

Yiwen Li

List of Publications by Year in descending order

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122
papers

8,851
citations

31976

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124
times ranked

7270
citing authors

#	ARTICLE	IF	CITATIONS
1	Size Regulation of Polydopamine Nanoparticles by Boronic Acid and Lewis Base. <i>Macromolecular Rapid Communications</i> , 2023, 44, e2100916.	3.9	39
2	Carrier-Free Deferoxamine Nanoparticles against Iron Overload in Brain. <i>CCS Chemistry</i> , 2023, 5, 257-270.	7.8	14
3	Bioinspired Integration of Naturally Occurring Molecules towards Universal and Smart Antibacterial Coatings. <i>Advanced Functional Materials</i> , 2022, 32, 2108749.	14.9	71
4	Fabrication of Functional Polycatechol Nanoparticles. <i>ACS Macro Letters</i> , 2022, 11, 251-256.	4.8	31
5	Electrochemical Ring-Opening Dicarboxylation of Strained Carbon-Carbon Single Bonds with CO ₂ : Facile Synthesis of Diacids and Derivatization into Polyesters. <i>Journal of the American Chemical Society</i> , 2022, 144, 2062-2068.	13.7	75
6	Layer-by-Layer Assembled Smart Antibacterial Coatings via Mussel-Inspired Polymerization and Dynamic Covalent Chemistry. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200112.	7.6	33
7	Polyphenolic sunscreens for photoprotection. <i>Green Chemistry</i> , 2022, 24, 3605-3622.	9.0	44
8	Versatile polyphenolic platforms in regulating cell biology. <i>Chemical Society Reviews</i> , 2022, 51, 4175-4198.	38.1	76
9	Boosting the Optical Absorption of Melanin-like Polymers. <i>Macromolecules</i> , 2022, 55, 3493-3501.	4.8	33
10	Propolis inspired sunscreens for efficient UV-protection and skin barrier maintenance. <i>Nano Research</i> , 2022, 15, 8237-8246.	10.4	19
11	Polyphenol scaffolds in tissue engineering. <i>Materials Horizons</i> , 2021, 8, 145-167.	12.2	203
12	Tea stain-inspired solar energy harvesting polyphenolic nanocoatings with tunable absorption spectra. <i>Nano Research</i> , 2021, 14, 969-975.	10.4	46
13	Metal-phenolic network coated cellulose foams for solar-driven clean water production. <i>Carbohydrate Polymers</i> , 2021, 254, 117404.	10.2	36
14	Smart supramolecular nanofibers and nanoribbons from uniform amphiphilic azobenzene oligomers. <i>Chemical Communications</i> , 2021, 57, 2192-2195.	4.1	6
15	Morphological modulation of azobenzene-containing tubular polymersomes. <i>Polymer Chemistry</i> , 2021, 12, 3052-3059.	3.9	11
16	A Mussel-Inspired Polydopamine-Filled Cellulose Aerogel for Solar-Enabled Water Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7617-7624.	8.0	172
17	Efficient Iron and ROS Nanoscaevengers for Brain Protection after Intracerebral Hemorrhage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9729-9738.	8.0	31
18	Boosting solar steam generation by photothermal enhanced polydopamine/wood composites. <i>Polymer</i> , 2021, 217, 123464.	3.8	132

