

# Shichun Jiang

## List of Publications by Citations

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115  
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2,064  
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#	Paper	IF	Citations
109	Influence of Shear on Crystallization Behavior of the $\beta$ Phase in Isotactic Polypropylene with $\beta$ Nucleating Agent. <i>Macromolecules</i> , <b>2004</b> , 37, 2478-2483	5.5	277
108	Tuning and Erasing Surface Wrinkles by Reversible Visible-Light-Induced Photoisomerization. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3931-5	16.4	97
107	Real time synchrotron SAXS and WAXS investigations on temperature related deformation and transitions of $\beta$ PP with uniaxial stretching. <i>Polymer</i> , <b>2012</b> , 53, 1593-1601	3.9	78
106	Reversible Lamellar Thickening Induced by Crystal Transition in Poly(butylene succinate). <i>Macromolecules</i> , <b>2012</b> , 45, 5487-5493	5.5	68
105	In-situ synchrotron SAXS and WAXS investigations on deformation and $\beta$ transformation of uniaxial stretched poly(vinylidene fluoride). <i>CrystEngComm</i> , <b>2013</b> , 15, 1597	3.3	54
104	Crystallization and Ring-Banded Spherulite Morphology of Poly(ethylene oxide)-block-Poly( $\beta$ caprolactone) Diblock Copolymer. <i>Macromolecular Chemistry and Physics</i> , <b>2004</b> , 205, 2229-2234	2.6	54
103	Well-defined orthogonal surface wrinkles directed by the wrinkled boundary. <i>Soft Matter</i> , <b>2013</b> , 9, 3720	3.6	53
102	Crystallization and morphology of poly(ethylene oxide-b-lactide) crystalline/crystalline diblock copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 1400-1411	2.6	52
101	Crystalline morphology evolution in PCL thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 1303-1309	2.6	51
100	Direct investigations on strain-induced cold crystallization behavior and structure evolutions in amorphous poly(lactic acid) with SAXS and WAXS measurements. <i>Polymer</i> , <b>2016</b> , 90, 111-121	3.9	46
99	Fluorescence turn-on detection of alkaline phosphatase activity based on controlled release of PEI-capped Cu nanoclusters from MnO nanosheets. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 4771-4778	4.4	43
98	Bioinspired Fabrication of Free-Standing Conducting Films with Hierarchical Surface Wrinkling Patterns. <i>ACS Nano</i> , <b>2016</b> , 10, 3801-8	16.7	42
97	Structures and morphologies of biocompatible and biodegradable block copolymers. <i>RSC Advances</i> , <b>2014</b> , 4, 24566-24583	3.7	33
96	Confined crystallization and phase transition in semi-rigid chitosan containing long chain alkyl groups. <i>CrystEngComm</i> , <b>2011</b> , 13, 561-567	3.3	33
95	Temperature dependence of poly(lactic acid) mechanical properties. <i>RSC Advances</i> , <b>2016</b> , 6, 113762-113772	3.7	31
94	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> , <b>2017</b> , 5, 2566-2576	7.1	30
93	Crystalline structures and crystallization behaviors of poly(L-lactide) in poly(L-lactide)/graphene nanosheet composites. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 3988-4002	4.9	30

92	Patterning Poly(dimethylsiloxane) Microspheres via Combination of Oxygen Plasma Exposure and Solvent Treatment. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 13450-61	3.4	28
91	Deformation and structure evolution of glassy poly(lactic acid) below the glass transition temperature. <i>CrystEngComm</i> , <b>2015</b> , 17, 5651-5663	3.3	25
90	Conformation Directed Mpemba Effect on Polylactide Crystallization. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 5757-5762	3.5	25
89	Temperature-dependent selective crystallization behavior of isotactic polypropylene with a E-nucleating agent. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 628-635	2.9	23
88	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> , <b>2008</b> , 27, 357-64	1.5	20
87	The Critical Lowest Molecular Weight for PEG to Crystallize in Cross-Linked Networks. <i>Macromolecular Rapid Communications</i> , <b>2004</b> , 25, 659-663	4.8	20
86	Direct investigations of deformation and yield induced structure transitions in polyamide 6 below glass transition temperature with WAXS and SAXS. <i>Polymer</i> , <b>2015</b> , 70, 109-117	3.9	19
85	Conformation Selected Direct Formation of Form I in Isotactic Poly(butene-1). <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2525-2537	3.5	19
84	Morphologies and structures in poly(l-lactide-b-ethylene oxide) copolymers determined by crystallization, microphase separation, and vitrification. <i>Polymer Bulletin</i> , <b>2011</b> , 67, 885-902	2.4	19
83	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> , <b>2014</b> , 16, 94-101	3.3	18
82	Wall Slip Effect on Shear-Induced Crystallization Behavior of Isotactic Polypropylene Containing E-nucleating Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 13513-13521	3.9	18
81	Thermal strain-induced cold crystallization of amorphous poly(lactic acid). <i>CrystEngComm</i> , <b>2016</b> , 18, 3237-3246	3.3	18
80	Mesogen-Free Supramolecular Liquid Crystalline State Formed by a Polyelectrolyte/Amphiphile Complex. <i>Macromolecular Rapid Communications</i> , <b>2005</b> , 26, 226-231	4.8	17
79	A real-time fluorescence turn-on assay for acetylcholinesterase activity based on the controlled release of a perylene probe from MnO <sub>2</sub> nanosheets. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4691-4694 <sup>-1</sup>	7.1	16
78	Shear effects on crystalline structures of poly(L-lactide). <i>CrystEngComm</i> , <b>2013</b> , 15, 7914	3.3	14
77	Crystalline structures of poly(L-lactide) formed under pressure and structure transitions with heating. <i>CrystEngComm</i> , <b>2013</b> , 15, 4372	3.3	14
76	Synthesis and characterization of CdS nanocrystals in poly(styrene-co-maleic anhydride) copolymer. <i>Colloid and Polymer Science</i> , <b>2003</b> , 281, 386-389	2.4	14
75	Simple and Versatile Strategy to Prevent Surface Wrinkling by Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19127-34	9.5	14

