Stephen Z D Cheng

List of Publications by Year
in descending order

331 papers	17,944 citations	11235 73 h-index	24511 114 g-index
336 all docs	336 docs citations	336 times ranked	12311 citing authors

#	Article	IF	Citations
1	Electrospun Polyacrylonitrile Nanofibers Containing a High Concentration of Well-Aligned Multiwall Carbon Nanotubes. Chemistry of Materials, 2005, 17, 967-973.	3.2	425
2	Glass transition and melting behavior of poly(oxy-1,4-phenyleneoxy-1,4-phenylenecarbonyl-1,4-phenylene) (PEEK). Macromolecules, 1986, 19, 1868-1876.	2.2	409
3	Crystallization Temperature-Dependent Crystal Orientations within Nanoscale Confined Lamellae of a Self-Assembled Crystallineâ^'Amorphous Diblock Copolymer. Journal of the American Chemical Society, 2000, 122, 5957-5967.	6.6	387
4	Assembly of Well-Aligned Multiwalled Carbon Nanotubes in Confined Polyacrylonitrile Environments:Â Electrospun Composite Nanofiber Sheets. Journal of the American Chemical Society, 2004, 126, 15754-15761.	6.6	358
5	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. Science, 2015, 348, 424-428.	6.0	338
6	Molecular Nanoparticles Are Unique Elements for Macromolecular Science: From â€œNanoatomsâ€•to Giant Molecules. Macromolecules, 2014, 47, 1221-1239.	2.2	308
7	Simultaneously Strong and Tough Ultrafine Continuous Nanofibers. ACS Nano, 2013, 7, 3324-3331.	7.3	262
8	Self-Assembled Polystyrene-block-poly(ethylene oxide) Micelle Morphologies in Solution. Macromolecules, 2006, 39, 4880-4888.	2.2	241
9	A Giant Surfactant of Polystyreneâ^'(Carboxylic Acid-Functionalized Polyhedral Oligomeric) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 the American Chemical Society, 2010, 132, 16741-16744.	6.6	235
10	Title is missing!. Die Makromolekulare Chemie, 1988, 189, 2443-2458.	1.1	224
11	Glass transition and melting behavior of poly(ethylene 2,6-naphthalenedicarboxylate). Macromolecules, 1988, 21, 789-797.	2.2	218
12	Glass transition and melting behavior of poly(thio-1,4-phenylene). Macromolecules, 1987, 20, 2802-2810.	2.2	215
13	Temperature-Induced Reversible Morphological Changes of Polystyrene-block-Poly(ethylene Oxide) Micelles in Solution. Journal of the American Chemical Society, 2007, 129, 1113-1121.	6.6	206
14	Giant surfactants provide a versatile platform for sub-10-nm nanostructure engineering. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10078-10083.	3.3	202
15	Geometry induced sequence of nanoscale Frankâ€“Kasper and quasicrystal mesophases in giant surfactants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14195-14200.	3.3	201
16	Nanopattern Formation from Tethered PS-b-PMMA Brushes upon Treatment with Selective Solvents. Journal of the American Chemical Society, 2000, 122, 2407-2408.	6.6	186
17	Crystal Orientation Changes in Two-Dimensionally Confined Nanocylinders in a Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.2	160
18	Onsets of Tethered Chain Overcrowding and Highly Stretched Brush Regime via Crystallineâ^'Amorphous Diblock Copolymers. Macromolecules, 2006, 39, 641-650.	2.2	159

#	Article	IF	Citations
19	50th Anniversary Perspective: Polymer Crystals and Crystallization: Personal Journeys in a Challenging Research Field. Macromolecules, 2017, 50, 5995-6025.	2.2	155
20	Initial-Stage Growth Controlled Crystal Orientations in Nanoconfined Lamellae of a Self-Assembled Crystallineâ"Amorphous Diblock Copolymer. Macromolecules, 2001, 34, 1244-1251.	2.2	152
21	Synthesis, Characterization, and Properties of ABA Type Triblock Copolymer Brushes of Styrene and Methyl Acrylate Prepared by Atom Transfer Radical Polymerization. Macromolecules, 2002, 35, 4960-4967.	2.2	151
