

# Liangshun Zhang

## List of Publications by Year in descending order

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62  
papers

1,599  
citations

331538

21  
h-index

315616

38  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1521  
citing authors

#	ARTICLE	IF	CITATIONS
1	RAFT Polymerization of Semifluorinated Monomers Mediated by a NIR Fluorinated Photocatalyst. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200122.	2.0	17
2	Formation of diblock copolymer nanoparticles: Theoretical aspects. <i>Giant</i> , 2022, 10, 100101.	2.5	3
3	An acid-triggered porphyrin-based block copolymer for enhanced photodynamic antibacterial efficacy. <i>Science China Chemistry</i> , 2021, 64, 459-466.	4.2	25
4	A pH/H <sub>2</sub> O <sub>2</sub> dual triggered nanoplatform for enhanced photodynamic antibacterial efficiency. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5076-5082.	2.9	13
5	Impact of Architecture of Symmetric Block Copolymers on the Stability of a Dislocation Defect. <i>Macromolecules</i> , 2021, 54, 773-782.	2.2	8
6	Epitaxial Assembly of Nanoparticles in a Diblock Copolymer Matrix: Precise Organization of Individual Nanoparticles into Regular Arrays. <i>Macromolecules</i> , 2021, 54, 2561-2573.	2.2	5
7	An Antifouling and Antimicrobial Zwitterionic Nanocomposite Hydrogel Dressing for Enhanced Wound Healing. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1621-1630.	2.6	42
8	Distinctive Dielectric Permittivity of Hierarchical Nanostructures with Ordered Nanoparticle Networks Self-Assembled from AB-g-NP/AC Block Copolymer Mixtures. <i>Nano Letters</i> , 2021, 21, 2982-2988.	4.5	4
9	Autonomous Construction of Phase Diagrams of Block Copolymers by Theory-Assisted Active Machine Learning. <i>ACS Macro Letters</i> , 2021, 10, 598-602.	2.3	19
10	Supramolecular cyclization of semiflexible cylindrical micelles assembled from rod-coil graft copolymers. <i>Nanoscale</i> , 2020, 12, 296-305.	2.8	9
11	Self-assembly of rod-coil block copolymers on a substrate into micrometer-scale ordered stripe nanopatterns. <i>Polymer Chemistry</i> , 2020, 11, 7487-7496.	1.9	5
12	Harnessing Zone Annealing to Program Directional Motion of Nanoparticles in Diblock Copolymers: Creating Periodically Well-Ordered Nanocomposites. <i>Macromolecules</i> , 2020, 53, 2111-2122.	2.2	9
13	Self-Assembly of Copolymer Micelles: Higher-Level Assembly for Constructing Hierarchical Structure. <i>Chemical Reviews</i> , 2020, 120, 4111-4140.	23.0	150
14	Self-Assembled nanostructures of diblock copolymer films under homopolymer topcoats. <i>Polymer International</i> , 2020, 69, 728-736.	1.6	5
15	Modulation of molecular orientation enabling high photovoltaic performance of block copolymer nanostructures. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2627-2636.	3.2	4
16	Synthesis of Nanowires via Temperature-Induced Supramolecular Step-Growth Polymerization. <i>Macromolecules</i> , 2019, 52, 7731-7739.	2.2	23
17	Reversible Polymerization-like Kinetics for Programmable Self-Assembly of DNA-Encoded Nanoparticles with Limited Valence. <i>Journal of the American Chemical Society</i> , 2019, 141, 16408-16415.	6.6	18
18	Ordered Surface Nanostructures Self-Assembled from Rod-Coil Block Copolymers on Microspheres. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6375-6381.	2.1	16

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19	Diverse chiral assemblies of nanoparticles directed by achiral block copolymers via nanochannel confinement. <i>Nanoscale</i> , 2019, 11, 474-484.	2.8	24
20	Distinctive phase separation dynamics of polymer blends: roles of Janus nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2651-2658.	1.3	17
21	Supramolecular step-growth polymerization kinetics of pre-assembled triblock copolymer micelles. <i>Polymer Chemistry</i> , 2019, 10, 3461-3468.	1.9	18
22	Customizing topographical templates for aperiodic nanostructures of block copolymers via inverse design. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7781-7788.	1.3	5
23	Living Supramolecular Polymerization of Rod-Coil Block Copolymers: Kinetics, Origin of Uniformity, and Its Implication. <i>Nano Letters</i> , 2019, 19, 2032-2036.	4.5	33
24	Sequence-Regulated Supracolloidal Copolymers via Copolymerization-Like Coassembly of Binary Mixtures of Patchy Nanoparticles. <i>ACS Nano</i> , 2019, 13, 1968-1976.	7.3	13
25	Well-ordered self-assembled nanostructures of block copolymer films via synergistic integration of chemoepitaxy and zone annealing. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 498-508.	1.3	11
26	Supramolecular multicompartment gels formed by ABC graft copolymers: high toughness and recovery properties. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15995-16004.	1.3	8
27	Polymerization-like kinetics of the self-assembly of colloidal nanoparticles into supracolloidal polymers. <i>Nanoscale</i> , 2018, 10, 16873-16880.	2.8	23
28	Distinct Photovoltaic Performance of Hierarchical Nanostructures Self-Assembled from Multiblock Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22552-22561.	4.0	9
29	Supramolecular Step Polymerization of Preassembled Micelles: A Study of Polymerization Kinetics. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700701.	2.0	16
30	Ordering kinetics of lamella-forming block copolymers under the guidance of various external fields studied by dynamic self-consistent field theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6707-6720.	1.3	19
31	Shear flow behaviors of rod-coil diblock copolymers in solution: A nonequilibrium dissipative particle dynamics simulation. <i>Journal of Chemical Physics</i> , 2017, 146, .	1.2	13
32	Distinct Viscoelasticity of Nanoparticle-Tethering Polymers Revealed by Nonequilibrium Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28194-28203.	1.5	22
33	Percolating Behavior of Nanoparticles in Block Copolymer Host: Hybrid Particle-Field Simulations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23705-23715.	1.5	9
34	Directed assembly of functionalized nanoparticles with amphiphilic diblock copolymers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18757-18766.	1.3	17
35	Understanding the ordering mechanisms of self-assembled nanostructures of block copolymers during zone annealing. <i>Journal of Chemical Physics</i> , 2016, 144, 114901.	1.2	25
36	Robust control over morphologies and grain interfaces of three-dimensional well-ordered superstructures programmed by hybrid topographical-chemical templates. <i>Molecular Systems Design and Engineering</i> , 2016, 1, 169-174.	1.7	0

