

Stephen Z D Cheng

List of Publications by Year
in descending order

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papers

17,944
citations

9786

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docs citations

336
times ranked

10709
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.	6.7	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.	4.8	409
3	Crystallization Temperature-Dependent Crystal Orientations within Nanoscale Confined Lamellae of a Self-Assembled Crystalline~Amorphous Diblock Copolymer. Journal of the American Chemical Society, 2000, 122, 5957-5967.	13.7	387
4	Assembly of Well-Aligned Multiwalled Carbon Nanotubes in Confined Polyacrylonitrile Environments:~Electrospun Composite Nanofiber Sheets. Journal of the American Chemical Society, 2004, 126, 15754-15761.	13.7	358
5	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. Science, 2015, 348, 424-428.	12.6	338
6	Molecular Nanoparticles Are Unique Elements for Macromolecular Science: From ~Nanoatoms~to Giant Molecules. Macromolecules, 2014, 47, 1221-1239.	4.8	308
7	Simultaneously Strong and Tough Ultrafine Continuous Nanofibers. ACS Nano, 2013, 7, 3324-3331.	14.6	262
8	Self-Assembled Polystyrene-block-poly(ethylene oxide) Micelle Morphologies in Solution. Macromolecules, 2006, 39, 4880-4888.	4.8	241
9	A Giant Surfactant of Polystyrene~(Carboxylic Acid-Functionalized Polyhedral Oligomeric) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 the American Chemical Society, 2010, 132, 16741-16744.	13.7	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.	4.8	218
12	Glass transition and melting behavior of poly(thio-1,4-phenylene). Macromolecules, 1987, 20, 2802-2810.	4.8	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.	13.7	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.	7.1	202
15	Geometry induced sequence of nanoscale Frank~Kasper and quasicrystal mesophases in giant surfactants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14195-14200.	7.1	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.	13.7	186
17	Crystal Orientation Changes in Two-Dimensionally Confined Nanocylinders in a Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	4.8	160
18	Onsets of Tethered Chain Overcrowding and Highly Stretched Brush Regime via Crystalline~Amorphous Diblock Copolymers. Macromolecules, 2006, 39, 641-650.	4.8	159

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19	<i>50th Anniversary Perspective</i>: Polymer Crystals and Crystallization: Personal Journeys in a Challenging Research Field. <i>Macromolecules</i> , 2017, 50, 5995-6025.	4.8	155
20	Initial-Stage Growth Controlled Crystal Orientations in Nanoconfined Lamellae of a Self-Assembled Crystalline~Amorphous Diblock Copolymer. <i>Macromolecules</i> , 2001, 34, 1244-1251.	4.8	152
21	Synthesis, Characterization, and Properties of ABA Type Triblock Copolymer Brushes of Styrene and Methyl Acrylate Prepared by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2002, 35, 4960-4967.	4.8	151
22	Multiwalled Carbon Nanotubes with Chemically Grafted Polyetherimides. <i>Journal of the American Chemical Society</i> , 2005, 127, 9984-9985.	13.7	151
23	Breaking Symmetry toward Nonspherical Janus Particles Based on Polyhedral Oligomeric Silsesquioxanes: Molecular Design, ~Click~Synthesis, and Hierarchical Structure. <i>Journal of the American Chemical Society</i> , 2011, 133, 10712-10715.	13.7	148
24	Stoichiometric Self-Assembly of Shape-Persistent 2D Complexes: A Facile Route to a Symmetric Supramacromolecular Spoked Wheel. <i>Journal of the American Chemical Society</i> , 2011, 133, 11450-11453.	13.7	147
25	Rubbing-Induced Molecular Reorientation on an Alignment Surface of an Aromatic Polyimide Containing Cyanobiphenyl Side Chains. <i>Journal of the American Chemical Society</i> , 2001, 123, 5768-5776.	13.7	145
26	Kinetics of mesophase transitions in thermotropic copolyesters. 1. Calorimetric study. <i>Macromolecules</i> , 1988, 21, 2475-2484.	4.8	143
27	Giant Molecular Shape Amphiphiles Based on Polystyrene~Hydrophilic [60]Fullerene Conjugates: Click Synthesis, Solution Self-Assembly, and Phase Behavior. <i>Journal of the American Chemical Society</i> , 2012, 134, 7780-7787.	13.7	138
28	Three-dimensional actuators transformed from the programmed two-dimensional structures via bending, twisting and folding mechanisms. <i>Journal of Materials Chemistry</i> , 2011, 21, 6824.	6.7	136
29	Addendum to the thermal properties of polypropylene. <i>Die Makromolekulare Chemie Rapid Communications</i> , 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. <i>Macromolecules</i> , 2004, 37, 3689-3698.	4.8	130
31	Molecular Weight Dependence of Phase Structures and Transitions of Mesogen-Jacketed Liquid Crystalline Polymers Based on 2-Vinylterephthalic Acids. <i>Macromolecules</i> , 2004, 37, 7188-7196.	4.8	129
32	Regime transitions in fractions of isotactic polypropylene. <i>Macromolecules</i> , 1990, 23, 298-303.	4.8	126
33	Isotacticity effect on crystallization and melting in polypropylene fractions. II. Linear crystal growth rate and morphology study. <i>Macromolecules</i> , 1991, 24, 2253-2260.	4.8	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. <i>Physical Review B</i> , 1999, 60, 10022-10031.	3.2	125
35	~Chemically Shielded~Poly(ethylene oxide) Single Crystal Growth and Construction of Channel-Wire Arrays with Chemical and Geometric Recognitions on a Submicrometer Scale. <i>Macromolecules</i> , 2004, 37, 5292-5299.	4.8	122
36	AFM Study of Tethered Polystyrene-b-poly(methyl methacrylate) and Polystyrene-b-poly(methyl Tj ETQqO O O rgBT /Qverlock 10 Tf 50 62	4.8	121

