Yiwen Li

List of Publications by Year in descending order

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122 papers	8,851 citations	31976 53 h-index	45317 90 g-index
124 all docs	124 docs citations	124 times ranked	7270 citing authors

#	Article	IF	Citations
1	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. Science, 2015, 348, 424-428.	12.6	338
2	Molecular Nanoparticles Are Unique Elements for Macromolecular Science: From â€œNanoatomsâ€• to Giant Molecules. Macromolecules, 2014, 47, 1221-1239.	4.8	308
3	Stimuli-responsive polydopamine-based smart materials. Chemical Society Reviews, 2021, 50, 8319-8343.	38.1	262
4	Regulating the absorption spectrum of polydopamine. Science Advances, 2020, 6, .	10.3	254
5	Polydopamine antibacterial materials. Materials Horizons, 2021, 8, 1618-1633.	12.2	246
6	Bio-Inspired Structural Colors Produced via Self-Assembly of Synthetic Melanin Nanoparticles. ACS Nano, 2015, 9, 5454-5460.	14.6	244
7	Metalâ€Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics. Small, 2020, 16, e1907042.	10.0	240
8	Enzymeâ€Responsive Nanoparticles for Targeted Accumulation and Prolonged Retention in Heart Tissue after Myocardial Infarction. Advanced Materials, 2015, 27, 5547-5552.	21.0	229
9	Polyphenol scaffolds in tissue engineering. Materials Horizons, 2021, 8, 145-167.	12.2	203
10	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, 10078-10083.	7.1	202
11	Polydopamine free radical scavengers. Biomaterials Science, 2020, 8, 4940-4950.	5.4	180
12	Bioinspired bright noniridescent photonic melanin supraballs. Science Advances, 2017, 3, e1701151.	10.3	177
13	â€œClickâ€•chemistry in polymeric scaffolds: Bioactive materials for tissue engineering. Journal of Controlled Release, 2018, 273, 160-179.	9.9	172
14	A Mussel-Inspired Polydopamine-Filled Cellulose Aerogel for Solar-Enabled Water Remediation. ACS Applied Materials & Interfaces, 2021, 13, 7617-7624.	8.0	172
15	Recent developments in polydopamine fluorescent nanomaterials. Materials Horizons, 2020, 7, 746-761.	12.2	171
16	Breaking Symmetry toward Nonspherical Janus Particles Based on Polyhedral Oligomeric Silsesquioxanes: Molecular Design, â€œClickâ€•Synthesis, and Hierarchical Structure. Journal of the American Chemical Society, 2011, 133, 10712-10715.	13.7	148
17	Autophagy inhibition enabled efficient photothermal therapy at a mild temperature. Biomaterials, 2017, 141, 116-124.	11.4	143
18	Boosting solar steam generation by photothermal enhanced polydopamine/wood composites. Polymer, 2021, 217, 123464.	3.8	132

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19	Structure and Function of Iron-Loaded Synthetic Melanin. ACS Nano, 2016, 10, 10186-10194.	14.6	127
20	Polyhedral oligomeric silsesquioxane meets â€œclickâ€•chemistry: Rational design and facile preparation of functional hybrid materials. Polymer, 2017, 125, 303-329.	3.8	123
21	Skin Pigmentationâ€Inspired Polydopamine Sunscreens. Advanced Functional Materials, 2018, 28, 1802127.	14.9	122
22	Emergence of melanin-inspired supercapacitors. Nano Today, 2021, 37, 101075.	11.9	121
23	Mimicking Melanosomes: Polydopamine Nanoparticles as Artificial Microparasols. ACS Central Science, 2017, 3, 564-569.	11.3	118
24	Giant gemini surfactants based on polystyreneâ€“hydrophilic polyhedral oligomeric silsesquioxane shape amphiphiles: sequential â€œclickâ€•chemistry and solution self-assembly. Chemical Science, 2013, 4, 1345.	7.4	111
25	Foe to Friend: Supramolecular Nanomedicines Consisting of Natural Polyphenols and Bortezomib. Nano Letters, 2018, 18, 7045-7051.	9.1	109
26	Multifunctional melanin-like nanoparticles for bone-targeted chemo-photothermal therapy of malignant bone tumors and osteolysis. Biomaterials, 2018, 183, 10-19.	11.4	105
27	Tailoring Synthetic Melanin Nanoparticles for Enhanced Photothermal Therapy. ACS Applied Materials & Interfaces, 2019, 11, 42671-42679.	8.0	105
28	Natural polyphenols in drug delivery systems: Current status and future challenges. Giant, 2020, 3, 100022.	5.1	102
29	Flexible Polydopamine Bioelectronics. Advanced Functional Materials, 2021, 31, 2103391.	14.9	102
30	Stimuli-Responsive Structurally Colored Films from Bioinspired Synthetic Melanin Nanoparticles. Chemistry of Materials, 2016, 28, 5516-5521.	6.7	101
31	Reductive dearomative arylcarboxylation of indoles with CO2 via visible-light photoredox catalysis. Nature Communications, 2020, 11, 3263.	12.8	100
32	Structural and Functional Tailoring of Melanin-Like Polydopamine Radical Scavengers. CCS Chemistry, 2020, 2, 128-138.	7.8	99
33	Smart Hydrogels with Antibacterial Properties Built from All Natural Building Blocks. Chemistry of Materials, 2019, 31, 7678-7685.	6.7	97
34	Reduced polydopamine nanoparticles incorporated oxidized dextran/chitosan hybrid hydrogels with enhanced antioxidative and antibacterial properties for accelerated wound healing. Carbohydrate Polymers, 2021, 257, 117598.	10.2	95
35	ROS Scavenging Biopolymers for Antiâ€Inflammatory Diseases: Classification and Formulation. Advanced Materials Interfaces, 2020, 7, 2000632.	3.7	92
36	Size control synthesis of melanin-like polydopamine nanoparticles by tuning radicals. Polymer Chemistry, 2019, 10, 4194-4200.	3.9	81