22	Multiwalled Carbon Nanotubes with Chemically Grafted Polyetherimides. Journal of the American Chemical Society, 2005, 127, 9984-9985.	6.6	151
23	Breaking Symmetry toward Nonspherical Janus Particles Based on Polyhedral Oligomeric Silsesquioxanes: Molecular Design, â€œClickâ€•Synthesis, and Hierarchical Structure. Journal of the American Chemical Society, 2011, 133, 10712-10715.	6.6	148
24	Stoichiometric Self-Assembly of Shape-Persistent 2D Complexes: A Facile Route to a Symmetric Supramacromolecular Spoked Wheel. Journal of the American Chemical Society, 2011, 133, 11450-11453.	6.6	147
25	Rubbing-Induced Molecular Reorientation on an Alignment Surface of an Aromatic Polyimide Containing Cyanobiphenyl Side Chains. Journal of the American Chemical Society, 2001, 123, 5768-5776.	6.6	145
26	Kinetics of mesophase transitions in thermotropic copolyesters. 1. Calorimetric study. Macromolecules, 1988, 21, 2475-2484.	2.2	143
27	Giant Molecular Shape Amphiphiles Based on Polystyreneâ€"Hydrophilic [60]Fullerene Conjugates: Click Synthesis, Solution Self-Assembly, and Phase Behavior. Journal of the American Chemical Society, 2012, 134, 7780-7787.	6.6	138
28	Three-dimensional actuators transformed from the programmed two-dimensional structures via bending, twisting and folding mechanisms. Journal of Materials Chemistry, 2011, 21, 6824.	6.7	136
29	Addendum to the thermal properties of polypropylene. Die Makromolekulare Chemie Rapid Communications, 1988, 9, 75-77.	1.1	135
30	Confinement Size Effect on Crystal Orientation Changes of Poly(ethylene oxide) Blocks in Poly(ethylene oxide)-b-polystyrene Diblock Copolymers. Macromolecules, 2004, 37, 3689-3698.	2.2	130
31	Molecular Weight Dependence of Phase Structures and Transitions of Mesogen-Jacketed Liquid Crystalline Polymers Based on 2-Vinylterephthalic Acids. Macromolecules, 2004, 37, 7188-7196.	2.2	129
32	Regime transitions in fractions of isotactic polypropylene. Macromolecules, 1990, 23, 298-303.	2.2	126
33	Isotacticity effect on crystallization and melting in polypropylene fractions. II. Linear crystal growth rate and morphology study. Macromolecules, 1991, 24, 2253-2260.	2.2	125
34	Phase structures and morphologies determined by competitions among self-organization, crystallization, and vitrification in a disordered poly(ethylene oxide)-b-polystyrene diblock copolymer. Physical Review B, 1999, 60, 10022-10031.	1.1	125
35	â€œChemically Shieldedâ€•Poly(ethylene oxide) Single Crystal Growth and Construction of Channel-Wire Arrays with Chemical and Geometric Recognitions on a Submicrometer Scale. Macromolecules, 2004, 37, 5292-5299.	2.2	122
36	AFM Study of Tethered Polystyrene-b-poly(methyl methacrylate) and Polystyrene-b-poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.2	121

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37	â€œClickingâ€•Fullerene with Polymers:Â Synthesis of [60]Fullerene End-Capped Polystyrene. Macromolecules, 2008, 41, 515-517.	2.2	118
38	Two-Dimensional Nanocrystals of Molecular Janus Particles. Journal of the American Chemical Society, 2014, 136, 10691-10699.	6.6	117
39	Organo-Soluble Polyimides:Â Synthesis and Polymerization of 2,2â€˜-Bis(trifluoromethyl)-4,4â€˜,5,5â€˜-Biphenyltetracarboxylic Dianhydride. Macromolecules, 1998, 31, 2080-2086.	2.2	116
40	High performance aromatic polyimide fibers, 3. A polyimide synthesized from 3,3â€²,4,4â€²-biphenyltetracarboxylic dianhydride and 2,2â€²-dimethyl-4,4â€²-diaminobiphenyl. Macromolecular Chemistry and Physics, 1994, 195, 2207-2225.	1.1	114
41	Identification of a Frankâ€“Kasper Z phase from shape amphiphile self-assembly. Nature Chemistry, 2019, 11, 899-905.	6.6	114
42	Onset of Tethered Chain Overcrowding. Physical Review Letters, 2004, 93, 028301.	2.9	113
