Guoming Liu

List of Publications by Year
in descending order

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100 papers	3,406 citations	126858 33 h-index	161767 54 g-index
100 all docs	100 docs citations	100 times ranked	3474 citing authors

#	Article	IF	Citations
1	Unexpected Structural Properties in the Saturation Region of the Oddâ€“Even Effects in Aliphatic Polyethers: Influence of Crystallization Conditions. Macromolecules, 2022, 55, 584-594.	2.2	7
2	Stress-induced Solid-Solid Crystal Transition in Trans-1,4-polyisoprene. Chinese Journal of Polymer Science (English Edition), 2022, 40, 256-265.	2.0	9
3	Crosslinking of Trans-1,4-polyisoprene by Î³-ray radiation. Polymer Degradation and Stability, 2022, 197, 109869.	2.7	6
4	Influence of photooxidation on ionic reversible interactions of ionic poly(ether urethane)/silica hybrids. Polymer Degradation and Stability, 2022, 197, 109872.	2.7	2
5	Chain Conformation and Liquid-Crystalline Structures of a Poly(thieno)thiophene. Macromolecules, 2022, 55, 2892-2903.	2.2	7
6	æœ‰æœºé«˜åˆ†åç»“æ™¶çš„è¡¨ç•Œé¢æ•ˆåº”ï¼šä»Žæ£çƒ·çƒƒåˆ°é«˜åˆ†å Scientia Sinica Chimica, 2022, , .	0.2	1
7	Evenâ€“Odd Effect in Aliphatic Polycarbonates with Different Chain Lengths: from Poly (Hexamethylene) Tj ETQq1 1 0.784314 rgBT /Ov	2.2	26
8	Direct Relationship between Dispersion and Crystallization Behavior in Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (oxid	2.2	16
9	Composition dependent miscibility in the crystalline state of polyamide 6 /polyamide 4,10 blends: From single to double crystalline blends. Polymer, 2021, 219, 123570.	1.8	12
10	Charge transport physics of a unique class of rigid-rod conjugated polymers with fused-ring conjugated units linked by double carbon-carbon bonds. Science Advances, 2021, 7, .	4.7	28
11	Crystallization of poly(hexamethylene carbonate)-co-poly(hexamethylene urethane) segmental block copolymers: From single to double crystalline phases. Polymer, 2021, 222, 123675.	1.8	10
12	Fractionated crystallization in semicrystalline polymers. Progress in Polymer Science, 2021, 115, 101376.	11.8	48
13	Suppression of the Self-Nucleation Effect of Semicrystalline Polymers by Confinement. Macromolecules, 2021, 54, 3810-3821.	2.2	12
14	Solidâ€“Solid Crystal Transitions (Î´ to Î±) in Poly(hexamethylene carbonate) and Poly(octamethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	8
15	Confined Crystallization of Polymers within Nanopores. Accounts of Chemical Research, 2021, 54, 3028-3038.	7.6	38
16	Epitaxy in Polybutene-1 Form II-on-Form I Cross-Nucleation Revealed by Nanofocused X-ray Diffraction on Ad Hoc Morphology. Macromolecules, 2021, 54, 9663-9669.	2.2	9
17	Using Successive Self-Nucleation and Annealing to Detect the Solidâ€“Solid Transitions in Poly(hexamethylene carbonate) and Poly(octamethylene carbonate). Macromolecules, 2021, 54, 9670-9680.	2.2	6
18	Mastering Superior Performance Origins of Ionic Polyurethane/Silica Hybrids. ACS Applied Polymer Materials, 2021, 3, 6684-6693.	2.0	6

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19	Polycaprolactone Adsorption and Nucleation onto Graphite Nanoplates for Highly Flexible, Thermally Conductive, and Thermomechanically Stiff Nanopapers. ACS Applied Materials & Interfaces, 2021, , .	4.0	5
20	Verification of thermodynamic theories of strain-induced polymer crystallization. Chemical Communications, 2021, 58, 286-289.	2.2	10