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37	“Clicking” Fullerene with Polymers: Synthesis of [60] Fullerene End-Capped Polystyrene. <i>Macromolecules</i> , 2008, 41, 515-517.	4.8	118
38	Two-Dimensional Nanocrystals of Molecular Janus Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 10691-10699.	13.7	117
39	Organo-Soluble Polyimides: Synthesis and Polymerization of 2,2-Bis(trifluoromethyl)-4,4',5,5'-Biphenyltetracarboxylic Dianhydride. <i>Macromolecules</i> , 1998, 31, 2080-2086.	4.8	116
40	High performance aromatic polyimide fibers, 3. A polyimide synthesized from 3,3',4,4'-biphenyltetracarboxylic dianhydride and 2,2'-dimethyl-4,4'-diaminobiphenyl. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 2207-2225.	2.2	114
41	Identification of a Frank-Kasper Z phase from shape amphiphile self-assembly. <i>Nature Chemistry</i> , 2019, 11, 899-905.	13.6	114
42	Onset of Tethered Chain Overcrowding. <i>Physical Review Letters</i> , 2004, 93, 028301.	7.8	113
43	Giant gemini surfactants based on polystyrene-hydrophilic polyhedral oligomeric silsesquioxane shape amphiphiles: sequential “click”-chemistry and solution self-assembly. <i>Chemical Science</i> , 2013, 4, 1345.	7.4	111
44	Isothermal thickening and thinning processes in low molecular-weight poly(ethylene oxide) fractions crystallized from the melt. 3. Molecular weight dependence. <i>Macromolecules</i> , 1992, 25, 1453-1460.	4.8	103
45	Organosoluble, segmented rigid-rod polyimide film. 1. Structure formation. <i>Macromolecules</i> , 1991, 24, 5856-5862.	4.8	100
46	High Performance Planar Heterojunction Perovskite Solar Cells with Fullerene Derivatives as the Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1153-1159.	8.0	99
47	Synthesis of Shape Amphiphiles Based on Functional Polyhedral Oligomeric Silsesquioxane End-Capped Poly(L-Lactide) with Diverse Head Surface Chemistry. <i>Macromolecules</i> , 2011, 44, 2589-2596.	4.8	98
48	Molecular segregation and nucleation of poly(ethylene oxide) crystallized from the melt. I. Calorimetric study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 577-594.	2.1	96
49	THE ROLE OF METASTABLE STATES IN POLYMER PHASE TRANSITIONS: Concepts, Principles, and Experimental Observations. <i>Annual Review of Materials Research</i> , 1998, 28, 533-562.	5.5	96
50	Double Twist in Helical Polymer “Soft” Crystals. <i>Physical Review Letters</i> , 1999, 83, 4558-4561.	7.8	95
51	Monotropic liquid crystal behavior in two poly(ester imides) with even and odd flexible spacers. <i>Macromolecules</i> , 1992, 25, 5060-5068.	4.8	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. <i>Macromolecules</i> , 1991, 24, 3937-3944.	4.8	93
53	Precise Molecular Fission and Fusion: Quantitative Self-Assembly and Chemistry of a Metallo-Cuboctahedron. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9224-9229.	13.8	93
54	Glass transition and melting behavior of poly(oxy-2,6-dimethyl-1,4-phenylene). <i>Macromolecules</i> , 1987, 20, 1630-1637.	4.8	91

