3
100	Crystallization behavior and structure of metallocene polyethylene with long-chain branch. Colloid and Polymer Science, 2022, 300, 521-530.	1.0	3
101	Control of self-organized low-dimensional morphology in poly(styrene-b-4vinylpyridine)/polystyrene blend thin films. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3496-3504.	2.4	2
102	Double equilibrium melting temperatures and zero growth temperature of PVDF in PVDF/graphene composites. Journal of Polymer Research, 2015, 22, 1.	1.2	2
103	An FTIR and X-ray diffraction study of the crystal phase transition in isotactic polybutene-1. Polymer Crystallization, 2021, 4, e10200.	0.5	2
104	Structure/property relationship of semicrystalline polymers during tensile deformation: a molecular dynamics approach. Colloid and Polymer Science, 2022, 300, 675-689.	1.0	2
105	Monte Carlo Simulation of Phase Behavior of Polymer Blends with Special Interactions. Macromolecular Theory and Simulations, 2001, 10, 750-755.	0.6	1
106	Influence of Crystallization on Molecular Dynamics of the Amorphous Phase in Poly(μ -caprolactone) and Poly(μ -caprolactone)/LiClO ₄ Complexes Investigated by Dielectric Relaxation Spectroscopy. Journal of Polymer Research, 2013, 20, 1.	1.2	1
107	Crystallization behavior of polyamide 6 confined in a strip-like rubbery phase. RSC Advances, 2013, 3, 26283.	1.7	1
108	A facile approach to fabricate hierarchically structured poly(3-hexylthiophene-2,5-diyl) films. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 928-939.	2.4	1

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109	Effect of an additive TAB-1 on crystallization behaviors and tensile properties of iPB-1. CrystEngComm, 2022, 22, 10, 1000-1010.	1.3	1
110	Glassy structure affected cold-crystallization behavior and structure of poly(lactic acid). Journal of Polymer Research, 2022, 29, 10, 1000-1010.	1.2	1
111	Abnormal pressure dependence of the phase boundaries in TL/PEO/P(EO-b-DMS) ternary mixtures. Physical Review B, 2003, 68, 10, 1000-1010.	1.1	0
112	Entropic effect implication for change in polymer coils swelling state in the demixing enthalpy recovery of aqueous poly(vinyl methyl ether) solutions. Journal of Polymer Science, Part B: Polymer Physics, 2018, 57, 142.	2.4	0
113	Temperature dependence of deformation behavior in amorphous poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 Td (t	1.5	0