Guorong Shan

List of Publications by Year
in descending order

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102	2,971	156536	214428
papers	citations	32	50
		h-index	g-index

102	102	102	3086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-evolving materials based on metastable-to-stable crystal transition of a polymorphic polyolefin. Materials Horizons, 2022, 9, 756-763.	6.4	6
2	Microstructurally tunable pickering emulsions stabilized by poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (glycol)-b-poly(Îµ architecture. Food Chemistry, 2022, 374, 131827.	4.2	3
3	Multistage Structural Ordering and Crystallization of Poly(trimethylene terephthalate) during Sub-T_g Stretching: Synergetic Effects of Chain Orientation and Conformational Transition. Macromolecules, 2022, 55, 252-261.	2.2	9
4	Light-Induced Crystalline Size Heterogeneity of Polymers Enables Programmable Writing, Morphing, and Mechanical Performance Designing. ACS Macro Letters, 2022, 11, 739-746.	2.3	2
5	Photothermal driven polymorph pattern in semicrystalline polymers towards programmable shape morphing. Chemical Engineering Journal, 2022, 446, 137346.	6.6	3
6	Isodimorphic Crystallization and Tunable Î³â€“Î± Phase Transition in Aliphatic Copolyamides: Critical Roles of Comonomer Defects and Conformational Evolution. Macromolecules, 2022, 55, 6090-6101.	2.2	11
7	Hierarchical ordering and multilayer structure of poly(Îµ-caprolactone) end-functionalized by a liquid crystalline unit: role of polymer crystallization. Polymer Chemistry, 2021, 12, 4175-4183.	1.9	2
8	Stepwise Crystallization and Induced Microphase Separation in Nucleobase-Monofunctionalized Supramolecular Poly(Îµ-caprolactone). Macromolecules, 2021, 54, 846-857.	2.2	9
9	Nucleobase-monofunctionalized supramolecular poly(<scp>l</scp>-lactide): controlled synthesis, competitive crystallization, and structural organization. Polymer Chemistry, 2021, 12, 3461-3470.	1.9	8
10	Separate crystallization and melting of polymer blocks and hydrogen bonding units in double-crystalline supramolecular polymers. Polymer, 2021, 222, 123670.	1.8	13
11	Polymorphic Phase Formation of Liquid Crystals Distributed in Semicrystalline Polymers: An Indicator of Interlamellar and Interspherulitic Segregation. Journal of Physical Chemistry Letters, 2021, 12, 4378-4384.	2.1	2
12	Temperature-dependent crystal structure and structural evolution of poly(glycolide-co-lactide) induced by comonomeric defect inclusion/exclusion. Polymer, 2021, 227, 123867.	1.8	4
13	Role of Chain Entanglements in the Stereocomplex Crystallization between Poly(lactic acid) Enantiomers. ACS Macro Letters, 2021, 10, 1023-1028.	2.3	44
14	Anisotropic bilayer hydrogels with synergistic photochromism behaviors for light-controlled actuators. Journal of Materials Science, 2021, 56, 16324-16338.	1.7	4
15	Bioinspired Stimuliâ€Responsive Hydrogel with Reversible Switching and Fluorescence Behavior Served as Lightâ€Controlled Soft Actuators. Macromolecular Materials and Engineering, 2021, 306, 2100379.	1.7	15
16	Selective adsorption and high recovery of La3+ using graphene oxide/poly (N-isopropyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (ac	6.6	36
17	A novel drug loading and release from a thermoresponsive hydrogel formed in situ emulsion polymerization. Journal of Applied Polymer Science, 2020, 137, 48669.	1.3	11
18	Stretch-induced crystalline structural evolution and cavitation of poly(butylene adipate-ran-butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	26

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19	Fast photothermal poly(NIPAM-co-Î²-cyclodextrin) supramolecular hydrogel with self-healing through hostâ€“guest interaction for intelligent light-controlled switches. Soft Matter, 2020, 16, 10558-10566.	1.2	19
20	Stereocomplexed and homocrystalline thermo-responsive physical hydrogels with a tunable network structure and thermo-responsiveness. Journal of Materials Chemistry B, 2020, 8, 7947-7955.	2.9	14