43	Giant gemini surfactants based on polystyreneâ€“hydrophilic polyhedral oligomeric silsesquioxane shape amphiphiles: sequential â€œclickâ€•chemistry and solution self-assembly. Chemical Science, 2013, 4, 1345.	3.7	111
44	Isothermal thickening and thinning processes in low molecular-weight poly(ethylene oxide) fractions crystallized from the melt. 3. Molecular weight dependence. Macromolecules, 1992, 25, 1453-1460.	2.2	103
45	Organosoluble, segmented rigid-rod polyimide film. 1. Structure formation. Macromolecules, 1991, 24, 5856-5862.	2.2	100
46	High Performance Planar Heterojunction Perovskite Solar Cells with Fullerene Derivatives as the Electron Transport Layer. ACS Applied Materials & Interfaces, 2015, 7, 1153-1159.	4.0	99
47	Synthesis of Shape Amphiphiles Based on Functional Polyhedral Oligomeric Silsesquioxane End-Capped Poly(<scp>l</scp>-Lactide) with Diverse Head Surface Chemistry. Macromolecules, 2011, 44, 2589-2596.	2.2	98
48	Molecular segregation and nucleation of poly(ethylene oxide) crystallized from the melt. I. Calorimetric study. Journal of Polymer Science, Part B: Polymer Physics, 1986, 24, 577-594.	2.4	96
49	THE ROLE OF METASTABLE STATES IN POLYMER PHASE TRANSITIONS: Concepts, Principles, and Experimental Observations. Annual Review of Materials Research, 1998, 28, 533-562.	5.5	96
50	Double Twist in Helical Polymer â€œSoftâ€•Crystals. Physical Review Letters, 1999, 83, 4558-4561.	2.9	95
51	Monotropic liquid crystal behavior in two poly(ester imides) with even and odd flexible spacers. Macromolecules, 1992, 25, 5060-5068.	2.2	94
52	Isothermal thickening and thinning processes in low-molecular-weight poly(ethylene oxide) fractions. 1. From nonintegral-folding to integral-folding chain crystal transitions. Macromolecules, 1991, 24, 3937-3944.	2.2	93
53	Precise Molecular Fission and Fusion: Quantitative Selfâ€Assembly and Chemistry of a Metalloâ€Cuboctahedron. Angewandte Chemie - International Edition, 2015, 54, 9224-9229.	7.2	93
54	Glass transition and melting behavior of poly(oxy-2,6-dimethyl-1,4-phenylene). Macromolecules, 1987, 20, 1630-1637.	2.2	91

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55	Molecular Orientations in Flat-Elongated and Helical Lamellar Crystals of a Main-Chain Nonracemic Chiral Polyester. Journal of the American Chemical Society, 2000, 122, 72-79.	6.6	91
56	Nanotailored Crystalline Morphology in Hexagonally Perforated Layers of a Self-Assembled PS-b-PEO Diblock Copolymer. Macromolecules, 2002, 35, 3553-3562.	2.2	90
57	Self-Assembly of Porphyrin and Fullerene Supramolecular Complex into Highly Ordered Nanostructure by Simple Thermal Annealing. Chemistry of Materials, 2008, 20, 3551-3553.	3.2	90
58	Nonintegral and integral folding crystal growth in low-molecular mass poly (ethylene oxide) fractions. III. Linear crystal growth rates and crystal morphology. Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 311-327.	2.4	87
59	Isothermal thickening and thinning processes in low-molecular-weight poly(ethylene oxide) fractions crystallized from the melt. 4. End-group dependence. Macromolecules, 1993, 26, 5105-5117.	2.2	85
60	Sequential â€œClickâ€•Approach to Polyhedral Oligomeric Silsesquioxane-Based Shape Amphiphiles. Macromolecules, 2012, 45, 8126-8134.	2.2	85
61	Ordered structures in a series of liquid-crystalline poly(ester imides). Macromolecules, 1993, 26, 3687-3697.	2.2	83
62	Left or Right, It Is a Matter of One Methylene Unit. Journal of the American Chemical Society, 2001, 123, 2462-2463.	6.6	83
63	Synthesis, Self-assembly, and Crystal Structure of a Shape-Persistent Polyhedral-Oligosilsesquioxane-Nanoparticle-Tethered Perylene Diimide. Journal of Physical Chemistry B, 2010, 114, 4802-4810.	1.2	83