21	Chain Conformation and Aggregation Structure Formation of a High Charge Mobility DPP-Based Donorâ€“Acceptor Conjugated Polymer. Macromolecules, 2020, 53, 8255-8266.	2.2	29
22	Effect of Nanoconfinement on the Isodimorphic Crystallization of Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (succinate	2.2	17
23	Effect of the Crystallization Conditions on the Exclusion/Inclusion Balance in Biodegradable Poly(butylene succinate-ran-butylene adipate) Copolymers. Biomacromolecules, 2020, 21, 3420-3435.	2.6	20
24	Crystallization, Orientation, and Solidâ€“Solid Crystal Transition of Polybutene-1 Confined within Nanoporous Alumina. Macromolecules, 2020, 53, 6510-6518.	2.2	24
25	Effect of nanoparticle and glass fiber on the hydrothermal aging of polyamide 6. Journal of Applied Polymer Science, 2020, 137, 49585.	1.3	7
26	Exploring the polymorphic behavior of a Î²â€nucleated propyleneâ€ethylene random copolymer under shear flow. Polymer Crystallization, 2020, 3, e10105.	0.5	0
27	Crystallization Kinetics of Poly(ethylene oxide) under Confinement in Nanoporous Alumina Studied by in Situ X-ray Scattering and Simulation. Langmuir, 2019, 35, 11799-11808.	1.6	12
28	Generating Triple Crystalline Superstructures in Melt Miscible PEOâ€bâ€PCLâ€bâ€PLLA Triblock Terpolymers by Controlling Thermal History and Sequential Crystallization. Macromolecular Chemistry and Physics, 2019, 220, 1900292.	1.1	12
29	How Confinement Affects the Nucleation, Crystallization, and Dielectric Relaxation of Poly(butylene) Tj ETQq1 1 0.784314 rgBT /Over 2019, 35, 15168-15179.	1.6	15
30	Chasing the â€œKillerâ€•Phonon Mode for the Rational Design of Lowâ€Disorder, Highâ€Mobility Molecular Semiconductors. Advanced Materials, 2019, 31, e1902407.	11.1	126
31	Segmental Dynamics Govern the Cold Crystallization of Poly(lactic acid) in Nanoporous Alumina. Macromolecules, 2019, 52, 6904-6912.	2.2	30
32	A comparison of non-isocyanate and HDI-based poly(ether urethane): Structure and properties. Polymer, 2019, 175, 186-194.	1.8	31
33	How cyclic chain topology can reduce the crystallization rate of poly(3-hexylthiophene) and promote the formation of liquid crystalline phases in comparison with linear analogue chains. Journal of Materials Chemistry C, 2019, 7, 6548-6558.	2.7	9
34	Reversible Lamellar Periodic Structures Induced by Sequential Crystallization/Melting in PBS-co-PCL Multiblock Copolymer. Macromolecules, 2018, 51, 1100-1109.	2.2	27
35	Nature of the double melting peaks of regioregular poly(3-dodecylthiophene). European Polymer Journal, 2018, 99, 284-288.	2.6	8
36	Interfacial nucleation in iPP/PB-1 blends promotes the formation of polybutene-1 trigonal crystals. Polymer, 2018, 138, 396-406.	1.8	43

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37	Study on the microstructure evolution of TiO₂â€reinforced HDPE nanocomposites by synchrotron small angle Xâ€ray scattering. Polymer Composites, 2018, 39, 580-587.	2.3	3
38	Uniaxial and Mixed Orientations of Poly(ethylene oxide) in Nanoporous Alumina Studied by X-ray Pole Figure Analysis. Macromolecules, 2018, 51, 9484-9493.	2.2	18
39	Deformation Mechanism of Poly(3-alkylthiophene) Studied by in Situ X-ray Scattering and Texture Analysis. Macromolecules, 2018, 51, 8306-8315.	2.2	11
40	Unexpected Synthesis of Segmented Poly(hydroxyureaâ€“urethane)s from Dicyclic Carbonates and Diamines by Organocatalysis. Macromolecules, 2018, 51, 5556-5566.	2.2	69