21	Stress-Free Two-Way Shape Memory Effects of Semicrystalline Polymer Networks Enhanced by Self-Nucleated Crystallization. ACS Macro Letters, 2020, 9, 1325-1331.	2.3	31
22	Controlling the Stability and Rheology of Copolyol Dispersions in Fatty Alcohol Ethoxylate (AEO9)-Stabilized Multiple Emulsions. Industrial & Engineering Chemistry Research, 2020, 59, 18307-18317.	1.8	9
23	Programmable Reversible Shape Transformation of Hydrogels Based on Transient Structural Anisotropy. Advanced Materials, 2020, 32, e2001693.	11.1	77
24	Polyether-modified siloxane stabilized dispersion system on the physical stability and control release of double (W/O/W) emulsions. Food Chemistry, 2020, 332, 127381.	4.2	11
25	Sequence-Rearranged Cocrystalline Polymer Network with Shape Reconfigurability and Tunable Switching Temperature. ACS Macro Letters, 2020, 9, 588-594.	2.3	17
26	Polymorphic homocrystallization and phase behavior of high-molecular-weight Poly(L-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 T miscible blending. Polymer, 2020, 201, 122597.	1.8	18
27	Homocrystalline mesophase formation and multistage structural transitions in stereocomplexable racemic blends of block copolymers. Polymer, 2020, 189, 122180.	1.8	13
28	Thermoresponsivity, Micelle Structure, and Thermal-Induced Structural Transition of an Amphiphilic Block Copolymer Tuned by Terminal Multiple H-Bonding Units. Langmuir, 2020, 36, 956-965.	1.6	14
29	Polymorphic crystalline structure and diversified crystalline morphology of poly(butylene adipate) blended with lowâ€molecularâ€mass liquid crystals. Polymer Crystallization, 2020, 3, e10099.	0.5	0
30	Enhanced Stability of the Dispersed Phase Stabilized by Polyether-Modified Siloxane in the Double Emulsion System: Storage Stability and Rheological Investigation. Industrial & Engineering Chemistry Research, 2020, 59, 9688-9698.	1.8	5
31	Controllable formation of unusual homocrystals in poly(<scp>L</scp>-lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (a pre-existing stereocomplexes. Journal of Applied Crystallography, 2020, 53, 1266-1275.	1.9	2
32	PSMA-b-PNIPAM copolymer micelles with both a hydrophobic segment and a hydrophilic terminal group: synthesis, micelle formation, and characterization. Colloid and Polymer Science, 2019, 297, 1353-1363.	1.0	4
33	High strength of hybrid double-network hydrogels imparted by inter-network ionic bonds. Journal of Materials Chemistry B, 2019, 7, 324-333.	2.9	26
34	Stretch-Induced Î±-to-Î² Crystal Transition and Lamellae Structural Evolution of Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.2	27
35	Promoted stereocomplex formation and twoâ€step crystallization kinetics of poly(<scp>l</scp> â€lactic) Tj ETQq1 1 0.784314 rgBT O e10057.	0.5	6
36	Fractional Crystallization Kinetics and Formation of Metastable Î²-Form Homocrystals in Poly(<scp>l</scp>-lactic acid)/Poly(<scp>d</scp>-lactic acid) Racemic Blends Induced by Precedingly Formed Stereocomplexes. Macromolecules, 2019, 52, 4655-4665.	2.2	43

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37	Tuning the Thermoresponsivity of Amphiphilic Copolymers via Stereocomplex Crystallization of Hydrophobic Blocks. ACS Macro Letters, 2019, 8, 357-362.	2.3	13
38	Polymorphic Crystal Transition and Lamellae Structural Evolution of Poly(p-dioxanone) Induced by Annealing and Stretching. Journal of Physical Chemistry B, 2019, 123, 3822-3831.	1.2	10
39	Solventâ€free ringâ€opening polymerization of lactones with hydrogenâ€bonding bisurea catalyst. Journal of Polymer Science Part A, 2019, 57, 90-100.	2.5	16
40	Formation of Mesomorphic Polymorph, Thermal-Induced Phase Transition, and Crystalline Structure-Dependent Degradable and Mechanical Properties of Poly(p-dioxanone). Crystal Growth and Design, 2019, 19, 166-176.	1.4	15