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19	Polycatechol Mediated Small Interfering RNA Delivery for the Treatment of Ulcerative Colitis. <i>Advanced Functional Materials</i> , 2021, 31, 2101646.	14.9	30
20	Emergence of melanin-inspired supercapacitors. <i>Nano Today</i> , 2021, 37, 101075.	11.9	121
21	Metal-phenolic network green flame retardants. <i>Polymer</i> , 2021, 221, 123627.	3.8	40
22	Reduced polydopamine nanoparticles incorporated oxidized dextran/chitosan hybrid hydrogels with enhanced antioxidative and antibacterial properties for accelerated wound healing. <i>Carbohydrate Polymers</i> , 2021, 257, 117598.	10.2	95
23	Flexible Polydopamine Bioelectronics. <i>Advanced Functional Materials</i> , 2021, 31, 2103391.	14.9	102
24	Aminoglycoside-Based Biomaterials: From Material Design to Antibacterial and Gene Delivery Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2103718.	14.9	28
25	Green Nanoparticle Scavengers against Oxidative Stress. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39126-39134.	8.0	30
26	Phase Behaviors of Multi-tailed B ₂ AB ₂ -Type Regioisomeric Giant Surfactants at the Columnar-Spherical Boundary. <i>Chinese Journal of Chemistry</i> , 2021, 39, 3261.	4.9	7
27	L-Arginine/nanofish bone nanocomplex enhances bone regeneration via antioxidant activities and osteoimmunomodulatory properties. <i>Chinese Chemical Letters</i> , 2021, 32, 234-238.	9.0	14
28	Polydopamine antibacterial materials. <i>Materials Horizons</i> , 2021, 8, 1618-1633.	12.2	246
29	Natural polyphenol fluorescent polymer dots. <i>Green Chemistry</i> , 2021, 23, 1834-1839.	9.0	44
30	Stimuli-responsive polydopamine-based smart materials. <i>Chemical Society Reviews</i> , 2021, 50, 8319-8343.	38.1	262
31	Therapeutic Nanoparticles from Grape Seed for Modulating Oxidative Stress. <i>Small</i> , 2021, 17, e2102485.	10.0	57
32	Synthetic melanin facilitates MnO supercapacitors with high specific capacitance and wide operation potential window. <i>Polymer</i> , 2021, 235, 124276.	3.8	43
33	Dynamic Polymer Amphiphiles for Efficient Intracellular and In Vivo Protein Delivery. <i>Advanced Materials</i> , 2021, 33, e2104355.	21.0	46
34	Self-Assembly of Poly(Janus particle)s into Unimolecular and Oligomeric Spherical Micelles. <i>ACS Macro Letters</i> , 2021, 10, 1563-1569.	4.8	17
35	Bioinspired fluorescent dihydroxyindoles oligomers. <i>Chinese Chemical Letters</i> , 2020, 31, 783-786.	9.0	28
36	Recent developments in polydopamine fluorescent nanomaterials. <i>Materials Horizons</i> , 2020, 7, 746-761.	12.2	171

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37	Photothermal-enhanced synthetic melanin inks for near-infrared imaging. <i>Polymer</i> , 2020, 186, 122042.	3.8	57
38	Antioxidant shape amphiphiles for accelerated wound healing. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7018-7023.	5.8	40
39	Natural polyphenols in drug delivery systems: Current status and future challenges. <i>Giant</i> , 2020, 3, 100022.	5.1	102
40	Metal ion-promoted fabrication of melanin-like poly(L-DOPA) nanoparticles for photothermal actuation. <i>Science China Chemistry</i> , 2020, 63, 1295-1305.	8.2	50
41	Polydopamine free radical scavengers. <i>Biomaterials Science</i> , 2020, 8, 4940-4950.	5.4	180
42	Regulating the absorption spectrum of polydopamine. <i>Science Advances</i> , 2020, 6, .	10.3	254
43	Ultrasmall Nanoparticle ROS Scavengers Based on Polyhedral Oligomeric Silsesquioxanes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1149-1156.	3.8	49
44	Bifunctional and Bioreducible Dendrimer Bearing a Fluoroalkyl Tail for Efficient Protein Delivery Both <i>in Vitro</i> and <i>in Vivo</i> . <i>Nano Letters</i> , 2020, 20, 8600-8607.	9.1	51
45	Polydopamine Nanomaterials: Metal-Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics (Small 18/2020). <i>Small</i> , 2020, 16, 2070102.	10.0	4
46	Natural polyphenol assisted delivery of single-strand oligonucleotides by cationic polymers. <i>Gene Therapy</i> , 2020, 27, 383-391.	4.5	27
47	A sensitive and accurate method for simultaneous analysis of algal toxins in freshwater using UPLC-MS/MS and 15N-microcystins as isotopically labelled internal standards. <i>Science of the Total Environment</i> , 2020, 738, 139727.	8.0	15
48	Integrated POSS-dendrimer nanohybrid materials: current status and future perspective. <i>Nanoscale</i> , 2020, 12, 11395-11415.	5.6	55
49	ROS Scavenging Biopolymers for Anti-inflammatory Diseases: Classification and Formulation. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000632.	3.7	92
50	Metal-Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics. <i>Small</i> , 2020, 16, e1907042.	10.0	240
51	Reductive dearomative arylcarboxylation of indoles with CO ₂ via visible-light photoredox catalysis. <i>Nature Communications</i> , 2020, 11, 3263.	12.8	100
52	Flexible and Robust Polyaniline Composites for Highly Efficient and Durable Solar Desalination. <i>ACS Applied Energy Materials</i> , 2020, 3, 2634-2642.	5.1	73
53	Quantification of cylindrospermopsin, anatoxin-a and homoanatoxin-a in cyanobacterial bloom freshwater using direct injection/SPE coupled with UPLC-MS/MS. <i>Science of the Total Environment</i> , 2020, 731, 139014.	8.0	13
54	Smart azobenzene-containing tubular polymersomes: fabrication and multiple morphological tuning. <i>Chemical Communications</i> , 2020, 56, 6237-6240.	4.1	21