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55	Molecular Orientations in Flat-Elongated and Helical Lamellar Crystals of a Main-Chain Nonracemic Chiral Polyester. <i>Journal of the American Chemical Society</i> , 2000, 122, 72-79.	13.7	91
56	Nanotailored Crystalline Morphology in Hexagonally Perforated Layers of a Self-Assembled PS-b-PEO Diblock Copolymer. <i>Macromolecules</i> , 2002, 35, 3553-3562.	4.8	90
57	Self-Assembly of Porphyrin and Fullerene Supramolecular Complex into Highly Ordered Nanostructure by Simple Thermal Annealing. <i>Chemistry of Materials</i> , 2008, 20, 3551-3553.	6.7	90
58	Nonintegral and integral folding crystal growth in low-molecular mass poly (ethylene oxide) fractions. III. Linear crystal growth rates and crystal morphology. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 311-327.	2.1	87
59	Isothermal thickening and thinning processes in low-molecular-weight poly(ethylene oxide) fractions crystallized from the melt. 4. End-group dependence. <i>Macromolecules</i> , 1993, 26, 5105-5117.	4.8	85
60	Sequential "Click" Approach to Polyhedral Oligomeric Silsesquioxane-Based Shape Amphiphiles. <i>Macromolecules</i> , 2012, 45, 8126-8134.	4.8	85
61	Ordered structures in a series of liquid-crystalline poly(ester imides). <i>Macromolecules</i> , 1993, 26, 3687-3697.	4.8	83
62	Left or Right, It Is a Matter of One Methylene Unit. <i>Journal of the American Chemical Society</i> , 2001, 123, 2462-2463.	13.7	83
63	Synthesis, Self-assembly, and Crystal Structure of a Shape-Persistent Polyhedral-Oligosilsesquioxane-Nanoparticle-Tethered Perylene Diimide. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4802-4810.	2.6	83
64	Solution Crystallization Behavior of Crystalline Diblock Copolymers of Poly(ethylene Terephthalate) and Poly(ethylene Glycol). <i>Macromolecules</i> , 2003, 36, 1000-1008.	4.8	83
65	A Porphyrin-Fullerene Dyad with a Supramolecular "Double-Cable" Structure as a Novel Electron Acceptor for Bulk Heterojunction Polymer Solar Cells. <i>Advanced Materials</i> , 2011, 23, 2951-2956.	21.0	83
66	Self-Assembly of a Supramolecular, Three-Dimensional, Spoked, Bicycle-Like Wheel. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7728-7731.	13.8	81
67	Manipulating Supramolecular Self-Assembly via Tailoring Pendant Group Size of Linear Vinyl Polymers. <i>Journal of the American Chemical Society</i> , 2003, 125, 6854-6855.	13.7	80
68	Construction of a Highly Symmetric Nanosphere via a One-Pot Reaction of a Tristerpyridine Ligand with Ru(II). <i>Journal of the American Chemical Society</i> , 2014, 136, 8165-8168.	13.7	80
69	Manipulation of Self-Assembled Nanostructure Dimensions in Molecular Janus Particles. <i>ACS Nano</i> , 2016, 10, 6585-6596.	14.6	79
70	Synthesis of Shape Amphiphiles Based on POSS Tethered with Two Symmetric/Asymmetric Polymer Tails via Sequential "Grafting-from" and Thiol "Ene" Click Chemistry. <i>ACS Macro Letters</i> , 2012, 1, 834-839.	4.8	78
71	Modification of the Avrami treatment of crystallization to account for nucleus and interface. <i>Macromolecules</i> , 1988, 21, 3327-3328.	4.8	76
72	Toward Controlled Hierarchical Heterogeneities in Giant Molecules with Precisely Arranged Nano Building Blocks. <i>ACS Central Science</i> , 2016, 2, 48-54.	11.3	76

