

You-Liang Zhu

List of Publications by Year in descending order

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69
papers

1,912
citations

346980

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312153

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docs citations

70
times ranked

2281
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of Macrophase Separation and Transformation in Immiscible Polymer Blends. <i>CCS Chemistry</i> , 2023, 5, 718-728.	4.6	4
2	The advantages of nanoparticle surfactants over Janus nanoparticles on structuring liquids. <i>Nanoscale</i> , 2022, 14, 3554-3560.	2.8	4
3	A chiral smectic phase induced by an alternating external field. <i>Soft Matter</i> , 2022, 18, 2569-2576.	1.2	2
4	Colloidal cubic diamond photonic crystals through cooperative self-assembly. <i>Soft Matter</i> , 2022, 18, 2654-2662.	1.2	2
5	Poly(Anthraquinonyl Sulfide)/CNT Composites as High-Performance Cathodes for Nonaqueous Rechargeable Calcium-Ion Batteries. <i>Advanced Science</i> , 2022, 9, e2200397.	5.6	13
6	Coarse-grained Dynamics Simulation in Polymer Systems: from Structures to Material Properties. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 653-670.	1.3	5
7	Mechanically Robust Skin-like Poly(urethane-urea) Elastomers Cross-Linked with Hydrogen-Bond Arrays and Their Application as High-Performance Ultrastretchable Conductors. <i>Macromolecules</i> , 2022, 55, 5816-5825.	2.2	35
8	Interactions on Proteins Arising from the Self-Assembly of a Polyelectrolyte Brush. <i>Langmuir</i> , 2022, 38, 7759-7765.	1.6	0
9	Healable and Recyclable Elastomers with Record-High Mechanical Robustness, Unprecedented Crack Tolerance, and Superhigh Elastic Restorability. <i>Advanced Materials</i> , 2021, 33, e2101498.	11.1	227
10	Softness-Enhanced Self-Assembly of Pyrochlore- and Perovskite-like Colloidal Photonic Crystals from Triblock Janus Particles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7159-7165.	2.1	9
11	Self-Assembly Behaviors of Giant Amphiphiles Containing Cubic Cage-like "Monomers". <i>Macromolecules</i> , 2021, 54, 8601-8611.	2.2	4
12	Intercluster Exchange-Stabilized Novel Complex Colloidal β Phase. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8872-8881.	2.1	2
13	Probing Intermittent Motion of Polymer Chains in Weakly Attractive Nanocomposites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 620-628.	2.0	3
14	Building Block Design for Minimizing Defects in the Construction of Two-Dimensional Covalent Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 179-183.	2.1	13
15	A controlling parameter of topological defects in two-dimensional covalent organic frameworks. <i>Nanoscale</i> , 2020, 12, 22107-22115.	2.8	8
16	Brownian Diffusion of Individual Janus Nanoparticles at Water/Oil Interfaces. <i>ACS Nano</i> , 2020, 14, 10095-10103.	7.3	22
17	Mechanisms of Defect Correction by Reversible Chemistries in Covalent Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9952-9956.	2.1	17
18	Inverse Design of Molecular Weight Distribution in Controlled Polymerization via a One-Pot Reaction Strategy. <i>Macromolecules</i> , 2020, 53, 6409-6419.	2.2	22