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55	Recent Advances in Targeting Nuclear Molecular Imaging Driven by Tetrazine Bioorthogonal Chemistry. <i>Current Medicinal Chemistry</i> , 2020, 27, 3924-3943.	2.4	7
56	Structural and Functional Tailoring of Melanin-Like Polydopamine Radical Scavengers. <i>CCS Chemistry</i> , 2020, 2, 128-138.	7.8	99
57	Natural Polyphenol Inspired Polycatechols for Efficient siRNA Delivery. <i>CCS Chemistry</i> , 2020, 2, 146-157.	7.8	71
58	S,S-Tetrazine-Based Hydrogels with Visible Light Cleavable Properties for On-Demand Anticancer Drug Delivery. <i>Research</i> , 2020, 2020, 6563091.	5.7	12
59	Smart Hydrogels with Antibacterial Properties Built from All Natural Building Blocks. <i>Chemistry of Materials</i> , 2019, 31, 7678-7685.	6.7	97
60	Synthetic Biopigment Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30360-30367.	8.0	50
61	Transition Kinetics of Self-Assembled Supramolecular Dodecagonal Quasicrystal and Frank-Kasper $\bar{1}f$ Phases in AB _n Dendron-Like Giant Molecules. <i>ACS Macro Letters</i> , 2019, 8, 875-881.	4.8	39
62	Size control synthesis of melanin-like polydopamine nanoparticles by tuning radicals. <i>Polymer Chemistry</i> , 2019, 10, 4194-4200.	3.9	81
63	Tailoring Synthetic Melanin Nanoparticles for Enhanced Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42671-42679.	8.0	105
64	Sequence isomeric giant surfactants with distinct self-assembly behaviors in solution. <i>Chemical Communications</i> , 2019, 55, 636-639.	4.1	18
65	Functional Peptides and Small Molecules in Medicinal Chemistry-Part I. <i>Current Topics in Medicinal Chemistry</i> , 2019, 19, 2-3.	2.1	1
66	Bi-phase fire-resistant polyethylenimine/graphene oxide/melanin coatings using layer by layer assembly technique: Smoke suppression and thermal stability of flexible polyurethane foams. <i>Polymer</i> , 2019, 170, 65-75.	3.8	51
67	Functional Peptides and Small Molecules in Medicinal Chemistry-Part II. <i>Current Topics in Medicinal Chemistry</i> , 2019, 19, 186-186.	2.1	0
68	Synthetic Melanin Hybrid Patchy Nanoparticle Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5345-5352.	3.1	34
69	Recent Progress of Crosslinking Strategies for Polymeric Micelles with Enhanced Drug Delivery in Cancer Therapy. <i>Current Medicinal Chemistry</i> , 2019, 26, 2356-2376.	2.4	37
70	Froth flotation giant surfactants. <i>Polymer</i> , 2019, 162, 58-62.	3.8	19
71	Click chemistry in polymeric scaffolds: Bioactive materials for tissue engineering. <i>Journal of Controlled Release</i> , 2018, 273, 160-179.	9.9	172
72	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. <i>Accounts of Chemical Research</i> , 2018, 51, 3-11.	15.6	78