41	Effect of stereocomplex crystal and flexible segments on the crystallization and tensile behavior of poly(<scp>l</scp>-lactide). RSC Advances, 2018, 8, 28453-28460.	1.7	10
42	Tensile modulus enhancement and mechanism of polyimide fibers by post-thermal treatment induced microvoid evolution. European Polymer Journal, 2017, 91, 232-241.	2.6	18
43	New insights into the beta-form crystal toughening mechanism in pre-oriented PHBV films. European Polymer Journal, 2017, 91, 81-91.	2.6	11
44	Probing into the epitaxial crystallization of Î² form isotactic polypropylene: From experimental observations to molecular mechanics computation. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 418-424.	2.4	16
45	Trilayered Morphology of an ABC Triple Crystalline Triblock Terpolymer. Macromolecules, 2017, 50, 7268-7281.	2.2	32
46	Reexamining the Crystallization of Poly(Îµ-caprolactone) and Isotactic Polypropylene under Hard Confinement: Nucleation and Orientation. Macromolecules, 2017, 50, 9015-9023.	2.2	40
47	Supernucleation and Orientation of Poly(butylene terephthalate) Crystals in Nanocomposites Containing Highly Reduced Graphene Oxide. Macromolecules, 2017, 50, 9380-9393.	2.2	34
48	Correlation between stress relaxation dynamics and thermochemistry for covalent adaptive networks polymers. Materials Chemistry Frontiers, 2017, 1, 111-118.	3.2	77
49	Simultaneous improvement in strength, toughness, and thermal stability of epoxy/halloysite nanotubes composites by interfacial modification. Journal of Applied Polymer Science, 2016, 133, .	1.3	23
50	Formation of stereocomplex in enantiomeric poly(lactide)s via recrystallization of homocrystals: An in-situ X-ray scattering study. European Polymer Journal, 2016, 82, 46-56.	2.6	14
51	Application of SSA thermal fractionation and X-ray diffraction to elucidate comonomer inclusion or exclusion from the crystalline phases in poly(butylene succinate-ran-butylene azelate) random copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2346-2358.	2.4	25
52	Structural Transitions in Solution-Cast Films of a New AABB Type Thiophene Copolymer. Macromolecules, 2016, 49, 8653-8660.	2.2	5
53	Enhancement of Mechanical and Selfâ€Healing Performance in Multiwall Carbon Nanotube/Rubber Composites via Dielsâ€“Alder Bonding. Macromolecular Materials and Engineering, 2016, 301, 535-541.	1.7	85
54	Correlation between the fracture toughness and Î²â€crystal fraction in a Î²â€nucleated propyleneâ€based propyleneâ€“ethylene random copolymer. Journal of Applied Polymer Science, 2016, 133, .	1.3	1

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55	Effect of the melting temperature on the crystallization behavior of a poly(<scp>l</scp>â€lactide)/poly(<scp>d</scp>â€lactide) equimolar mixture. Journal of Applied Polymer Science, 2016, 133, .	1.3	8
56	Crystallization of equimolar poly(l-lactide)/poly(d-lactide) blend below the melting point of Î± crystals under shear. European Polymer Journal, 2016, 75, 93-103.	2.6	16
57	Sequential crystallization and morphology of triple crystalline biodegradable PEO-b-PCL-b-PLLA triblock terpolymers. RSC Advances, 2016, 6, 4739-4750.	1.7	19
58	Triple-shape memory epoxy based on Dielsâ€“Alder adduct molecular switch. Polymer, 2016, 84, 1-9.	1.8	83
59	Stress induced reversible crystal transition in polymers. Polymer International, 2015, 64, 951-956.	1.6	6
60	The influence of short-chain branching on the morphology and structure of polyethylene single crystals. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1751-1762.	2.4	11