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73	Molecular segregation and nucleation of poly(ethylene oxide) crystallized from the melt. II. Kinetic study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 595-617.	2.1	75
74	The origin of $\hat{\Gamma}^2$ relaxations in segmented rigid-rod polyimide and copolyimide films. <i>Polymer Engineering and Science</i> , 1993, 33, 1373-1380.	3.1	74
75	Nonintegral and integral folding crystal growth in low-molecular mass poly(ethylene oxide) fractions. I. Isothermal lamellar thickening and thinning. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 287-297.	2.1	72
76	Gel/sol and liquid-crystalline transitions in solution of a rigid-rod polyimide. <i>Macromolecules</i> , 1991, 24, 1883-1889.	4.8	71
77	Crystallization, Melting and Morphology of Syndiotactic Polypropylene Fractions. 4. In Situ Lamellar Single Crystal Growth and Melting in Different Sectors. <i>Macromolecules</i> , 2000, 33, 6861-6868.	4.8	69
78	Giant surfactants based on molecular nanoparticles: Precise synthesis and solution self-assembly. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1309-1325.	2.1	69
79	Hierarchical Self-Organization of AB _n Dendron-like Molecules into a Supramolecular Lattice Sequence. <i>ACS Central Science</i> , 2017, 3, 860-867.	11.3	69
80	Synthesis and Properties of Planar Liquid-Crystalline Bisphenazines. <i>Chemistry of Materials</i> , 2004, 16, 4912-4915.	6.7	68
81	Pathway toward Large Two-Dimensional Hexagonally Patterned Colloidal Nanosheets in Solution. <i>Journal of the American Chemical Society</i> , 2015, 137, 1392-1395.	13.7	68
82	Liquid Crystal Transition and Crystallization Kinetics in Poly(ester imide)s. <i>Macromolecules</i> , 1994, 27, 5794-5802.	4.8	67
83	Hierarchical structure and polymorphism of a sphere-cubic shape amphiphile based on a polyhedral oligomeric silsesquioxane- $[60]$ fullerene conjugate. <i>Journal of Materials Chemistry</i> , 2011, 21, 14240.	6.7	67
84	Self-assembled "Supra-molecular" Structures via Hydrogen Bonding and Aromatic/Aliphatic Microphase Separation on Different Length Scales in Symmetric-Tapered Bisamides. <i>Chemistry of Materials</i> , 2004, 16, 1014-1025.	6.7	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. <i>Macromolecules</i> , 1998, 31, 5188-5200.	4.8	65
86	Crystal Orientation Change and Its Origin in One-Dimensional Nanoconfinement Constructed by Polystyrene- <i>block</i> -poly(ethylene oxide) Single Crystal Mats. <i>Macromolecules</i> , 2008, 41, 8114-8123.	4.8	65
87	Crystallization, Melting, and Morphology of Syndiotactic Polypropylene Fractions. 3. Lamellar Single Crystals and Chain Folding. <i>Macromolecules</i> , 1996, 29, 6575-6581.	4.8	64
88	Crystal Morphology and Phase Identifications in Poly(aryl ether ketone)s and Their Copolymers. 1. Polymorphism in PEKK. <i>Macromolecules</i> , 1994, 27, 2136-2140.	4.8	63
89	Dislocation-Controlled Perforated Layer Phase in a PEO- <i>b</i> -PS Diblock Copolymer. <i>Physical Review Letters</i> , 2001, 86, 6030-6033.	7.8	63