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73	Foe to Friend: Supramolecular Nanomedicines Consisting of Natural Polyphenols and Bortezomib. <i>Nano Letters</i> , 2018, 18, 7045-7051.	9.1	109
74	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
75	Multifunctional melanin-like nanoparticles for bone-targeted chemo-photothermal therapy of malignant bone tumors and osteolysis. <i>Biomaterials</i> , 2018, 183, 10-19.	11.4	105
76	Cooperation of Amphiphilicity and Smectic Order in Regulating the Self-Assembly of Cholesterol-Functionalized Brush-Like Block Copolymers. <i>Langmuir</i> , 2018, 34, 11034-11041.	3.5	11
77	Skin Pigmentation-Inspired Polydopamine Sunscreens. <i>Advanced Functional Materials</i> , 2018, 28, 1802127.	14.9	122
78	Synthetic Melanin E-Ink. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16553-16560.	8.0	39
79	Mimicking Melanosomes: Polydopamine Nanoparticles as Artificial Microparasols. <i>ACS Central Science</i> , 2017, 3, 564-569.	11.3	118
80	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. <i>Chemistry of Materials</i> , 2017, 29, 8195-8201.	6.7	80
81	High Relaxivity Gadolinium-Polydopamine Nanoparticles. <i>Small</i> , 2017, 13, 1701830.	10.0	48
82	Sequence-Mandated, Distinct Assembly of Giant Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15014-15019.	13.8	57
83	Sequence-Mandated, Distinct Assembly of Giant Molecules. <i>Angewandte Chemie</i> , 2017, 129, 15210-15215.	2.0	9
84	Bioinspired bright noniridescent photonic melanin supraballs. <i>Science Advances</i> , 2017, 3, e1701151.	10.3	177
85	Green Tea Makes Polyphenol Nanoparticles with Radical-Scavenging Activities. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700446.	3.9	70
86	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
87	Clickable and imageable multiblock polymer micelles with magnetically guided and PEG-switched targeting and release property for precise tumor theranosis. <i>Biomaterials</i> , 2017, 145, 138-153.	11.4	67
88	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
89	Autophagy inhibition enabled efficient photothermal therapy at a mild temperature. <i>Biomaterials</i> , 2017, 141, 116-124.	11.4	143
90	Recent Advances in Synthesis and Identification of Cyclic Peptides for Bioapplications. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2302-2318.	2.1	28

