Yiwen Li

List of Publications by Citations

120 papers	5,297 citations	44 h-index	69 g-index
124 ext. papers	7,095 ext. citations	10.1 avg, IF	6.29 L-index

#	Paper	IF	Citations
120	Self-assembly. Selective assemblies of giant tetrahedra via precisely controlled positional interactions. *Science*, **2015**, 348, 424-8	33.3	266
119	Molecular Nanoparticles Are Unique Elements for Macromolecular Science: From "Nanoatoms" to Giant Molecules. *Macromolecules*, **2014**, 47, 1221-1239	5.5	258
118	Bio-Inspired Structural Colors Produced via Self-Assembly of Synthetic Melanin Nanoparticles. *ACS Nano*, **2015**, 9, 5454-60	16.7	200
117	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, 10078-83	11.5	180
116	Enzyme-Responsive Nanoparticles for Targeted Accumulation and Prolonged Retention in Heart Tissue after Myocardial Infarction. *Advanced Materials*, **2015**, 27, 5547-52	24	155
115	Breaking symmetry toward nonspherical Janus particles based on polyhedral oligomeric silsesquioxanes: molecular design, "click" synthesis, and hierarchical structure. *Journal of the American Chemical Society*, **2011**, 133, 10712-5	16.4	140
114	Bioinspired bright noniridescent photonic melanin supraballs. *Science Advances*, **2017**, 3, e1701151	14.3	128
113	"Click" chemistry in polymeric scaffolds: Bioactive materials for tissue engineering. *Journal of Controlled Release*, **2018**, 273, 160-179	11.7	127
112	Metal-Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics. *Small*, **2020**, 16, e1907042	11	114
111	Regulating the absorption spectrum of polydopamine. *Science Advances*, **2020**, 6,	14.3	107
110	Autophagy inhibition enabled efficient photothermal therapy at a mild temperature. *Biomaterials*, **2017**, 141, 116-124	15.6	104
109	Giant gemini surfactants based on polystyrene–hydrophilic polyhedral oligomeric silsesquioxane shape amphiphiles: sequential "click" chemistry and solution self-assembly. *Chemical Science*, **2013**, 4, 1345	9.4	103
108	Recent developments in polydopamine fluorescent nanomaterials. *Materials Horizons*, **2020**, 7, 746-761	14.4	102
107	Polyhedral oligomeric silsesquioxane meets "click" chemistry: Rational design and facile preparation of functional hybrid materials. *Polymer*, **2017**, 125, 303-329	3.9	91
106	Mimicking Melanosomes: Polydopamine Nanoparticles as Artificial Microparasols. *ACS Central Science*, **2017**, 3, 564-569	16.8	89
105	Structure and Function of Iron-Loaded Synthetic Melanin. *ACS Nano*, **2016**, 10, 10186-10194	16.7	89
104	Skin Pigmentation-Inspired Polydopamine Sunscreens. *Advanced Functional Materials*, **2018**, 28, 1802127	15.6	84