90	Mesophase behavior in thermotropic polyethers based on the semi-flexible mesogen 1-(4-hydroxyphenyl)-2-(2-methyl-4-hydroxyphenyl)ethane. <i>Macromolecules</i> , 1992, 25, 2112-2121.	4.8	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. <i>Macromolecules</i> , 1997, 30, 6498-6506.	4.8	62
92	Tuning α -thiol-ene reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. <i>Chemical Science</i> , 2014, 5, 1046-1053.	7.4	61
93	Self-Assembly-Induced Supramolecular Hexagonal Columnar Liquid Crystalline Phase Using Laterally Attached Nonmesogenic Templates. <i>Macromolecules</i> , 2000, 33, 6315-6320.	4.8	60
94	Phase Structures and Self-assembled Helical Suprastructures via Hydrogen Bonding in a Series of Achiral 4-Biphenyl Carboxylic Acid Compounds. <i>Chemistry of Materials</i> , 2005, 17, 2852-2865.	6.7	60
95	Poly(ethylene oxide) Crystallization within a One-Dimensional Defect-Free Confinement on the Nanoscale. <i>Macromolecules</i> , 2008, 41, 4794-4801.	4.8	59
96	α -Plastic Deformation Mechanism and Phase Transformation in a Shear-Induced Metastable Hexagonally Perforated Layer Phase of a Polystyrene- <i>b</i> -poly(ethylene oxide) Diblock Copolymer. <i>Macromolecules</i> , 2003, 36, 3180-3188.	4.8	58
97	Phase behaviors and supra-molecular structures of a series of symmetrically tapered bisamides. <i>Soft Matter</i> , 2006, 2, 232.	2.7	58
98	Poly(ethylene oxide) Crystal Orientation Change under 1D Nanoscale Confinement using Polystyrene- <i>b</i> -poly(ethylene oxide) Copolymers: Confined Dimension and Reduced Tethering Density Effects. <i>Macromolecules</i> , 2009, 42, 8343-8352.	4.8	57
99	Sequence-Mandated, Distinct Assembly of Giant Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15014-15019.	13.8	57
100	Double-Twisted Helical Lamellar Crystals in a Synthetic Main-Chain Chiral Polyester Similar to Biological Polymers. <i>Macromolecules</i> , 1999, 32, 524-527.	4.8	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. <i>Soft Matter</i> , 2010, 6, 100-112.	2.7	55
102	Crystalline Organic Pigment-Based Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21891-21899.	8.0	55
103	Origin of Self-Assembled Helical Supramolecular Structures in Achiral C6 Biphenyl Carboxylic Acid Compounds. <i>Chemistry of Materials</i> , 2006, 18, 680-690.	6.7	54
104	Exploring shape amphiphiles beyond giant surfactants: molecular design and click synthesis. <i>Polymer Chemistry</i> , 2013, 4, 1056-1067.	3.9	54
105	Highly Asymmetric Phase Behaviors of Polyhedral Oligomeric Silsesquioxane-Based Multiheaded Giant Surfactants. <i>ACS Nano</i> , 2018, 12, 1868-1877.	14.6	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. <i>Macromolecules</i> , 1996, 29, 294-305.	4.8	52
107	Sequential Triple α -Click Approach toward Polyhedral Oligomeric Silsesquioxane-Based Multiheaded and Multitailed Giant Surfactants. <i>ACS Macro Letters</i> , 2013, 2, 645-650.	4.8	52
108	Thermoresponsive Bacterial Cellulose Whisker/Poly(NIPAM- <i>co</i> -BMA) Nanogel Complexes: Synthesis, Characterization, and Biological Evaluation. <i>Biomacromolecules</i> , 2013, 14, 1078-1084.	5.4	52