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91	Stimuli-Responsive Structurally Colored Films from Bioinspired Synthetic Melanin Nanoparticles. <i>Chemistry of Materials</i> , 2016, 28, 5516-5521.	6.7	101
92	Polycatechol Nanoparticle MRI Contrast Agents. <i>Small</i> , 2016, 12, 668-677.	10.0	64
93	Self-assembly of amphiphilic macrocycles containing polymeric liquid crystal grafts in solution. <i>Polymer Chemistry</i> , 2016, 7, 2785-2789.	3.9	13
94	Structure and Function of Iron-Loaded Synthetic Melanin. <i>ACS Nano</i> , 2016, 10, 10186-10194.	14.6	127
95	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
96	Janus POSS Based on Mixed [2:6] Octakisâ€Adduct Regioisomers. <i>Chemistry - A European Journal</i> , 2016, 22, 6397-6403.	3.3	35
97	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
98	Strontium-doped calcium polyphosphate/ultrahigh molecular weight polyethylene composites: A new class of artificial joint components with enhanced biological efficacy to aseptic loosening. <i>Materials Science and Engineering C</i> , 2016, 61, 526-533.	7.3	21
99	Enzymeâ€Responsive Nanoparticles for Targeted Accumulation and Prolonged Retention in Heart Tissue after Myocardial Infarction. <i>Advanced Materials</i> , 2015, 27, 5547-5552.	21.0	229
100	Photoresponsive Amphiphilic Macrocycles Containing Main-Chain Azobenzene Polymers. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1341-1347.	3.9	24
101	Modular construction of macrocycle-based topological polymers via high-efficient thiol chemistry. <i>Polymer Chemistry</i> , 2015, 6, 2879-2891.	3.9	12
102	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
103	Cyclic azobenzene-containing amphiphilic diblock copolymers: solution self-assembly and unusual photo-responsive behaviors. <i>Polymer Chemistry</i> , 2015, 6, 3009-3013.	3.9	14
104	Ion-modulated flow behavior of layer-by-layer fabricated polymer thin films. <i>RSC Advances</i> , 2015, 5, 64192-64195.	3.6	3
105	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. <i>Science</i> , 2015, 348, 424-428.	12.6	338
106	Bio-Inspired Structural Colors Produced <i>via</i> Self-Assembly of Synthetic Melanin Nanoparticles. <i>ACS Nano</i> , 2015, 9, 5454-5460.	14.6	244
107	Biomacrocyclic side-chain liquid crystalline polymers bearing cholesterol mesogens: facile synthesis and topological effect study. <i>Polymer Chemistry</i> , 2015, 6, 6885-6893.	3.9	14
108	Stimuli-Responsive Materials: Enzyme-Responsive Nanoparticles for Targeted Accumulation and Prolonged Retention in Heart Tissue after Myocardial Infarction (<i>Adv. Mater.</i> 37/2015). <i>Advanced Materials</i> , 2015, 27, 5446-5446.	21.0	3

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109	Enzyme-regulated topology of a cyclic peptide brush polymer for tuning assembly. <i>Chemical Communications</i> , 2015, 51, 17108-17111.	4.1	17
110	Precision synthesis of macrocyclic giant surfactants tethered with two different polyhedral oligomeric silsesquioxanes at distinct ring locations via four consecutive "click" reactions. <i>Polymer Chemistry</i> , 2015, 6, 827-837.	3.9	19
111	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
112	Molecular Nanoparticles Are Unique Elements for Macromolecular Science: From "Nanoatoms" to Giant Molecules. <i>Macromolecules</i> , 2014, 47, 1221-1239.	4.8	308
113	"Clicking" fluorinated polyhedral oligomeric silsesquioxane onto polymers: a modular approach toward shape amphiphiles with fluorous molecular clusters. <i>Polymer Chemistry</i> , 2014, 5, 3588.	3.9	35
114	Tuning "thiol-ene" reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. <i>Chemical Science</i> , 2014, 5, 1046-1053.	7.4	61
115	Macromolecular structure evolution toward giant molecules of complex structure: tandem synthesis of asymmetric giant gemini surfactants. <i>Polymer Chemistry</i> , 2014, 5, 3697.	3.9	36
116	Thiol-Michael "click" chemistry: another efficient tool for head functionalization of giant surfactants. <i>Polymer Chemistry</i> , 2014, 5, 6151-6162.	3.9	33
117	Sequential Triple "Click" Approach toward Polyhedral Oligomeric Silsesquioxane-Based Multiheaded and Multitailed Giant Surfactants. <i>ACS Macro Letters</i> , 2013, 2, 645-650.	4.8	52
118	Cascading One-Pot Synthesis of Single-Tailed and Asymmetric Multitailed Giant Surfactants. <i>ACS Macro Letters</i> , 2013, 2, 1026-1032.	4.8	41
119	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
120	Giant surfactants provide a versatile platform for sub-10-nm nanostructure engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10078-10083.	7.1	202
121	Synthesis of fullerene-containing poly(ethylene oxide)- <i>block</i> -polystyrene as model shape amphiphiles with variable composition, diverse architecture, and high fullerene functionality. <i>Polymer Chemistry</i> , 2012, 3, 124-134.	3.9	44
122	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