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19	Cellulose-Based Superhydrophobic Surface Decorated with Functional Groups Showing Distinct Wetting Abilities to Manipulate Water Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40968-40978.	4.0	49
20	The <sc>ENUF</sc> method—Ewald summation based on <sc>nonuniform</sc> fast Fourier transform: Implementation, parallelization, and application. <i>Journal of Computational Chemistry</i> , 2020, 41, 2316-2335.	1.5	3
21	Self-Assembly of Single-Polymer-Tethered Nanoparticle Amphiphiles upon Varying Tail Length. <i>Nanomaterials</i> , 2020, 10, 2108.	1.9	1
22	Remalleable, Healable, and Highly Sustainable Supramolecular Polymeric Materials Combining Superhigh Strength and Ultrahigh Toughness. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30805-30814.	4.0	111
23	The coarse-grained models of poly(ethylene oxide) and poly(propylene oxide) homopolymers and poloxamers in big multipole water (BMW) and MARTINI frameworks. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15976-15985.	1.3	10
24	Anion Substitution in Porous Aromatic Frameworks: Boosting Molecular Permeability and Selectivity for Membrane Acetylene Separation. <i>Advanced Materials</i> , 2020, 32, e1907449.	11.1	34
25	Kinetics-controlled design principles for two-dimensional open lattices using atom-mimicking patchy particles. <i>Nanoscale</i> , 2020, 12, 4544-4551.	2.8	8
26	Unveiling the Role of Hydroxyl Architecture on Polysulfide Trapping for High-Performance Lithium—Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4023-4032.	2.5	11
27	Influence of lamellar thickness on the transformation of isotactic polybutylene-1/carbon nanotube nanocomposites. <i>CrystEngComm</i> , 2020, 22, 2990-2997.	1.3	5
28	Heterogeneous dynamics of unentangled chains in polymer nanocomposites. <i>Journal of Chemical Physics</i> , 2019, 150, 184903.	1.2	6
29	Synergic Catalysts of Polyoxometalate@Cationic Porous Aromatic Frameworks: Reciprocal Modulation of Both Capture and Conversion Materials. <i>Advanced Materials</i> , 2019, 31, e1902444.	11.1	65
30	Enthalpy-driven self-assembly of amphiphilic Janus dendrimers into onion-like vesicles: a Janus particle model. <i>Nanoscale</i> , 2019, 11, 17350-17356.	2.8	18
31	Understanding the desulphurization process in an ionic porous aromatic framework. <i>Chemical Science</i> , 2019, 10, 606-613.	3.7	47
32	Effect of the Self-Assembled Structures of Hydrated Polyzwitterionic and Polyanionic Brushes on Their Self-Cleaning Capabilities. <i>Langmuir</i> , 2019, 35, 6669-6675.	1.6	6
33	Autonomous helical propagation of active toroids with mechanical action. <i>Nature Communications</i> , 2019, 10, 1080.	5.8	35
34	Coupling and decoupling between translational and rotational dynamics in supercooled monodisperse soft Janus particles. <i>Soft Matter</i> , 2019, 15, 3343-3352.	1.2	9
35	Associating behavior of one polyimide with high molecular weight in solution through a relatively weak interaction. <i>Polymer</i> , 2018, 141, 166-174.	1.8	9
36	Electrostatic interactions in soft particle systems: mesoscale simulations of ionic liquids. <i>Soft Matter</i> , 2018, 14, 4252-4267.	1.2	21