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109	A Noncrystallization Approach toward Uniform Thylakoids-like 2D “Nano-coins” and Their Grana-like 3D Suprastructures. <i>Journal of the American Chemical Society</i> , 2017, 139, 5883-5889.	13.7	52
110	Nonintegral and integral folding crystal growth in low-molecular mass poly (ethylene oxide) fractions. II. End-group effect: 1,10-methoxy-poly (ethylene oxide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 299-310.	2.1	51
111	Topologically Directed Assemblies of Semiconducting Sphere-Rod Conjugates. <i>Journal of the American Chemical Society</i> , 2017, 139, 18616-18622.	13.7	51
112	Crystallization and morphology of semicrystalline polyimides. <i>Macromolecules</i> , 1991, 24, 1890-1898.	4.8	50
113	Effects of the phase-separated melt on crystallization behavior and morphology in short chain branched metallocene polyethylenes. <i>Journal of Macromolecular Science - Physics</i> , 1997, 36, 41-60.	1.0	48
114	Early-Stage Formation of Helical Single Crystals and Their Confined Growth in Thin Film. <i>Macromolecules</i> , 2001, 34, 3634-3641.	4.8	48
115	Frustrated Molecular Packing in Highly Ordered Smectic Phase of Side-Chain Liquid Crystalline Polymer with Rigid Polyacetylene Backbone. <i>Journal of the American Chemical Society</i> , 2005, 127, 7668-7669.	13.7	47
116	Tunable Affinity and Molecular Architecture Lead to Diverse Self-Assembled Supramolecular Structures in Thin Films. <i>ACS Nano</i> , 2016, 10, 919-929.	14.6	47
117	Molecular segregation and nucleation of poly(ethylene oxide) crystallized from the melt. III. Morphological study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1988, 26, 1947-1964.	2.1	46
118	Nucleation control in polymer crystallization: structural and morphological probes in different length- and time-scales for selection processes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 517-537.	3.4	46
119	Fluorinated polyhedral oligomeric silsesquioxane-based shape amphiphiles: molecular design, topological variation, and facile synthesis. <i>Polymer Chemistry</i> , 2012, 3, 2112.	3.9	46
120	Asymmetric Giant “Bolaform-like” Surfactants: Precise Synthesis, Phase Diagram, and Crystallization-Induced Phase Separation. <i>Macromolecules</i> , 2014, 47, 4622-4633.	4.8	46
121	Self-Assembled Structures of Giant Surfactants Exhibit a Remarkable Sensitivity on Chemical Compositions and Topologies for Tailoring Sub-10 nm Nanostructures. <i>Macromolecules</i> , 2017, 50, 303-314.	4.8	46
122	Self-Assembly of Chemically Linked Rod-Disc Mesogenic Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2007, 111, 767-777.	2.6	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. <i>Macromolecules</i> , 1996, 29, 3421-3431.	4.8	44
124	Supramolecular Structure of β -Cyclodextrin and Poly(ethylene oxide)-poly(propylene) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	4.8	44
125	Synthesis of fullerene-containing poly(ethylene oxide)-poly(styrene) as model shape amphiphiles with variable composition, diverse architecture, and high fullerene functionality. <i>Polymer Chemistry</i> , 2012, 3, 124-134.	3.9	44
126	Molecular “Curvature”-Induced Spontaneous Formation of Curved and Concentric Lamellae through Nucleation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2459-2463.	13.8	44

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127	A Supramolecular “Double-Cable” Structure with a 129×44 Helix in a Columnar Porphyrin 60×60 Dyad and its Application in Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1375-1382.	19.5	43
128	Heat capacities and entropies of liquid, high-melting-point polymers containing phenylene groups (PEEK, PC, and PET). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 1755-1765.	2.1	42
129	Synthesis and Properties of Polyimides Containing Multiple Alkyl Side Chains. <i>Macromolecules</i> , 2007, 40, 889-900.	4.8	42
130	Isothermal Thickening and Thinning Processes in Low-Molecular-Weight Poly(ethylene oxide) Fractions Crystallized from the Melt. 8. Molecular Shape Dependence. <i>Macromolecules</i> , 1999, 32, 4784-4793.	4.8	41
131	Surface-Induced Polymer Crystallization in High Volume Fraction Aligned Carbon Nanotube-Polymer Composites. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1003-1011.	2.2	41
132	Cascading One-Pot Synthesis of Single-Tailed and Asymmetric Multitailed Giant Surfactants. <i>ACS Macro Letters</i> , 2013, 2, 1026-1032.	4.8	41
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134	Self-diffusion of poly (ethylene oxide) fractions and its influence on the crystalline texture. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 515-525.	2.1	40
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