64	Solution Crystallization Behavior of Crystallineâ^'Crystalline Diblock Copolymers of Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	83
65	A Porphyrinâ€“Fullerene Dyad with a Supramolecular â€œDoubleâ€Cableâ€•Structure as a Novel Electron Acceptor for Bulk Heterojunction Polymer Solar Cells. Advanced Materials, 2011, 23, 2951-2956.	11.1	83
66	Selfâ€•Assembly of a Supramolecular, Threeâ€Dimensional, Spoked, Bicycleâ€like Wheel. Angewandte Chemie - International Edition, 2013, 52, 7728-7731.	7.2	81
67	Manipulating Supramolecular Self-Assembly via Tailoring Pendant Group Size of Linear Vinyl Polymers. Journal of the American Chemical Society, 2003, 125, 6854-6855.	6.6	80
68	Construction of a Highly Symmetric Nanosphere via a One-Pot Reaction of a Tristerpyridine Ligand with Ru(II). Journal of the American Chemical Society, 2014, 136, 8165-8168.	6.6	80
69	Manipulation of Self-Assembled Nanostructure Dimensions in Molecular Janus Particles. ACS Nano, 2016, 10, 6585-6596.	7.3	79
70	Synthesis of Shape Amphiphiles Based on POSS Tethered with Two Symmetric/Asymmetric Polymer Tails via Sequential â€œGrafting-fromâ€•and Thiolâ€“Ene â€œClickâ€•Chemistry. ACS Macro Letters, 2012, 1, 834-839.	2.3	78
71	Modification of the Avrami treatment of crystallization to account for nucleus and interface. Macromolecules, 1988, 21, 3327-3328.	2.2	76
72	Toward Controlled Hierarchical Heterogeneities in Giant Molecules with Precisely Arranged Nano Building Blocks. ACS Central Science, 2016, 2, 48-54.	5.3	76

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73	Molecular segregation and nucleation of poly(ethylene oxide) crystallized from the melt. II. Kinetic study. Journal of Polymer Science, Part B: Polymer Physics, 1986, 24, 595-617.	2.4	75
74	The origin of Î² relaxations in segmented rigid-rod polyimide and copolyimide films. Polymer Engineering and Science, 1993, 33, 1373-1380.	1.5	74
75	Nonintegral and integral folding crystal growth in low-molecular mass poly(ethylene oxide) fractions. I. Isothermal lamellar thickening and thinning. Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 287-297.	2.4	72
76	Gel/sol and liquid-crystalline transitions in solution of a rigid-rod polyimide. Macromolecules, 1991, 24, 1883-1889.	2.2	71
77	Crystallization, Melting and Morphology of Syndiotactic Polypropylene Fractions. 4. In Situ Lamellar Single Crystal Growth and Melting in Different Sectors. Macromolecules, 2000, 33, 6861-6868.	2.2	69
78	Giant surfactants based on molecular nanoparticles: Precise synthesis and solution selfâ€assembly. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1309-1325.	2.4	69
79	Hierarchical Self-Organization of AB_n Dendron-like Molecules into a Supramolecular Lattice Sequence. ACS Central Science, 2017, 3, 860-867.	5.3	69
80	Synthesis and Properties of Planar Liquid-Crystalline Bisphenazines. Chemistry of Materials, 2004, 16, 4912-4915.	3.2	68
81	Pathway toward Large Two-Dimensional Hexagonally Patterned Colloidal Nanosheets in Solution. Journal of the American Chemical Society, 2015, 137, 1392-1395.	6.6	68
82	Liquid Crystal Transition and Crystallization Kinetics in Poly(ester imide)s. Macromolecules, 1994, 27, 5794-5802.	2.2	67
83	Hierarchical structure and polymorphism of a sphere-cubic shape amphiphile based on a polyhedral oligomeric silsesquioxaneâ€“[60]fullerene conjugate. Journal of Materials Chemistry, 2011, 21, 14240.	6.7	67
84	Self-assembled â€œSupra-molecularâ€•Structures via Hydrogen Bonding and Aromatic/Aliphatic Microphase Separation on Different Length Scales in Symmetric-Tapered Bisamides. Chemistry of Materials, 2004, 16, 1014-1025.	3.2	66
