

# Wei Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,547  
citations

201674

27  
h-index

189892

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Linear Heterojunction Composed of Graphite-Like Semiconducting Nanotubular Segments. <i>Science</i> , 2011, 334, 340-343.	12.6	397
2	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. <i>Science</i> , 2015, 348, 424-428.	12.6	338
3	Geometry induced sequence of nanoscale Frank-Kasper and quasicrystal mesophases in giant surfactants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14195-14200.	7.1	201
4	Polyhedral oligomeric silsesquioxane meets "click" chemistry: Rational design and facile preparation of functional hybrid materials. <i>Polymer</i> , 2017, 125, 303-329.	3.8	123
5	Identification of a Frank-Kasper Z phase from shape amphiphile self-assembly. <i>Nature Chemistry</i> , 2019, 11, 899-905.	13.6	114
6	Molecular Weight Effect on the Efficiency of Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12163-12167.	8.0	111
7	Manipulation of Self-Assembled Nanostructure Dimensions in Molecular Janus Particles. <i>ACS Nano</i> , 2016, 10, 6585-6596.	14.6	79
8	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
9	Hierarchical Self-Organization of AB <sub>n</sub> Dendron-like Molecules into a Supramolecular Lattice Sequence. <i>ACS Central Science</i> , 2017, 3, 860-867.	11.3	69
10	Tuning "thiol-ene" reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. <i>Chemical Science</i> , 2014, 5, 1046-1053.	7.4	61
11	Solution-Processed Ultrasensitive Polymer Photodetectors with High External Quantum Efficiency and Detectivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3701-3705.	8.0	57
12	Sequence-Mandated, Distinct Assembly of Giant Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15014-15019.	13.8	57
13	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
14	Topologically Directed Assemblies of Semiconducting Sphere-Rod Conjugates. <i>Journal of the American Chemical Society</i> , 2017, 139, 18616-18622.	13.7	51
15	Asymmetric Giant "Bolaform-like" Surfactants: Precise Synthesis, Phase Diagram, and Crystallization-Induced Phase Separation. <i>Macromolecules</i> , 2014, 47, 4622-4633.	4.8	46
16	Solution-processed near-infrared polymer photodetectors with an inverted device structure. <i>Organic Electronics</i> , 2012, 13, 2929-2934.	2.6	45
17	Hot Glue Gun Releasing Biocompatible Tissue Adhesive. <i>Advanced Functional Materials</i> , 2020, 30, 1900998.	14.9	45
18	Light-triggered release of conventional local anesthetics from a macromolecular prodrug for on-demand local anesthesia. <i>Nature Communications</i> , 2020, 11, 2323.	12.8	40

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19	Jacketed Polymers with Dendritic Carbazole Side Groups and Their Applications in Blue Light-Emitting Diodes. <i>Macromolecules</i> , 2010, 43, 8468-8478.	4.8	35
20	Rational controlled morphological transitions in the self-assembled multi-headed giant surfactants in solution. <i>Chemical Communications</i> , 2016, 52, 8687-8690.	4.1	34
21	Rationally Controlling the Self-Assembly Behavior of Triarmed POSS-Organic Hybrid Macromolecules: From Giant Surfactants to Macroions. <i>Macromolecules</i> , 2017, 50, 5042-5050.	4.8	34
22	Molecular Structural Basis for Stereocomplex Formation of Polylactide Enantiomers in Dilute Solution. <i>ACS Macro Letters</i> , 2015, 4, 1264-1267.	4.8	32
23	Drug Delivery across Barriers to the Middle and Inner Ear. <i>Advanced Functional Materials</i> , 2021, 31, 2008701.	14.9	32
24	Multilevel Manipulation of Supramolecular Structures of Giant Molecules via Macromolecular Composition and Sequence. <i>ACS Macro Letters</i> , 2018, 7, 635-640.	4.8	31
25	Magnifying the Structural Components of Biomembranes: A Prototype for the Study of the Self-Assembly of Giant Lipids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5226-5234.	13.8	30
26	Delivery of local anaesthetics by a self-assembled supramolecular system mimicking their interactions with a sodium channel. <i>Nature Biomedical Engineering</i> , 2021, 5, 1099-1109.	22.5	30
27	Cooperative Soft-Cluster Glass in Giant Molecular Clusters. <i>Macromolecules</i> , 2019, 52, 4341-4348.	4.8	29
28	Ordered Mesoporous Silica Pyrolyzed from Single-Source Self-Assembled Organic-Inorganic Giant Surfactants. <i>Journal of the American Chemical Society</i> , 2021, 143, 12935-12942.	13.7	28
29	Dendron-Jacketed Electrophosphorescent Copolymers: Improved Efficiency and Tunable Emission Color by Partial Energy Transfer. <i>Macromolecules</i> , 2011, 44, 9556-9564.	4.8	21
30	Functionalized Multiarmed Polycaprolactones as Biocompatible Tissue Adhesives. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 17314-17320.	8.0	19
31	Sequence isomeric giant surfactants with distinct self-assembly behaviors in solution. <i>Chemical Communications</i> , 2019, 55, 636-639.	4.1	18
32	Fine-tuned order-order phase transitions in giant surfactants via interfacial engineering. <i>Giant</i> , 2020, 1, 100002.	5.1	17
33	Modulation of the Complex Spherical Packings through Rationally Doping a Discrete Homopolymer into a Discrete Block Copolymer: A Quantitative Study. <i>Macromolecules</i> , 2022, 55, 4331-4340.	4.8	16
34	Modularly Constructed Polyhedral Oligomeric Silsesquioxane-Based Giant Molecules for Unconventional Nanostructure Fabrication. <i>ACS Applied Nano Materials</i> , 2020, 3, 2952-2958.	5.0	15
35	Keeping Nanomedicine on Target. <i>Nano Letters</i> , 2021, 21, 3-5.	9.1	13
36	Towards achieving a large-area and defect-free nano-line pattern via controlled self-assembly by sequential annealing. <i>Giant</i> , 2021, 8, 100078.	5.1	13