41	Stereocomplexed and Homochiral Polyurethane Elastomers with Tunable Crystallizability and Multishape Memory Effects. ACS Macro Letters, 2018, 7, 233-238.	2.3	36
42	Dualâ€Crosslink Physical Hydrogels with High Toughness Based on Synergistic Hydrogen Bonding and Hydrophobic Interactions. Macromolecular Rapid Communications, 2018, 39, e1700806.	2.0	72
43	Poly(lactic acid)/poly(ethylene glycol) stereocomplexed physical hydrogels showing thermally-induced gelâ€“solâ€“gel multiple phase transitions. Materials Chemistry Frontiers, 2018, 2, 313-322.	3.2	21
44	Triple Stimuli-Responsive N-Isopropylacrylamide Copolymer toward Metal Ion Recognition and Adsorption via a Thermally Induced Solâ€“Gel Transition. Industrial & Engineering Chemistry Research, 2017, 56, 1223-1232.	1.8	22
45	Double network hydrogels with highly enhanced toughness based on a modified first network. Soft Matter, 2017, 13, 4148-4158.	1.2	26
46	Crystallization-Driven Formation of Diversified Assemblies for Supramolecular Poly(lactic acid)s in Solution. Crystal Growth and Design, 2017, 17, 2498-2506.	1.4	23
47	Click chemistry synthesis, stereocomplex formation, and enhanced thermal properties of well-defined poly(<scp>l</scp>-lactic acid)-b-poly(<scp>d</scp>-lactic acid) stereo diblock copolymers. Polymer Chemistry, 2017, 8, 1006-1016.	1.9	52
48	Preferential Formation of Î²-Form Crystals and Temperature-Dependent Polymorphic Structure in Supramolecular Poly(<scp>l</scp>-lactic acid) Bonded by Multiple Hydrogen Bonds. Macromolecules, 2017, 50, 8619-8630.	2.2	49
49	Stereocomplexed physical hydrogels with high strength and tunable crystallizability. Soft Matter, 2017, 13, 8502-8510.	1.2	24
50	Role of added amphiphilic cationic polymer in the stabilization of inverse emulsions. Colloid and Polymer Science, 2017, 295, 2207-2215.	1.0	2
51	Crystalline and Spherulitic Morphology of Polymers Crystallized in Confined Systems. Crystals, 2017, 7, 147.	1.0	44
52	Synthesis of end-functionalized hydrogen-bonding poly(lactic acid)s and preferential stereocomplex crystallization of their enantiomeric blends. Polymer Chemistry, 2016, 7, 4891-4900.	1.9	39
53	Polymorphic Crystalline Structure and Crystal Morphology of Enantiomeric Poly(lactic acid) Blends Tailored by a Self-Assemblable Aryl Amide Nucleator. ACS Sustainable Chemistry and Engineering, 2016, 4, 2680-2688.	3.2	110
54	Thermoresponsive physical hydrogels of poly(lactic acid)/poly(ethylene glycol) stereoblock copolymers tuned by stereostructure and hydrophobic block sequence. Soft Matter, 2016, 12, 4628-4637.	1.2	51

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55	Nitroxide-mediated polymerization of methyl methacrylate by 4,4â€²-dimethoxydiphenyl-based alkoxyamine. RSC Advances, 2016, 6, 73842-73847.	1.7	4
56	Crystallization behavior and crystalline structural changes of poly(glycolic acid) investigated via temperature-variable WAXD and FTIR analysis. CrystEngComm, 2016, 18, 7894-7902.	1.3	50
57	Enantiomeric blends of high-molecular-weight poly(lactic acid)/poly(ethylene glycol) triblock copolymers: Enhanced stereocomplexation and thermomechanical properties. Polymer, 2016, 103, 376-386.	1.8	45
58	Hydrophobic association mediated physical hydrogels with high strength and healing ability. Polymer, 2016, 100, 60-68.	1.8	68
59	Polymorphic Crystallization and Crystalline Reorganization of Poly(<scp>l</scp>-lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.2	23
60	Rate acceleration for 4,4â€²-dimethoxydiphenyl nitroxide mediated polymerization of methyl methacrylate. RSC Advances, 2016, 6, 97995-98000.	1.7	4
61	Stereocomplexation of high-molecular-weight enantiomeric poly(lactic acid)s enhanced by miscible polymer blending with hydrogen bond interactions. Polymer, 2016, 98, 80-87.	1.8	80
62	Role of salt in the aqueous two-phase copolymerization of acrylamide and cationic monomers: from screening to anion-bridging. RSC Advances, 2016, 6, 59352-59359.	1.7	4