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37	Exploring Microstructures and Interphase Properties of Surface- Grafted Diblock Copolymers in a Homopolymer Melt by Self-Consistent Field Theory Simulations. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 348-364.	0.4	3
38	Controllable Hierarchical Microstructures Self-Assembled from Multiblock Copolymers Confined in Thin Films. <i>Langmuir</i> , 2015, 31, 2533-2544.	1.6	19
39	Designing three-dimensional ordered structures from directed self-assembly of block copolymer films in topographical templates. <i>Polymer</i> , 2015, 72, 10-20.	1.8	12
40	Supramolecular assembly of diblock copolymer blends with hydrogen-bonding interactions modeled by Yukawa potentials. <i>Polymer</i> , 2015, 78, 69-80.	1.8	10
41	Insights into ordered microstructures and ordering mechanisms of ABC star terpolymers by integrating dynamic self-consistent field theory and variable cell shape methods. <i>Soft Matter</i> , 2014, 10, 5916-5927.	1.2	10
42	Defect structures and ordering behaviours of diblock copolymers self-assembling on spherical substrates. <i>Soft Matter</i> , 2014, 10, 6713-6721.	1.2	22
43	Harnessing Anisotropic Nanoposts to Enhance Long-Range Orientation Order of Directed Self-Assembly Nanostructures via Large Cell Simulations. <i>ACS Macro Letters</i> , 2014, 3, 712-716.	2.3	37
44	Phase behavior of graft copolymers in concentrated solution. <i>Soft Matter</i> , 2011, 7, 137-146.	1.2	6
45	Hybrid Lattice Boltzmann/Dynamic Self-Consistent Field Simulations of Microphase Separation and Vesicle Formation in Block Copolymer Systems. <i>Macromolecules</i> , 2011, 44, 9434-9447.	2.2	42
46	Ordered Nanostructures Self-Assembled from Block Copolymer Tethered Nanoparticles. <i>ACS Nano</i> , 2010, 4, 4979-4988.	7.3	66
47	Hierarchically Ordered Microstructures Self-Assembled from A(BC) <sub>n</sub> Multiblock Copolymers. <i>Macromolecules</i> , 2010, 43, 1602-1609.	2.2	58
48	Microphase separation of rod-coil diblock copolymer in solution. <i>Journal of Chemical Physics</i> , 2009, 130, 094907.	1.2	7
49	Drug releasing behavior of hybrid micelles containing polypeptide triblock copolymer. <i>Biomaterials</i> , 2009, 30, 108-117.	5.7	164
50	Self-Assembly Behavior of AB/AC Diblock Copolymer Mixtures in Dilute Solution. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1906-1913.	1.2	39
51	Hierarchically Ordered Microstructures Self-Assembled from Comb-Coil Block Copolymers. <i>Langmuir</i> , 2009, 25, 4735-4742.	1.6	29
52	Hierarchically Ordered Nanocomposites Self-Assembled from Linear-Alternating Block Copolymer/Nanoparticle Mixture. <i>Macromolecules</i> , 2009, 42, 1410-1414.	2.2	35
53	Elastic properties of graft copolymers in the lamellar phase studied by self-consistent field theory. <i>Soft Matter</i> , 2009, 5, 173-181.	1.2	18
54	Microphase separation in multigraft copolymer melts studied by random-phase approximation and self-consistent field theory. <i>Journal of Chemical Physics</i> , 2008, 129, 114905.	1.2	27

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55	Effect of Molecular Architecture on Phase Behavior of Graft Copolymers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9720-9728.	1.2	35
56	Self-Assembly Behavior of pH- and Thermosensitive Amphiphilic Triblock Copolymers in Solution: Experimental Studies and Self-Consistent Field Theory Simulations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12666-12673.	1.2	57
57	Effect of Chain Conformational Change on Micelle Structures: Experimental Studies and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 776-783.	1.2	67
58	Aggregate Morphologies of Amphiphilic Graft Copolymers in Dilute Solution Studied by Self-Consistent Field Theory. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9209-9217.	1.2	49
59	Self-Assembly Behavior of Amphiphilic Block Copolymer/Nanoparticle Mixture in Dilute Solution Studied by Self-Consistent-Field Theory/Density Functional Theory. <i>Macromolecules</i> , 2007, 40, 5582-5592.	2.2	88
60	Morphologies and Bridging Properties of Graft Copolymers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 351-357.	1.2	29
61	Effect of electrical field on polypeptide phase behavior involving a conformationally coupled anisotropic $\leftrightarrow$ isotropic transition. <i>Polymer</i> , 2007, 48, 2056-2063.	1.8	8
62	Phase equilibria of polymer dispersed liquid crystal systems in the presence of an external electrical field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1898-1906.	2.4	4