103	Stimuli-Responsive Structurally Colored Films from Bioinspired Synthetic Melanin Nanoparticles. *Chemistry of Materials*, **2016**, 28, 5516-5521	9.6	83
102	Foe to Friend: Supramolecular Nanomedicines Consisting of Natural Polyphenols and Bortezomib. *Nano Letters*, **2018**, 18, 7045-7051	11.5	80
101	Multifunctional melanin-like nanoparticles for bone-targeted chemo-photothermal therapy of malignant bone tumors and osteolysis. *Biomaterials*, **2018**, 183, 10-19	15.6	77
100	Stimuli-responsive polydopamine-based smart materials. *Chemical Society Reviews*, **2021**, 50, 8319-8343	58.5	77
99	Polyphenol scaffolds in tissue engineering. *Materials Horizons*, **2021**, 8, 145-167	14.4	75
98	Polydopamine free radical scavengers. *Biomaterials Science*, **2020**, 8, 4940-4950	7.4	71
97	Toward Controlled Hierarchical Heterogeneities in Giant Molecules with Precisely Arranged Nano Building Blocks. *ACS Central Science*, **2016**, 2, 48-54	16.8	66
96	Polydopamine antibacterial materials. *Materials Horizons*, **2021**, 8, 1618-1633	14.4	63
95	Hierarchical Self-Organization of AB Dendron-like Molecules into a Supramolecular Lattice Sequence. *ACS Central Science*, **2017**, 3, 860-867	16.8	62
94	A Mussel-Inspired Polydopamine-Filled Cellulose Aerogel for Solar-Enabled Water Remediation. *ACS Applied Materials & Interfaces*, **2021**, 13, 7617-7624	9.5	60
93	Polycatechol Nanoparticle MRI Contrast Agents. *Small*, **2016**, 12, 668-77	11	59
92	Reductive dearomative arylcarboxylation of indoles with CO via visible-light photoredox catalysis. *Nature Communications*, **2020**, 11, 3263	17.4	58
91	Tailoring Synthetic Melanin Nanoparticles for Enhanced Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 42671-42679	9.5	58
90	Pathway toward large two-dimensional hexagonally patterned colloidal nanosheets in solution. *Journal of the American Chemical Society*, **2015**, 137, 1392-5	16.4	58
89	Giant surfactants based on molecular nanoparticles: Precise synthesis and solution self-assembly. *Journal of Polymer Science, Part B: Polymer Physics*, **2014**, 52, 1309-1325	2.6	58
88	Structural and Functional Tailoring of Melanin-Like Polydopamine Radical Scavengers. *CCS Chemistry*, **2020**, 2, 128-138	7.2	56
87	Smart Hydrogels with Antibacterial Properties Built from All Natural Building Blocks. *Chemistry of Materials*, **2019**, 31, 7678-7685	9.6	55
86	Tuning thiol-ene reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. *Chemical Science*, **2014**, 5, 1046-1053	9.4	54

85	Green Tea Makes Polyphenol Nanoparticles with Radical-Scavenging Activities. *Macromolecular Rapid Communications*, **2017**, 38, 1700446	4.8	54
84	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. *Accounts of Chemical Research*, **2018**, 51, 3-11	24.3	53
83	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. *Chemistry of Materials*, **2017**, 29, 8195-8201	9.6	51
82	Sequential Triple Click Approach toward Polyhedral Oligomeric Silsesquioxane-Based Multiheaded and Multitailed Giant Surfactants. *ACS Macro Letters*, **2013**, 2, 645-650	6.6	50
81	Natural polyphenols in drug delivery systems: Current status and future challenges. *Giant*, **2020**, 3, 100022	5.6	50
80	Size control synthesis of melanin-like polydopamine nanoparticles by tuning radicals. *Polymer Chemistry*, **2019**, 10, 4194-4200	4.9	49
79	Boosting solar steam generation by photothermal enhanced polydopamine/wood composites. *Polymer*, **2021**, 217, 123464	3.9	46
78	Sequence-Mandated, Distinct Assembly of Giant Molecules. *Angewandte Chemie - International Edition*, **2017**, 56, 15014-15019	16.4	44
77	Clickable and imageable multiblock polymer micelles with magnetically guided and PEG-switched targeting and release property for precise tumor theranosis. *Biomaterials*, **2017**, 145, 138-153	15.6	44
76	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	4.9	42
75	Natural Polyphenol Inspired Polycatechols for Efficient siRNA Delivery. *CCS Chemistry*, **2020**, 2, 146-157	7.2	42
74	Emergence of melanin-inspired supercapacitors. *Nano Today*, **2021**, 37, 101075	17.9	41
73	Cascading One-Pot Synthesis of Single-Tailed and Asymmetric Multitailed Giant Surfactants.. *ACS Macro Letters*, **2013**, 2, 1026-1032	6.6	39
72	High Relaxivity Gadolinium-Polydopamine Nanoparticles. *Small*, **2017**, 13, 1701830	11	38
71	Flexible and Robust Polyaniline Composites for Highly Efficient and Durable Solar Desalination. *ACS Applied Energy Materials*, **2020**, 3, 2634-2642	6.1	37
70	Ultrasmall Nanoparticle ROS Scavengers Based on Polyhedral Oligomeric Silsesquioxanes. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 1149-1156	3.5	37
69	Bi-phase fire-resistant polyethylenimine/graphene oxide/melanin coatings using layer by layer assembly technique: Smoke suppression and thermal stability of flexible polyurethane foams. *Polymer*, **2019**, 170, 65-75	3.9	36
68	Integrated POSS-dendrimer nanohybrid materials: current status and future perspective. *Nanoscale* , **2020**, 12, 11395-11415	7.7	35