63	Promoted Stereocomplex Crystallization in Supramolecular Stereoblock Copolymers of Enantiomeric Poly(Lactic Acid)s. Crystal Growth and Design, 2016, 16, 1502-1511.	1.4	54
64	Poly(lactic acid)/poly(ethylene glycol) supramolecular diblock copolymers based on three-fold complementary hydrogen bonds: Synthesis, micellization, and stimuli responsivity. Polymer, 2016, 90, 122-131.	1.8	19
65	ABA-Type Thermoplastic Elastomers Composed of Poly(Îµ-caprolactone-co-Î´-valerolactone) Soft Midblock and Polymorphic Poly(lactic acid) Hard End blocks. ACS Sustainable Chemistry and Engineering, 2016, 4, 121-128.	3.2	65
66	Kinetic and Molecular Weight Modeling of Miniemulsion Polymerization Initiated by Oilâ€Soluble Initiators. Macromolecular Chemistry and Physics, 2015, 216, 884-893.	1.1	6
67	Competitive Stereocomplexation, Homocrystallization, and Polymorphic Crystalline Transition in Poly(<scp>l</scp>-lactic acid)/Poly(<scp>d</scp>-lactic acid) Racemic Blends: Molecular Weight Effects. Journal of Physical Chemistry B, 2015, 119, 6462-6470.	1.2	172
68	Thermoresponsive poly(Ïµ-caprolactone)-graft-poly(N-isopropylacrylamide) graft copolymers prepared by a combination of ring-opening polymerization and sequential azide-alkyne click chemistry. Polymer International, 2015, 64, 389-396.	1.6	15
69	Coreâ€“Shell Structure, Biodegradation, and Drug Release Behavior of Poly(lactic acid)/Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Ove 1527-1536.	1.6	112
70	Amphiphilic quasi-block copolymers and their self-assembled nanoparticles via thermally induced interfacial absorption in miniemulsion polymerization. RSC Advances, 2015, 5, 50118-50125.	1.7	5
71	Elastic silica aerogel using methyltrimethoxysilane precusor via ambient pressure drying. Journal of Porous Materials, 2015, 22, 1455-1463.	1.3	25
72	A green miniemulsion-based synthesis of polymeric aggregation-induced emission nanoparticles. Polymer Chemistry, 2015, 6, 6378-6385.	1.9	20

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73	Alternating poly(lactic acid)/poly(ethylene-co-butylene) supramolecular multiblock copolymers with tunable shape memory and self-healing properties. Polymer Chemistry, 2015, 6, 5899-5910.	1.9	64
74	Preparation of Janus Pd/SiO₂ Nanocomposite Particles in Inverse Miniemulsions. Langmuir, 2015, 31, 4341-4350.	1.6	23
75	In Situ Formation and Gelation Mechanism of Thermoresponsive Stereocomplexed Hydrogels upon Mixing Diblock and Triblock Poly(Lactic Acid)/Poly(Ethylene Glycol) Copolymers. Journal of Physical Chemistry B, 2015, 119, 6471-6480.	1.2	55
76	Enhancement of Crystallizability and Control of Mechanical and Shape-Memory Properties for Amorphous Enantiopure Supramolecular Copolymers via Stereocomplexation. Macromolecules, 2015, 48, 7872-7881.	2.2	49
77	Exclusive Stereocomplex Crystallization of Linear and Multiarm Star-Shaped High-Molecular-Weight Stereo Diblock Poly(lactic acid)s. Journal of Physical Chemistry B, 2015, 119, 14270-14279.	1.2	83
78	Preferential Stereocomplex Crystallization in Enantiomeric Blends of Cellulose Acetate-g-Poly(lactic acid)s with Comblike Topology. Journal of Physical Chemistry B, 2015, 119, 12689-12698.	1.2	41
79	Temperature and pH-dependent swelling and copper(<scp>ii</scp>) adsorption of poly(N-isopropylacrylamide) copolymer hydrogel. RSC Advances, 2015, 5, 62091-62100.	1.7	52
80	Highly enhanced toughness of interpenetrating network hydrogel by incorporating poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	15
81	Unique multiple solubleâ€“insoluble phase transitions in aqueous two-phase copolymerization of acrylamide and a weakly charged comonomer. Soft Matter, 2014, 10, 8913-8922.	1.2	2
82	Modeling for primary radical desorption in miniemulsion polymerization initiated by oilâ€soluble initiator. AICHE Journal, 2014, 60, 3276-3285.	1.8	5