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37	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. Chemistry of Materials, 2017, 29, 8195-8201.	6.7	80
38	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. Accounts of Chemical Research, 2018, 51, 3-11.	15.6	78
39	Toward Controlled Hierarchical Heterogeneities in Giant Molecules with Precisely Arranged Nano Building Blocks. ACS Central Science, 2016, 2, 48-54.	11.3	76
40	Versatile polyphenolic platforms in regulating cell biology. Chemical Society Reviews, 2022, 51, 4175-4198.	38.1	76
41	Electrochemical Ring-Opening Dicarboxylation of Strained Carbonâ€“Carbon Single Bonds with CO₂: Facile Synthesis of Diacids and Derivatization into Polyesters. Journal of the American Chemical Society, 2022, 144, 2062-2068.	13.7	75
42	Flexible and Robust Polyaniline Composites for Highly Efficient and Durable Solar Desalination. ACS Applied Energy Materials, 2020, 3, 2634-2642.	5.1	73
43	Natural Polyphenol Inspired Polycatechols for Efficient siRNA Delivery. CCS Chemistry, 2020, 2, 146-157.	7.8	71
44	Bioinspired Integration of Naturally Occurring Molecules towards Universal and Smart Antibacterial Coatings. Advanced Functional Materials, 2022, 32, 2108749.	14.9	71
45	Green Tea Makes Polyphenol Nanoparticles with Radicalâ€Scavenging Activities. Macromolecular Rapid Communications, 2017, 38, 1700446.	3.9	70
46	Giant surfactants based on molecular nanoparticles: Precise synthesis and solution selfâ€assembly. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1309-1325.	2.1	69
47	Hierarchical Self-Organization of AB_n Dendron-like Molecules into a Supramolecular Lattice Sequence. ACS Central Science, 2017, 3, 860-867.	11.3	69
48	Pathway toward Large Two-Dimensional Hexagonally Patterned Colloidal Nanosheets in Solution. Journal of the American Chemical Society, 2015, 137, 1392-1395.	13.7	68
49	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.	11.4	67
50	Polycatechol Nanoparticle MRI Contrast Agents. Small, 2016, 12, 668-677.	10.0	64
51	Tuning â€œthiol-eneâ€•reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. Chemical Science, 2014, 5, 1046-1053.	7.4	61
52	Sequenceâ€Mandated, Distinct Assembly of Giant Molecules. Angewandte Chemie - International Edition, 2017, 56, 15014-15019.	13.8	57
53	Photothermal-enhanced synthetic melanin inks for near-infrared imaging. Polymer, 2020, 186, 122042.	3.8	57
54	Therapeutic Nanoparticles from Grape Seed for Modulating Oxidative Stress. Small, 2021, 17, e2102485.	10.0	57