85	Induction of Smectic Layering in Nematic Liquid Crystals Using Immiscible Components. 2. Laterally Attached Side-Chain Liquid-Crystalline Poly(norbornene)s and Their Low-Molar-Mass Analogues with Hydrocarbon/Oligodimethylsiloxane Substituents. Macromolecules, 1998, 31, 5188-5200.	2.2	65
86	Crystal Orientation Change and Its Origin in One-Dimensional Nanoconfinement Constructed by Polystyrene-block-poly(ethylene oxide) Single Crystal Mats. Macromolecules, 2008, 41, 8114-8123.	2.2	65
87	Crystallization, Melting, and Morphology of Syndiotactic Polypropylene Fractions. 3. Lamellar Single Crystals and Chain Folding. Macromolecules, 1996, 29, 6575-6581.	2.2	64
88	Crystal Morphology and Phase Identifications in Poly(aryl ether ketone)s and Their Copolymers. 1. Polymorphism in PEKK. Macromolecules, 1994, 27, 2136-2140.	2.2	63
89	Dislocation-Controlled Perforated Layer Phase in a PEO- b-PS Diblock Copolymer. Physical Review Letters, 2001, 86, 6030-6033.	2.9	63
90	Mesophase behavior in thermotropic polyethers based on the semi-flexible mesogen 1-(4-hydroxyphenyl)-2-(2-methyl-4-hydroxyphenyl)ethane. Macromolecules, 1992, 25, 2112-2121.	2.2	62

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91	Phase Structures, Transition Behaviors, and Surface Alignment in Polymers Containing Rigid-Rodlike Backbones with Flexible Side Chains. 1. Monotropic Phase Behavior in a Main-Chain/Side-Chain Liquid Crystalline Polyester. Macromolecules, 1997, 30, 6498-6506.	2.2	62
92	Tuning â€œthiol-eneâ€•reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. Chemical Science, 2014, 5, 1046-1053.	3.7	61
93	Self-Assembly-Induced Supramolecular Hexagonal Columnar Liquid Crystalline Phase Using Laterally Attached Nonmesogenic Templates. Macromolecules, 2000, 33, 6315-6320.	2.2	60
94	Phase Structures and Self-assembled Helical Suprastructures via Hydrogen Bonding in a Series of Achiral 4-Biphenyl Carboxylic Acid Compounds. Chemistry of Materials, 2005, 17, 2852-2865.	3.2	60
95	Poly(ethylene oxide) Crystallization within a One-Dimensional Defect-Free Confinement on the Nanoscale. Macromolecules, 2008, 41, 4794-4801.	2.2	59
96	â€œPlastic Deformationâ€•Mechanism and Phase Transformation in a Shear-Induced Metastable Hexagonally Perforated Layer Phase of a Polystyrene-b-poly(ethylene oxide) Diblock Copolymer. Macromolecules, 2003, 36, 3180-3188.	2.2	58
97	Phase behaviors and supra-molecular structures of a series of symmetrically tapered bisamides. Soft Matter, 2006, 2, 232.	1.2	58
98	Poly(ethylene oxide) Crystal Orientation Change under 1D Nanoscale Confinement using Polystyrene-block-poly(ethylene oxide) Copolymers: Confined Dimension and Reduced Tethering Density Effects. Macromolecules, 2009, 42, 8343-8352.	2.2	57
99	Sequenceâ€Mandated, Distinct Assembly of Giant Molecules. Angewandte Chemie - International Edition, 2017, 56, 15014-15019.	7.2	57
100	Double-Twisted Helical Lamellar Crystals in a Synthetic Main-Chain Chiral Polyester Similar to Biological Polymers. Macromolecules, 1999, 32, 524-527.	2.2	56
101	From crystals to columnar liquid crystal phases: molecular design, synthesis and phase structure characterization of a series of novel phenazines potentially useful in photovoltaic applications. Soft Matter, 2010, 6, 100-112.	1.2	55
102	Crystalline Organic Pigment-Based Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 21891-21899.	4.0	55
103	Origin of Self-Assembled Helical Supramolecular Structures in Achiral C6 Biphenyl Carboxylic Acid Compounds. Chemistry of Materials, 2006, 18, 680-690.	3.2	54
104	Exploring shape amphiphiles beyond giant surfactants: molecular design and click synthesis. Polymer Chemistry, 2013, 4, 1056-1067.	1.9	54