74	Patterning Surfaces on Azo-Based Multilayer Films via Surface Wrinkling Combined with Visible Light Irradiation. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 1288-94	4.8	14
73	Mechanistic Insights into the Shear-Induced Form Crystal Formation of iPP. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 1354-1360	2.6	14
72	Effects of lithium perchlorate on poly(ethylene oxide) spherulite morphology and spherulite growth kinetics. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 1935-1943	2.9	13
71	Soft nanoconfinement effects on the crystallization behavior of asymmetric poly(ethylene oxide)-block-poly( $\epsilon$ -caprolactone) diblock copolymers. <i>Polymer International</i> , <b>2012</b> , 61, 909-917	3.3	13
70	New insight into the mechanism of enhanced crystallization of PLA in PLLA/PDLA mixture. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45663	2.9	13
69	Temperature dependence of tensile behavior in poly(butylene terephthalate) with different crystallinity. <i>Materials and Design</i> , <b>2017</b> , 129, 143-150	8.1	12
68	Role of conformation in crystal formation and transition of polybutene-1. <i>CrystEngComm</i> , <b>2019</b> , 21, 4243-4249	3.5	12
67	Crystallization induced layer-to-layer transitions in symmetric PEO-b-PLLA block copolymer with synchrotron simultaneous SAXS/WAXS investigations. <i>RSC Advances</i> , <b>2014</b> , 4, 56346-56354	3.7	12
66	Light-Modulated Surface Micropatterns with Multifunctional Surface Properties on Photodegradable Polymer Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37402-37410	9.5	11
65	Stereocomplex-affected crystallization behaviour of PDLA in PDLA/PLDLA blends. <i>CrystEngComm</i> , <b>2019</b> , 21, 329-338	3.3	11
64	Photocontrollable Wrinkle Morphology Evolution on Azo-Based Multilayers for Hierarchical Surface Micropatterns Fabrication. <i>Langmuir</i> , <b>2019</b> , 35, 2601-2609	4	11
63	Miscibility and rheologically determined phase diagram of poly(ethylene oxide)/poly( $\epsilon$ -caprolactone) blends. <i>Polymer Bulletin</i> , <b>2012</b> , 68, 1405-1423	2.4	11
62	Chloroform micro-evaporation induced ordered structures of poly(L-lactide) thin films. <i>RSC Advances</i> , <b>2013</b> , 3, 13705	3.7	10
61	Synchrotron investigation on the sheared structure evolution of syndiotactic polypropylene crystallization process. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 164909	3.9	10
60	Time-Resolved Synchrotron SAXS Observations on Sheared Syndiotactic Poly(propylene) Crystallization Process. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 1721-1729	2.6	10
59	Investigations in annealing effects on structure and properties of isotactic polypropylene with X-ray synchrotron experiments. <i>Colloid and Polymer Science</i> , <b>2014</b> , 292, 3205-3221	2.4	9
58	Melting processes of oligomeric and isotactic polypropylene crystals at ultrafast heating rates. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 054901	3.9	9
57	Facile One Pot Polycondensation Method to Synthesize the Crosslinked Polyethylene glycol-Based Copolymer Electrolytes. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 1607-1613	2.6	9