61	Facile fabrication of fast recyclable and multiple selfâ€healing epoxy materials through dielsâ€alder adduct crossâ€linker. Journal of Polymer Science Part A, 2015, 53, 2094-2103.	2.5	138
62	A WAXS/SAXS study on the deformation behavior of Î²-nucleated propyleneâ€“ethylene random copolymer subjected to uniaxial stretching. RSC Advances, 2015, 5, 44610-44617.	1.7	18
63	How Composition Determines the Properties of Isodimorphic Poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (su Crystalline Random Copolymers. Macromolecules, 2015, 48, 43-57.	2.2	105
64	Flow-induced crystallization of long chain aliphatic polyamides under a complex flow field: Inverted anisotropic structure and formation mechanism. Polymer, 2015, 73, 91-101.	1.8	20
65	Enhancement of stereocomplex formation in poly(l-lactide)/poly(d-lactide) mixture by shear. Polymer, 2015, 72, 185-192.	1.8	57
66	Effective activation of halloysite nanotubes by piranha solution for amine modification via silane coupling chemistry. RSC Advances, 2015, 5, 52916-52925.	1.7	102
67	Functional polyester with widely tunable mechanical properties: The role of reversible cross-linking and crystallization. Polymer, 2015, 65, 202-209.	1.8	21
68	Effect of nucleating agents on the strain-induced crystallization of poly(l-lactide). Polymer, 2015, 65, 223-232.	1.8	33
69	Enhanced Crystallization from the Glassy State of Poly(<scp>l</scp>-lactic acid) Confined in Anodic Alumina Oxide Nanopores. Macromolecules, 2015, 48, 2526-2533.	2.2	54
70	Tailoring Crystallization: Towards Highâ€Performance Poly(lactic acid). Advanced Materials, 2014, 26, 6905-6911.	11.1	207
71	Structural evolution of Î² â€“ iPP during uniaxial stretching studied by inâ€“situ WAXS and SAXS. Polymer, 2014, 55, 6915-6923.	1.8	37
72	Stretching induced phase separation in poly(vinylidene fluoride)/poly(butylene succinate) blends studied by in-situ X-ray scattering. Polymer, 2014, 55, 2588-2596.	1.8	27

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73	Crystallization Features of Normal Alkanes in Confined Geometry. Accounts of Chemical Research, 2014, 47, 192-201.	7.6	80
74	Critical Stress for Crystal Transition in Poly(butylene succinate)-Based Crystallineâ€“Amorphous Multiblock Copolymers. Macromolecules, 2014, 47, 7533-7539.	2.2	44
75	Two-way shape memory property and its structural origin of cross-linked poly(Îµ-caprolactone). RSC Advances, 2014, 4, 55483-55494.	1.7	56
76	Effect of elastomer on crystalline transition and deformation behavior of isotactic polypropylene. Polymer, 2013, 54, 1440-1447.	1.8	19
77	Chain packing and phase transition of N-hexacosylated polyethyleneimine comb-like polymer: A combined investigation by synchrotron X-ray scattering and FTIR spectroscopy. Polymer, 2013, 54, 6261-6266.	1.8	15
78	Stress induced lamellar thickening in poly(ethylene succinate). Polymer, 2013, 54, 6860-6866.	1.8	13
79	The inexistence of epitaxial relationship between stereocomplex and Îł crystal of poly(lactic acid): Direct experimental evidence. Polymer, 2013, 54, 1923-1929.	1.8	33
80	Manipulating Crystal Orientation of Poly(ethylene oxide) by Nanopores. ACS Macro Letters, 2013, 2, 181-184.	2.3	62
81	Temperature dependence of crystalline transition of highly-oriented poly(l-lactide)/poly(d-lactide) blend: In-situ synchrotron X-ray scattering study. Polymer, 2013, 54, 964-971.	1.8	75