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37	Unimolecular Nanoparticles toward More Precise Regulations of Self-Assembled Superlattices in Soft Matter. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
38	Synthesis and characterization of electrophosphorescent jacketed conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3895-3903.	2.3	12
39	Geometry-Directed Self-Assembly of Polymeric Molecular Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2024-2029.	13.8	12
40	Rational Route Toward the Frank-Kasper Z Phase: Effect of Precise Geometrical Tuning on the Supramolecular Assembly of Giant Shape Amphiphiles. <i>Macromolecules</i> , 2021, 54, 7777-7785.	4.8	12
41	Engineering self-assembly of giant molecules in the condensed state based on molecular nanoparticles. <i>Soft Matter</i> , 2019, 15, 7108-7116.	2.7	11
42	Morphological Variation of an LB Film of Giant Amphiphiles Composed of Poly(ethylene oxide) and Hydrophobically Modified POSS. <i>Langmuir</i> , 2021, 37, 4294-4301.	3.5	11
43	Reaction: Precision Macromolecules for Self-Assembly. <i>CheM</i> , 2019, 5, 492-493.	11.7	9
44	Hierarchical self-assembly of zwitterionic dendrimer-anionic surfactant complexes into multiple stimuli-responsive dynamic nanotubes. <i>Nanoscale</i> , 2018, 10, 1411-1419.	5.6	9
45	Jacketed homopolymer with bipolar dendritic side groups and its applications in electroluminescent devices. <i>Journal of Polymer Science Part A</i> , 2012, 50, 581-589.	2.3	8
46	Hierarchically ordered structures of disk-cube triads containing hexa-peri-hexabenzocoronene and polyhedral oligomeric silsesquioxane. <i>Soft Matter</i> , 2018, 14, 6774-6782.	2.7	8
47	Analysis of monodisperse, sequence-defined, and POSS-functionalized polyester copolymers by MALDI tandem mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 164-174.	1.0	8
48	Magnifying the Structural Components of Biomembranes: A Prototype for the Study of the Self-Assembly of Giant Lipids. <i>Angewandte Chemie</i> , 2020, 132, 5264-5272.	2.0	6
49	Hierarchical Structure with an Unusual Honeycomb Fullerene Scaffold by a Fullerene-Triphenylene Shape Amphiphile. <i>Macromolecules</i> , 2020, 53, 6056-6062.	4.8	5
50	Phase Behaviors of Giant Surfactants with Different Numbers of Fluorinated Polyhedral Oligomeric Silsesquioxane Heads and One Poly(ethylene oxide) Tail at the Air-Water Interface. <i>Langmuir</i> , 2023, 39, 11084-11092.	3.5	5
51	Permeation of polyethylene glycols across the tympanic membrane. <i>Giant</i> , 2021, 6, 100057.	5.1	4
52	Discrete Block Copolymers for Self-Assembly. <i>ACS Central Science</i> , 2020, 6, 1278-1280.	11.3	2
53	Unimolecular Nanoparticles toward more Precise Regulations of Self-Assembled Superlattices in Soft Matter. <i>Angewandte Chemie</i> , 0, .	2.0	2
54	Geometry-Directed Self-Assembly of Polymeric Molecular Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 2052-2057.	2.0	1