105	Highly Asymmetric Phase Behaviors of Polyhedral Oligomeric Silsesquioxane-Based Multiheaded Giant Surfactants. ACS Nano, 2018, 12, 1868-1877.	7.3	54
106	Phase Identification in a Series of Liquid Crystalline TPP Polyethers and Copolyethers Having Highly Ordered Mesophase Structures. 1. Phase Diagrams of Odd-Numbered TPP Polyethers. Macromolecules, 1996, 29, 294-305.	2.2	52
107	Sequential Triple â€œClickâ€•Approach toward Polyhedral Oligomeric Silsesquioxane-Based Multiheaded and Multitailed Giant Surfactants. ACS Macro Letters, 2013, 2, 645-650.	2.3	52
108	Thermoresponsive Bacterial Cellulose Whisker/Poly(NIPAM-co-BMA) Nanogel Complexes: Synthesis, Characterization, and Biological Evaluation. Biomacromolecules, 2013, 14, 1078-1084.	2.6	52

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109	A Noncrystallization Approach toward Uniform Thylakoids-like 2D â€œNano-coinsâ€•and Their Grana-like 3D Suprastructures. Journal of the American Chemical Society, 2017, 139, 5883-5889.	6.6	52
110	Nonintegral and integral folding crystal growth in low-molecular mass poly (ethylene oxide) fractions. II. End-group effect: Î±,ï‰-methoxy-poly (ethylene oxide). Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 299-310.	2.4	51
111	Topologically Directed Assemblies of Semiconducting Sphereâ€“Rod Conjugates. Journal of the American Chemical Society, 2017, 139, 18616-18622.	6.6	51
112	Crystallization and morphology of semicrystalline polyimides. Macromolecules, 1991, 24, 1890-1898.	2.2	50
113	Effects of the phase-separated melt on crystallization behavior and morphology in short chain branched metallocene polyethylenes. Journal of Macromolecular Science - Physics, 1997, 36, 41-60.	0.4	48
114	Early-Stage Formation of Helical Single Crystals and Their Confined Growth in Thin Film. Macromolecules, 2001, 34, 3634-3641.	2.2	48
115	Frustrated Molecular Packing in Highly Ordered Smectic Phase of Side-Chain Liquid Crystalline Polymer with Rigid Polyacetylene Backbone. Journal of the American Chemical Society, 2005, 127, 7668-7669.	6.6	47
116	Tunable Affinity and Molecular Architecture Lead to Diverse Self-Assembled Supramolecular Structures in Thin Films. ACS Nano, 2016, 10, 919-929.	7.3	47
117	Molecular segregation and nucleation of poly(ethylene oxide) crystallized from the melt. III. Morphological study. Journal of Polymer Science, Part B: Polymer Physics, 1988, 26, 1947-1964.	2.4	46
118	Nucleation control in polymer crystallization: structural and morphological probes in different lengthâ€“ and timeâ€“scales for selection processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 517-537.	1.6	46
119	Fluorinated polyhedral oligomeric silsesquioxane-based shape amphiphiles: molecular design, topological variation, and facile synthesis. Polymer Chemistry, 2012, 3, 2112.	1.9	46
120	Asymmetric Giant â€œBolaform-likeâ€•Surfactants: Precise Synthesis, Phase Diagram, and Crystallization-Induced Phase Separation. Macromolecules, 2014, 47, 4622-4633.	2.2	46
121	Self-Assembled Structures of Giant Surfactants Exhibit a Remarkable Sensitivity on Chemical Compositions and Topologies for Tailoring Sub-10 nm Nanostructures. Macromolecules, 2017, 50, 303-314.	2.2	46
122	Self-Assembly of Chemically Linked Rodâ^'Disc Mesogenic Liquid Crystals. Journal of Physical Chemistry B, 2007, 111, 767-777.	1.2	45
123	Mesophase Identifications in a Series of Liquid Crystalline TPP Polyethers and Copolyethers Having Highly Ordered Mesophase Structures. 2. Phase Diagram of Even-Numbered Polyethers. Macromolecules, 1996, 29, 3421-3431.	2.2	44
124	Supramolecular Structure of Î²-Cyclodextrin and Poly(ethylene oxide)-block-poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	44