56	Tuning and Erasing Surface Wrinkles by Reversible Visible-Light-Induced Photoisomerization. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3999-4003	3.6	9
55	Memory effects on crystallization behaviours of poly(L-lactic acid) revisited. <i>CrystEngComm</i> , <b>2019</b> , 21, 2660-2668	3.3	8
54	Temperature dependence of deformation behavior of poly(butylene terephthalate). <i>Polymer</i> , <b>2018</b> , 143, 309-315	3.9	8
53	Shear effects on crystallization behavior of poly(ethylene-co-octene) copolymers. <i>Journal of Polymer Research</i> , <b>2012</b> , 19, 1	2.7	8
52	Crystallization behavior of poly( $\epsilon$ -caprolactone) and poly( $\epsilon$ -caprolactone)/LiClO <sub>4</sub> complexes from the melt. <i>CrystEngComm</i> , <b>2012</b> , 14, 7972	3.3	7
51	A new perspective to enhance the glass transition of polybutene-1. <i>CrystEngComm</i> , <b>2020</b> , 22, 2247-2257	3.3	6
50	Deformation-induced crystalline structure evolutions of isotactic poly-1-butene. <i>Colloid and Polymer Science</i> , <b>2016</b> , 294, 1983-1988	2.4	6
49	A qualitative analysis of particle-induced viscosity reduction in polymeric composites. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 3080-3096	4.3	6
48	Elements of functional ion/block copolymer hybrids. <i>RSC Advances</i> , <b>2013</b> , 3, 23895	3.7	6
47	Crystallization behavior of poly( $\epsilon$ -caprolactone) in poly( $\epsilon$ -caprolactone) and poly(vinyl methyl ether) mixtures. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 615-622	2.9	6
46	Studies on confined crystallization behavior of polycaprolactone thin films. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , <b>2007</b> , 2, 343-348		6
45	Crystallization kinetics in shearing-induced oriented and stretched poly(ethylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 656-665	2.6	6
44	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> , <b>2003</b> , 204, 692-703	2.6	6
43	Direct investigations of temperature related structure transitions in strained poly(butylene succinate) with SAXS and WAXS. <i>Colloid and Polymer Science</i> , <b>2016</b> , 294, 321-328	2.4	5
42	Self-Assembly Kinetics of Amphiphilic Dendritic Copolymers. <i>Macromolecules</i> , <b>2017</b> , 50, 1657-1665	5.5	5
41	Crystallisation of iPb-1 based on preserved helix conformation. <i>Polymer</i> , <b>2020</b> , 190, 122209	3.9	5
40	Crystallization and spherulitic growth kinetics of poly(trimethylene terephthalate)/polycarbonate blends. <i>Polymer Engineering and Science</i> , <b>2010</b> , 50, 1036-1046	2.3	5
39	Crystal structure and unique lamellar thickening for poly(L-lactide) induced by high pressure. <i>Polymer</i> , <b>2019</b> , 175, 81-86	3.9	4

38	Quantitative determination of the spring entropy effect and its indication of the conformational change of polymer coils with varying concentration in aqueous poly(-isopropylamide) solutions.. <i>RSC Advances</i> , <b>2019</b> , 9, 5540-5549	3.7	4
37	Thermal dynamics affected formation and dislocation of PDLA morphology. <i>Polymer</i> , <b>2020</b> , 192, 122318	3.9	4
36	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> , <b>2013</b> , 53, 125-133	2.3	4
35	Solvent vapor induced structural evolution of micelle clusters and square slices that form in PS-b-PEO solutions. <i>Journal of Polymer Research</i> , <b>2012</b> , 19, 1	2.7	4
34	Molecular weight dependence of phase behavior of PEO/P(EO-b-DMS) blends: Application of Sanchez-Lacombe lattice fluid theory. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 452-459	2.6	4
33	Dynamics affected memory for crystallization behaviors of poly (d-lactic acid). <i>Polymer</i> , <b>2020</b> , 211, 123078	3.9	4
32	Synergistic effects of chain dynamics and enantiomeric interaction on the crystallization in PDLA/PLLA mixtures. <i>Polymer</i> , <b>2021</b> , 222, 123648	3.9	4
31	Hydrodynamic behaviors of amphiphilic dendritic polymers with different degrees of amidation. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 3126-3133	4.9	4
30	Pendant Affected Crystallization Behaviors of Cyclic Poly(E-caprolactone). <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 49-54	3.5	4
29	Dual entropic and enthalpic processes in the lower critical solution temperature phase separation of poly(vinyl methyl ether) aqueous solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 323-330	2.6	3
28	Pressure induced crystallization and in situ simultaneous SAXS/WAXS investigations on structure transitions. <i>CrystEngComm</i> , <b>2020</b> , 22, 4748-4757	3.3	3
27	Intra- and intermolecular-interaction-controlled reversible core-shell structures and photoluminescent properties of lanthanide ion-doped diblock copolymers. <i>RSC Advances</i> , <b>2017</b> , 7, 33353-33363	3.7	3
26	Evaluation of Relationship Between Crystallization Structure and Thermal-Mechanical Performance of PLA with MCC Addition. <i>ChemistrySelect</i> , <b>2019</b> , 4, 10174-10180	1.8	3
25	The crucial role of cadmium acetate-induced conformational restriction in microscopic structure and stability of polystyrene-block-polyvinyl pyridine thin films. <i>Polymer</i> , <b>2014</b> , 55, 5801-5810	3.9	3
24	Shear effects on crystallization behaviors and structure transitions of isotactic poly-1-butene. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	3
23	Thermodynamics of Phase Behavior in PEO/P(EO-b-DMS) Homopolymer and Block Co-Oligomer Mixtures under Pressure. <i>Macromolecular Chemistry and Physics</i> , <b>2003</b> , 204, 2265-2273	2.6	3
22	Stretch-induced stable-metastable crystal transformation of PVDF/graphene composites. <i>Polymer Crystallization</i> , <b>2019</b> , 2, e10079	0.9	2
21	Investigations on the micellization of amphiphilic dendritic copolymers: From unimers to micelles. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 609-614	9.3	2