67	Macromolecular structure evolution toward giant molecules of complex structure: tandem synthesis of asymmetric giant gemini surfactants. *Polymer Chemistry*, **2014**, 5, 3697	4.9	34
66	Synthetic Melanin E-Ink. *ACS Applied Materials & Interfaces*, **2017**, 9, 16553-16560	9.5	33
65	Synthetic Biopigment Supercapacitors. *ACS Applied Materials & Interfaces*, **2019**, 11, 30360-30367	9.5	33
64	ROS Scavenging Biopolymers for Anti-Inflammatory Diseases: Classification and Formulation. *Advanced Materials Interfaces*, **2020**, 7, 2000632	4.6	32
63	Rational controlled morphological transitions in the self-assembled multi-headed giant surfactants in solution. *Chemical Communications*, **2016**, 52, 8687-90	5.8	32
62	Clicking fluorinated polyhedral oligomeric silsesquioxane onto polymers: a modular approach toward shape amphiphiles with fluorous molecular clusters. *Polymer Chemistry*, **2014**, 5, 3588	4.9	32
61	Janus POSS Based on Mixed [2:6] Octakis-Adduct Regioisomers. *Chemistry - A European Journal*, **2016**, 22, 6397-403	4.8	31
60	Metal ion-promoted fabrication of melanin-like poly(L-DOPA) nanoparticles for photothermal actuation. *Science China Chemistry*, **2020**, 63, 1295-1305	7.9	30
59	Thiol-Michael click chemistry: another efficient tool for head functionalization of giant surfactants. *Polymer Chemistry*, **2014**, 5, 6151-6162	4.9	29
58	Photothermal-enhanced synthetic melanin inks for near-infrared imaging. *Polymer*, **2020**, 186, 122042	3.9	29
57	Flexible Polydopamine Bioelectronics. *Advanced Functional Materials*, **2021**, 31, 2103391	15.6	29
56	Synthetic Melanin Hybrid Patchy Nanoparticle Photocatalysts. *Journal of Physical Chemistry C*, **2019**, 123, 5345-5352	3.8	28
55	Antioxidant shape amphiphiles for accelerated wound healing. *Journal of Materials Chemistry B*, **2020**, 8, 7018-7023	7.3	28
54	Bifunctional and Bioreducible Dendrimer Bearing a Fluoroalkyl Tail for Efficient Protein Delivery Both and. *Nano Letters*, **2020**, 20, 8600-8607	11.5	26
53	Multilevel Manipulation of Supramolecular Structures of Giant Molecules via Macromolecular Composition and Sequence. *ACS Macro Letters*, **2018**, 7, 635-640	6.6	26
52	Reduced polydopamine nanoparticles incorporated oxidized dextran/chitosan hybrid hydrogels with enhanced antioxidative and antibacterial properties for accelerated wound healing. *Carbohydrate Polymers*, **2021**, 257, 117598	10.3	25
51	Transition Kinetics of Self-Assembled Supramolecular Dodecagonal Quasicrystal and Frank Kasper Phases in ABn Dendron-Like Giant Molecules. *ACS Macro Letters*, **2019**, 8, 875-881	6.6	24
50	Tea stain-inspired solar energy harvesting polyphenolic nanocoatings with tunable absorption spectra. *Nano Research*, **2021**, 14, 969-975	10	22