125	Synthesis of fullerene-containing poly(ethylene oxide)-block-polystyrene as model shape amphiphiles with variable composition, diverse architecture, and high fullerene functionality. Polymer Chemistry, 2012, 3, 124-134.	1.9	44
126	Molecularâ€Curvatureâ€•Induced Spontaneous Formation of Curved and Concentric Lamellae through Nucleation. Angewandte Chemie - International Edition, 2016, 55, 2459-2463.	7.2	44

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127	A Supramolecular â€œDoubleâ€Cableâ€•Structure with a 129₄₄ Helix in a Columnar Porphyrinâ€C₆₀ Dyad and its Application in Polymer Solar Cells. Advanced Energy Materials, 2012, 2, 1375-1382.	10.2	43
128	Heat capacities and entropies of liquid, high-melting-point polymers containing phenylene groups (PEEK, PC, and PET). Journal of Polymer Science, Part B: Polymer Physics, 1986, 24, 1755-1765.	2.4	42
129	Synthesis and Properties of Polyimides Containing Multiple Alkyl Side Chains. Macromolecules, 2007, 40, 889-900.	2.2	42
130	Isothermal Thickening and Thinning Processes in Low-Molecular-Weight Poly(ethylene oxide) Fractions Crystallized from the Melt. 8. Molecular Shape DependenceÂ§. Macromolecules, 1999, 32, 4784-4793.	2.2	41
131	Surfaceâ€Induced Polymer Crystallization in High Volume Fraction Aligned Carbon Nanotubeâ€“Polymer Composites. Macromolecular Chemistry and Physics, 2010, 211, 1003-1011.	1.1	41
132	Cascading One-Pot Synthesis of Single-Tailed and Asymmetric Multitailed Giant Surfactants. ACS Macro Letters, 2013, 2, 1026-1032.	2.3	41
133	Patternable Conjugated Polymers with Latent Hydrogen-Bonding on the Main Chain. Macromolecules, 2014, 47, 8479-8486.	2.2	41
134	Self-diffusion of poly (ethylene oxide) fractions and its influence on the crystalline texture. Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 515-525.	2.4	40
135	Polymer decoration study in chain folding behavior of solution-grown poly(ethylene oxide) crystals. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1851-1855.	2.4	40
136	Polymorphism and crystal structure identification in poly(aryl ether ketone ketone)s. Macromolecular Chemistry and Physics, 1996, 197, 185-213.	1.1	40
137	A New Route To Stabilize the Smectic C Phase in a Series of Laterally Attached Side-Chain Liquid Crystalline Polynorbornenes with a One-Carbon Spacer. Macromolecules, 2000, 33, 8983-8991.	2.2	40
138	Crystal Growth Mechanism Changes in Pseudo-Dewetted Poly(ethylene oxide) Thin Layers. Macromolecules, 2007, 40, 1570-1578.	2.2	40
139	Anionic Synthesis of Mono- and Heterotelechelic Polystyrenes via Thiolâ€“Ene â€œClickâ€•Chemistry and Hydrosilylation. Macromolecules, 2011, 44, 3328-3337.	2.2	40
140	Polymer crystals downsized. Nature, 2007, 448, 1006-1007.	13.7	39
141	Stable, trinuclear Zn(ii)- and Cd(ii)-metallocycles: TWIM-MS, photophysical properties, and nanofiber formation. Dalton Transactions, 2012, 41, 11573.	1.6	39
142	Selfâ€Assembly of Fullereneâ€Based Janus Particles in Solution: Effects of Molecular Architecture and Solvent. Chemistry - A European Journal, 2014, 20, 11630-11635.	1.7	39
143	Toward rational and modular molecular design in soft matter engineering. Chinese Journal of Polymer Science (English Edition), 2015, 33, 797-814.	2.0	39
144	Frank-Kasper and related quasicrystal spherical phases in macromolecules. Science China Chemistry, 2018, 61, 33-45.	4.2	39

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145	Transition Kinetics of Self-Assembled Supramolecular Dodecagonal Quasicrystal and Frankâ€“Kasper Ïƒ Phases in AB_n Dendron-Like Giant Molecules. ACS Macro Letters, 2019, 8, 875-881.	2.3	39
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