20	Study on structure and property relations of $\beta$ PP during uniaxial deformation via in situ synchrotron SAXS/WAXS and POM investigations. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 160-169	2.3	2
19	Double equilibrium melting temperatures and zero growth temperature of PVDF in PVDF/graphene composites. <i>Journal of Polymer Research</i> , <b>2015</b> , 22, 1	2.7	2
18	Control of self-organized low-dimensional morphology in poly(styrene- <i>b</i> -4vinylpyridine)/polystyrene blend thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 3496-3504	2.6	2
17	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> , <b>2003</b> , 5, 2066-2071	3.6	2
16	Pressure-Induced Compatibility in PEO/P(EO- <i>b</i> -DMS) Polymer Mixtures. <i>Macromolecules</i> , <b>2002</b> , 35, 5727-5730	2.5	2
15	Local conformation controlled crystallization of isotactic poly(butene-1). <i>Journal of Polymer Research</i> , <b>2018</b> , 25, 1	2.7	2
14	A facile approach to fabricate hierarchically structured poly(3-hexylthiophene-2,5-diyl) films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 928-939	2.6	1
13	Deformation-induced structure evolution of poly(butylene terephthalate)/poly(carbonate) blends during uniaxial stretching. <i>CrystEngComm</i> , <b>2017</b> , 19, 6858-6868	3.3	1
12	Conformational Energy Settled Crystallization Behaviors of Poly(L-lactic acid). <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 2552-2560	4.3	1
11	Influence of Crystallization on Molecular Dynamics of the Amorphous Phase in Poly( $\epsilon$ -caprolactone) and Poly( $\epsilon$ -caprolactone)/LiClO <sub>4</sub> Complexes Investigated by Dielectric Relaxation Spectroscopy. <i>Journal of Polymer Research</i> , <b>2013</b> , 20, 1	2.7	1
10	Crystallization behavior of polyamide 6 confined in a strip-like rubbery phase. <i>RSC Advances</i> , <b>2013</b> , 3, 26283	3.7	1
9	Monte Carlo Simulation of Phase Behavior of Polymer Blends with Special Interactions. <i>Macromolecular Theory and Simulations</i> , <b>2001</b> , 10, 750-755	1.5	1
8	End groups affected crystallization behavior of unentangled poly( $\epsilon$ -caprolactone)s. <i>Polymer</i> , <b>2022</b> , 241, 124534	3.9	1
7	Role of chain dynamics in crystal transition of isotactic polybutene-1. <i>Polymer</i> , <b>2020</b> , 210, 123029	3.9	1
6	Direct Observations on Structure Evolutions in Polyamide 6 during Deformation at High Temperatures with WAXS and SAXS. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 581-586	2.3	0
5	The enhanced I $\leftrightarrow$ II transition behaviors of an isotactic polybutene-1 alloy by a TAB-3. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 886-901	4.3	0
4	An FTIR and X-ray diffraction study of the crystal phase transition in isotactic polybutene-1. <i>Polymer Crystallization</i> , <b>2021</b> , 4, e10200	0.9	0
3	Crystallization behavior and structure of metallocene polyethylene with long-chain branch. <i>Colloid and Polymer Science</i> , 1	2.4	0

- 2 Structure/property relationship of semicrystalline polymers during tensile deformation: a molecular dynamics approach. *Colloid and Polymer Science*, 1 2.4 ○
- 1 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 2.6