49	Photoresponsive Amphiphilic Macrocycles Containing Main-Chain Azobenzene Polymers. *Macromolecular Rapid Communications*, **2015**, 36, 1341-7	4.8	20
48	Recent Progress of Crosslinking Strategies for Polymeric Micelles with Enhanced Drug Delivery in Cancer Therapy. *Current Medicinal Chemistry*, **2019**, 26, 2356-2376	4.3	20
47	Bioinspired fluorescent dihydroxyindoles oligomers. *Chinese Chemical Letters*, **2020**, 31, 783-786	8.1	20
46	Precision synthesis of macrocyclic giant surfactants tethered with two different polyhedral oligomeric silsesquioxanes at distinct ring locations via four consecutive “click” reactions. *Polymer Chemistry*, **2015**, 6, 827-837	4.9	19
45	Recent Advances in Synthesis and Identification of Cyclic Peptides for Bioapplications. *Current Topics in Medicinal Chemistry*, **2017**, 17, 2302-2318	3	19
44	Natural polyphenol fluorescent polymer dots. *Green Chemistry*, **2021**, 23, 1834-1839	10	18
43	Strontium-doped calcium polyphosphate/ultrahigh molecular weight polyethylene composites: A new class of artificial joint components with enhanced biological efficacy to aseptic loosening. *Materials Science and Engineering C*, **2016**, 61, 526-33	8.3	17
42	Therapeutic Nanoparticles from Grape Seed for Modulating Oxidative Stress. *Small*, **2021**, 17, e2102485	11	16
41	Bioinspired Integration of Naturally Occurring Molecules towards Universal and Smart Antibacterial Coatings. *Advanced Functional Materials*,2108749	15.6	16
40	Smart azobenzene-containing tubular polymersomes: fabrication and multiple morphological tuning. *Chemical Communications*, **2020**, 56, 6237-6240	5.8	15
39	Enzyme-regulated topology of a cyclic peptide brush polymer for tuning assembly. *Chemical Communications*, **2015**, 51, 17108-11	5.8	14
38	Froth flotation giant surfactants. *Polymer*, **2019**, 162, 58-62	3.9	14
37	Sequence isomeric giant surfactants with distinct self-assembly behaviors in solution. *Chemical Communications*, **2019**, 55, 636-639	5.8	13
36	Cyclic azobenzene-containing amphiphilic diblock copolymers: solution self-assembly and unusual photo-responsive behaviors. *Polymer Chemistry*, **2015**, 6, 3009-3013	4.9	13
35	Biomacrocyclic side-chain liquid crystalline polymers bearing cholesterol mesogens: facile synthesis and topological effect study. *Polymer Chemistry*, **2015**, 6, 6885-6893	4.9	13
34	Metal-phenolic network green flame retardants. *Polymer*, **2021**, 221, 123627	3.9	13
33	Natural polyphenol assisted delivery of single-strand oligonucleotides by cationic polymers. *Gene Therapy*, **2020**, 27, 383-391	4	12
32	Modular construction of macrocycle-based topological polymers via high-efficient thiol chemistry. *Polymer Chemistry*, **2015**, 6, 2879-2891	4.9	12