82	Large-area crack-free single-crystal photonic crystals via combined effects of polymerization-assisted assembly and flexible substrate. NPG Asia Materials, 2012, 4, e21-e21.	3.8	74
83	Reversible Lamellar Thickening Induced by Crystal Transition in Poly(butylene succinate). Macromolecules, 2012, 45, 5487-5493.	2.2	83
84	Epitaxy-Induced Crystallization of Olefin Block Copolymers. Macromolecules, 2012, 45, 5979-5985.	2.2	42
85	Binary n-Alkane Mixtures from Total Miscibility to Phase Separation in Microcapsules: Enrichment of Shorter Component in Surface Freezing and Enhanced Stability of Rotator Phases. Journal of Physical Chemistry B, 2012, 116, 3099-3105.	1.2	22
86	Correlation of miscibility and mechanical properties of polypropylene/olefin block copolymers: Effect of chain composition. Journal of Applied Polymer Science, 2012, 125, 666-675.	1.3	39
87	Epitaxial crystallization of olefin block copolymers (OBCs) on uniaxially oriented isotactic polypropylene and high-density polyethylene films. Polymer, 2012, 53, 529-535.	1.8	24
88	Deformation-mediated superstructures and cavitation of poly (l-lactide): In-situ small-angle X-ray scattering study. Polymer, 2012, 53, 648-656.	1.8	68
89	Low-molecular weight aliphatic amides as nucleating agents for poly (L-lactic acid): Conformation variation induced crystallization enhancement. Polymer, 2012, 53, 2306-2314.	1.8	72
90	Confined crystallization of binary n-alkane mixtures: stabilization of a new rotator phase by enhanced surface freezing and weakened intermolecular interactions. Physical Chemistry Chemical Physics, 2011, 13, 15031.	1.3	35

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91	Phase change materials of n-alkane-containing microcapsules: observation of coexistence of ordered and rotator phases. Physical Chemistry Chemical Physics, 2011, 13, 2021.	1.3	35
92	Crystallization Behavior of Binary Evenâ^'Even n-Alkane Mixtures in Microcapsules: Effect of Composition and Confined Geometry on Solidâ^'Solid phase Separation. Journal of Physical Chemistry B, 2011, 115, 4632-4638.	1.2	29
93	Structure variation of tensile-deformed amorphous poly(l-lactic acid): Effects of deformation rate and strain. Polymer, 2011, 52, 4141-4149.	1.8	87
94	Effect of mesophase separation and crystallization on the elastomeric behavior of olefin multi-block copolymers. Polymer, 2011, 52, 5221-5230.	1.8	62
95	Morphology and mechanical properties of binary blends of polypropylene with statistical and block ethyleneâ€œoctene copolymers. Journal of Applied Polymer Science, 2011, 119, 3591-3597.	1.3	34
96	Pore decoration on microcapsule surface using nonionic surfactant micelles as template: Temperature effect and encapsulation mechanism investigation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 384, 219-227.	2.3	11
97	Solidâ^'Solid Phase Transition of n-Alkanes in Multiple Nanoscale Confinement. Journal of Physical Chemistry B, 2010, 114, 1388-1392.	1.2	31
98	Preparation of nearly monodisperse microcapsules with controlled morphology by in situ polymerization of a shell layer. Journal of Materials Chemistry, 2009, 19, 6605.	6.7	16
99	Crystallization Behaviors of n-Octadecane in Confined Space: Crossover of Rotator Phase from Transient to Metastable Induced by Surface Freezing. Journal of Physical Chemistry B, 2008, 112, 13310-13315.	1.2	75
100	Preparation of Surface Porous Microcapsules Templated by Self-assembly of Nonionic Surfactant Micelles. Chemistry of Materials, 2008, 20, 3099-3104.	3.2	40