83	Heating and Annealing Induced Structural Reorganization and Embrittlement of Solution-Crystallized Poly(<scp>l</scp>-lactic acid). Macromolecules, 2014, 47, 8126-8130.	2.2	36
84	Polylactide-b-poly(ethylene-co-butylene)-b-polylactide thermoplastic elastomers: role of polylactide crystallization and stereocomplexation on microphase separation, mechanical and shape memory properties. RSC Advances, 2014, 4, 47965-47976.	1.7	30
85	A strong and tough interpenetrating network hydrogel with ultrahigh compression resistance. Soft Matter, 2014, 10, 3850.	1.2	39
86	Enhanced Nucleation and Crystallization of Poly(<scp>l</scp>-lactic acid) by Immiscible Blending with Poly(vinylidene fluoride). Industrial & Engineering Chemistry Research, 2014, 53, 3148-3156.	1.8	60
87	Poly(Îµâ€caprolactone)â€graftâ€poly(Nâ€isopropylacrylamide) amphiphilic copolymers prepared by a combination of ringâ€opening polymerization and atom transfer radical polymerization: Synthesis, selfâ€assembly, and thermoresponsive property. Journal of Applied Polymer Science, 2014, 131, .	1.3	8
88	Effect of hydration layer on the structure of thermoâ€sensitive nanocapsules. Journal of Applied Polymer Science, 2014, 131, .	1.3	3
89	Unusual Solubleâ€“Insolubleâ€“Soluble Phase Transition in Two-Phase Copolymerization of Acrylamide and an Anionic Comonomer in a Poly(ethylene glycol) Aqueous Solution. Industrial & Engineering Chemistry Research, 2014, 53, 10681-10687.	1.8	0
90	Stabilizer-Free Aqueous Two-Phase Copolymerization of Acrylamide and Cationic Monomer: Role of Electrostatic Interactions in the Phase Separation, Colloid Morphology, and Stability. Industrial & Engineering Chemistry Research, 2014, 53, 14664-14672.	1.8	5

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91	Synthesis and Crystallization of Poly(vinyl acetate)-g-Poly(<scp>l</scp>-lactide) Graft Copolymer with Controllable Graft Density. Industrial & Engineering Chemistry Research, 2013, 52, 12897-12905.	1.8	30
92	Crystallization kinetics of bacterial poly(3â€hydroxylbutyrate) copolyesters with cyanuric acid as a nucleating agent. Journal of Applied Polymer Science, 2013, 129, 1374-1382.	1.3	31
93	Temperature-Variable FTIR and Solid-State ¹³C NMR Investigations on Crystalline Structure and Molecular Dynamics of Polymorphic Poly(<scp>l</scp>-lactide) and Poly(<scp>l</scp>-lactide)/Poly(<scp>d</scp>-lactide) Stereocomplex. Macromolecules, 2012, 45, 189-197.	2.2	206
94	Preparation of Mesoporous Submicrometer Silica Capsules via an Interfacial Solâ€“Gel Process in Inverse Miniemulsion. Langmuir, 2012, 28, 7023-7032.	1.6	42
95	Nucleation Effects of Nucleobases on the Crystallization Kinetics of Poly(<scp>L</scp>â€lactide). Macromolecular Materials and Engineering, 2012, 297, 670-679.	1.7	55
96	Modeling of twoâ€phase polymerization of acrylamide in aqueous poly(ethylene glycol) solution. AICHE Journal, 2011, 57, 2493-2504.	1.8	16
97	Stability of twoâ€phase polymerization of acrylamide in aqueous poly(ethylene glycol) solution. Journal of Applied Polymer Science, 2011, 122, 1121-1133.	1.3	15
98	Intermolecular interaction in aqueous solution of binary blends of poly(acrylamide) and poly(ethylene glycol). Journal of Applied Polymer Science, 2010, 118, 2572-2581.	1.3	22
99	MICROSTRUCTURE OF THE LATEX PREPARED THROUGH AQUEOUS TWO-PHASE POLYMERIZATION OF ACRYLAMIDE IN AQUEOUS POLY(ETHYLENE GLYCOL) SOLUTION. Acta Polymerica Sinica, 2010, 010, 647-652.	0.0	0
100	Mechanism of the droplet formation and stabilization in the aqueous twoâ€phase polymerization of acrylamide. Journal of Applied Polymer Science, 2009, 112, 2859-2867.	1.3	23
101	Synthesis of polymeric nanocapsules with a crosslinked shell through interfacial miniemulsion polymerization. Journal of Polymer Science Part A, 2009, 47, 1522-1534.	2.5	20
102	Low heat generation from organic zinc as a curing activator in rubber and rubber composites under large strain. Nano Select, 0, , .	1.9	1