31	Quantification of cylindrospermopsin, anatoxin-a and homoanatoxin-a in cyanobacterial bloom freshwater using direct injection/SPE coupled with UPLC-MS/MS. *Science of the Total Environment*, **2020**, 731, 139014	10.2	11
30	Polycatechol Mediated Small Interfering RNA Delivery for the Treatment of Ulcerative Colitis. *Advanced Functional Materials*, **2021**, 31, 2101646	15.6	11
29	Self-assembly of amphiphilic macrocycles containing polymeric liquid crystal grafts in solution. *Polymer Chemistry*, **2016**, 7, 2785-2789	4.9	11
28	Fabrication of Functional Polycatechol Nanoparticles.. *ACS Macro Letters*, **2022**, 11, 251-256	6.6	10
27	Aminoglycoside-Based Biomaterials: From Material Design to Antibacterial and Gene Delivery Applications. *Advanced Functional Materials*, **2021**, 31, 2103718	15.6	10
26	Size Regulation of Polydopamine Nanoparticles by Boronic Acid and Lewis Base.. *Macromolecular Rapid Communications*, **2022**, e2100916	4.8	9
25	Dynamic Polymer Amphiphiles for Efficient Intracellular and In Vivo Protein Delivery. *Advanced Materials*, **2021**, 33, e2104355	24	9
24	Efficient Iron and ROS Nanoscavengers for Brain Protection after Intracerebral Hemorrhage. *ACS Applied Materials & Interfaces*, **2021**, 13, 9729-9738	9.5	9
23	Green Nanoparticle Scavengers against Oxidative Stress. *ACS Applied Materials & Interfaces*, **2021**, 13, 39126-39134	9.5	9
22	Polyphenolic Sunscreens for Photoprotection. *Green Chemistry*,	10	9
21	Sequence-Mandated, Distinct Assembly of Giant Molecules. *Angewandte Chemie*, **2017**, 129, 15210-15215	3.6	8
20	Cooperation of Amphiphilicity and Smectic Order in Regulating the Self-Assembly of Cholesterol-Functionalized Brush-Like Block Copolymers. *Langmuir*, **2018**, 34, 11034-11041	4	8
19	Metal-phenolic network coated cellulose foams for solar-driven clean water production. *Carbohydrate Polymers*, **2021**, 254, 117404	10.3	8
18	A sensitive and accurate method for simultaneous analysis of algal toxins in freshwater using UPLC-MS/MS and N-microcystins as isotopically labelled internal standards. *Science of the Total Environment*, **2020**, 738, 139727	10.2	7
17	Electrochemical Ring-Opening Dicarboxylation of Strained Carbon-Carbon Single Bonds with CO: Facile Synthesis of Diacids and Derivatization into Polyesters.. *Journal of the American Chemical Society*, **2022**,	16.4	6
16	Synthetic melanin facilitates MnO supercapacitors with high specific capacitance and wide operation potential window. *Polymer*, **2021**, 235, 124276	3.9	6
15	Recent Advances in Targeting Nuclear Molecular Imaging Driven by Tetrazine Bioorthogonal Chemistry. *Current Medicinal Chemistry*, **2020**, 27, 3924-3943	4.3	5
14	Morphological modulation of azobenzene-containing tubular polymersomes. *Polymer Chemistry*, **2021**, 12, 3052-3059	4.9	5

13	l-Arginine/nanofish bone nanocomplex enhances bone regeneration via antioxidant activities and osteoimmunomodulatory properties. *Chinese Chemical Letters*, **2021**, 32, 234-238	8.1	5
12	S,S-Tetrazine-Based Hydrogels with Visible Light Cleavable Properties for On-Demand Anticancer Drug Delivery. *Research*, **2020**, 2020, 6563091	7.8	4
11	Layer-by-layer assembled smart antibacterial coatings via mussel-inspired polymerization and dynamic covalent chemistry.. *Advanced Healthcare Materials*, **2022**, e2200112	10.1	4
10	Boosting the Optical Absorption of Melanin-like Polymers. *Macromolecules*, **2022**, 55, 3493-3501	5.5	4
9	Stimuli-Responsive Materials: Enzyme-Responsive Nanoparticles for Targeted Accumulation and Prolonged Retention in Heart Tissue after Myocardial Infarction (Adv. Mater. 37/2015). *Advanced Materials*, **2015**, 27, 5446-5446	24	3
8	Carrier-Free Deferoxamine Nanoparticles against Iron Overload in Brain. *CCS Chemistry*,1-30	7.2	3
7	Polydopamine Nanomaterials: Metal-Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics (Small 18/2020). *Small*, **2020**, 16, 2070102	11	2
6	Smart supramolecular nanofibers and nanoribbons from uniform amphiphilic azobenzene oligomers. *Chemical Communications*, **2021**, 57, 2192-2195	5.8	2
5	Phase Behaviors of Multi-tailed B2AB2-Type Regio-isomeric Giant Surfactants at the Columnar-Spherical Boundary *Chinese Journal of Chemistry*, **2021**, 39, 3261	4.9	2
4	Ion-modulated flow behavior of layer-by-layer fabricated polymer thin films. *RSC Advances*, **2015**, 5, 64192-64195	3.7	2
3	Improving the Biocompatibility of Dendrimers in Drug Delivery **2012**, 207-237		1
2	Self-Assembly of Poly(Janus particle)s into Unimolecular and Oligomeric Spherical Micelles.. *ACS Macro Letters*, **2021**, 10, 1563-1569	6.6	1
1	Solution Self-Assembly of Giant Surfactants: An Exploration on Molecular Architectures **2018**, 309-329		