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37	Employing multi-GPU power for molecular dynamics simulation: an extension of GALAMOST. <i>Molecular Physics</i> , 2018, 116, 1065-1077.	0.8	38
38	Kinetic step-growth polymerization: A dissipative particle dynamics simulation study. <i>Journal of Chemical Physics</i> , 2018, 148, 024901.	1.2	11
39	Improving Performance of All-Polymer Solar Cells Through Backbone Engineering of Both Donors and Acceptors. <i>Solar Rrl</i> , 2018, 2, 1800247.	3.1	17
40	A Crystalline Polyimide Porous Organic Framework for Selective Adsorption of Acetylene over Ethylene. <i>Journal of the American Chemical Society</i> , 2018, 140, 15724-15730.	6.6	207
41	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , 2018, 30, e1804169.	11.1	66
42	Hybrid Particle-Field Molecular Dynamics Simulations of Charged Amphiphiles in an Aqueous Environment. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4928-4937.	2.3	23
43	General patchy ellipsoidal particle model for the aggregation behaviors of shape- and/or surface-anisotropic building blocks. <i>Soft Matter</i> , 2018, 14, 7625-7633.	1.2	32
44	Molecular dynamics simulation of antipolyelectrolyte effect and solubility of polyzwitterions. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 261-267.	1.3	7
45	Enhancement of surface nonwettability by grafting loops. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4710-4718.	1.3	6
46	Chiral Assemblies from an Achiral Pyridinium-Tailored Anthracene. <i>Chemistry - A European Journal</i> , 2017, 23, 1422-1426.	1.7	12
47	GPU-Accelerated Molecular Dynamics Simulation to Study Liquid Crystal Phase Transition Using Coarse-Grained Gay-Berne Anisotropic Potential. <i>PLoS ONE</i> , 2016, 11, e0151704.	1.1	9
48	The mechanism of the emergence of distinct overstretched DNA states. <i>Journal of Chemical Physics</i> , 2016, 144, 024901.	1.2	6
49	Probing heterogeneous dynamics from spatial density correlation in glass-forming liquids. <i>Physical Review E</i> , 2016, 94, 062601.	0.8	4
50	A kinetic chain growth algorithm in coarse-grained simulations. <i>Journal of Computational Chemistry</i> , 2016, 37, 2634-2646.	1.5	51
51	Supracolloidal fullerene-like cages: design principles and formation mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32534-32540.	1.3	4
52	Understanding the wettability of a hairy surface: effect of hair rigidity and topology. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18767-18775.	1.3	8
53	Three-dimensional inverse design of nanopatterns with block copolymers and homopolymers. <i>Nanoscale</i> , 2016, 8, 5235-5244.	2.8	9
54	Hybrid particle-field molecular dynamics simulation for polyelectrolyte systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9799-9808.	1.3	34

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55	A versatile model for soft patchy particles with various patch arrangements. <i>Soft Matter</i> , 2016, 12, 741-749.	1.2	37
56	Decoupling of relaxation and diffusion in random pinning glass-forming liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 124507.	1.2	22
57	Development of phenylboronic acid-functionalized nanoparticles for emodin delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3840-3847.	2.9	25
58	Tuning surface wettability by designing hairy structures. <i>Physical Review E</i> , 2015, 91, 020401.	0.8	12
59	Structure and Dynamics Properties at Interphase Region in the Composite of Polystyrene and Cross-Linked Polystyrene Soft Nanoparticle. <i>Macromolecules</i> , 2015, 48, 2751-2760.	2.2	59
60	Self-assembly of two-patch particles in solution: a Brownian dynamics simulation study. <i>Molecular Simulation</i> , 2014, 40, 449-457.	0.9	8
61	A simulation model for soft triblock Janus particles and their ordered packing. <i>RSC Advances</i> , 2013, 3, 813-822.	1.7	33
62	GALAMOST: GPU-accelerated large-scale molecular simulation toolkit. <i>Journal of Computational Chemistry</i> , 2013, 34, 2197-2211.	1.5	201
63	Polymer-grafted nanoparticles prepared by surface-initiated polymerization: the characterization of polymer chain conformation, grafting density and polydispersity correlated to the grafting surface curvature. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15356.	1.3	20
64	Synthesize Multiblock Copolymers via Complex Formations between β -Cyclodextrin and Adamantane Groups Terminated at Diblock Copolymer Ends: A Brownian Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16283-16291.	1.2	5
65	Note: Different micellization behavior of miktoarm star-like and diblock copolymers. <i>Journal of Chemical Physics</i> , 2012, 137, 246102.	1.2	4
66	A highly coarse-grained model to simulate entangled polymer melts. <i>Journal of Chemical Physics</i> , 2012, 136, 144903.	1.2	16
67	Influence of Grafting Surface Curvature on Chain Polydispersity and Molecular Weight in Concave Surface-Initiated Polymerization. <i>ACS Macro Letters</i> , 2012, 1, 1249-1253.	2.3	38
68	Brownian dynamics simulation study on the self-assembly of incompatible star-like block copolymers in dilute solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4964.	1.3	25
69	Phase diagram of spherical particles interacted with harmonic repulsions. <i>Journal of Chemical Physics</i> , 2011, 134, 044903.	1.2	22