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55	Integrated POSS-dendrimer nanohybrid materials: current status and future perspective. Nanoscale, 2020, 12, 11395-11415.	5.6	55
56	Sequential Triple â€œClickâ€•Approach toward Polyhedral Oligomeric Silsesquioxane-Based Multiheaded and Multitailed Giant Surfactants. ACS Macro Letters, 2013, 2, 645-650.	4.8	52
57	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.	3.8	51
58	Bifunctional and Bioreducible Dendrimer Bearing a Fluoroalkyl Tail for Efficient Protein Delivery Both In Vitro and In Vivo. Nano Letters, 2020, 20, 8600-8607.	9.1	51
59	Synthetic Biopigment Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 30360-30367.	8.0	50
60	Metal ion-promoted fabrication of melanin-like poly(L-DOPA) nanoparticles for photothermal actuation. Science China Chemistry, 2020, 63, 1295-1305.	8.2	50
61	Ultrasmall Nanoparticle ROS Scavengers Based on Polyhedral Oligomeric Silsesquioxanes. Chinese Journal of Polymer Science (English Edition), 2020, 38, 1149-1156.	3.8	49
62	High Relaxivity Gadoliniumâ€Polydopamine Nanoparticles. Small, 2017, 13, 1701830.	10.0	48
63	Tea stain-inspired solar energy harvesting polyphenolic nanocoatings with tunable absorption spectra. Nano Research, 2021, 14, 969-975.	10.4	46
64	Dynamic Polymer Amphiphiles for Efficient Intracellular and In Vivo Protein Delivery. Advanced Materials, 2021, 33, e2104355.	21.0	46
65	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.	3.9	44
66	Natural polyphenol fluorescent polymer dots. Green Chemistry, 2021, 23, 1834-1839.	9.0	44
67	Polyphenolic sunscreens for photoprotection. Green Chemistry, 2022, 24, 3605-3622.	9.0	44
68	Synthetic melanin facilitates MnO supercapacitors with high specific capacitance and wide operation potential window. Polymer, 2021, 235, 124276.	3.8	43
69	Cascading One-Pot Synthesis of Single-Tailed and Asymmetric Multitailed Giant Surfactants. ACS Macro Letters, 2013, 2, 1026-1032.	4.8	41
70	Antioxidant shape amphiphiles for accelerated wound healing. Journal of Materials Chemistry B, 2020, 8, 7018-7023.	5.8	40
71	Metal-phenolic network green flame retardants. Polymer, 2021, 221, 123627.	3.8	40
72	Synthetic Melanin E-Ink. ACS Applied Materials & Interfaces, 2017, 9, 16553-16560.	8.0	39

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73	Transition Kinetics of Self-Assembled Supramolecular Dodecagonal Quasicrystal and Frankâ€“Kasper Ïƒ Phases in AB_n Dendron-Like Giant Molecules. ACS Macro Letters, 2019, 8, 875-881.	4.8	39
74	Size Regulation of Polydopamine Nanoparticles by Boronic Acid and Lewis Base. Macromolecular Rapid Communications, 2023, 44, e2100916.	3.9	39
75	Recent Progress of Crosslinking Strategies for Polymeric Micelles with Enhanced Drug Delivery in Cancer Therapy. Current Medicinal Chemistry, 2019, 26, 2356-2376.	2.4	37
76	Macromolecular structure evolution toward giant molecules of complex structure: tandem synthesis of asymmetric giant gemini surfactants. Polymer Chemistry, 2014, 5, 3697.	3.9	36
77	Metal-phenolic network coated cellulose foams for solar-driven clean water production. Carbohydrate Polymers, 2021, 254, 117404.	10.2	36
78	â€œClickingâ€•fluorinated polyhedral oligomeric silsesquioxane onto polymers: a modular approach toward shape amphiphiles with fluorous molecular clusters. Polymer Chemistry, 2014, 5, 3588.	3.9	35
79	Janus POSS Based on Mixed [2:6] Octakisâ€Adduct Regioisomers. Chemistry - A European Journal, 2016, 22, 6397-6403.	3.3	35
80	Rational controlled morphological transitions in the self-assembled multi-headed giant surfactants in solution. Chemical Communications, 2016, 52, 8687-8690.	4.1	34
81	Synthetic Melanin Hybrid Patchy Nanoparticle Photocatalysts. Journal of Physical Chemistry C, 2019, 123, 5345-5352.	3.1	34
82	Thiol-Michael â€œclickâ€•chemistry: another efficient tool for head functionalization of giant surfactants. Polymer Chemistry, 2014, 5, 6151-6162.	3.9	33
83	Layerâ€byâ€Layer Assembled Smart Antibacterial Coatings via Musselâ€Inspired Polymerization and Dynamic Covalent Chemistry. Advanced Healthcare Materials, 2022, 11, e2200112.	7.6	33
84	Boosting the Optical Absorption of Melanin-like Polymers. Macromolecules, 2022, 55, 3493-3501.	4.8	33
85	Multilevel Manipulation of Supramolecular Structures of Giant Molecules via Macromolecular Composition and Sequence. ACS Macro Letters, 2018, 7, 635-640.	4.8	31
86	Efficient Iron and ROS Nanoscavengers for Brain Protection after Intracerebral Hemorrhage. ACS Applied Materials & Interfaces, 2021, 13, 9729-9738.	8.0	31
87	Fabrication of Functional Polycatechol Nanoparticles. ACS Macro Letters, 2022, 11, 251-256.	4.8	31
88	Polycatechol Mediated Small Interfering RNA Delivery for the Treatment of Ulcerative Colitis. Advanced Functional Materials, 2021, 31, 2101646.	14.9	30
89	Green Nanoparticle Scavengers against Oxidative Stress. ACS Applied Materials & Interfaces, 2021, 13, 39126-39134.	8.0	30
90	Bioinspired fluorescent dihydroxyindoles oligomers. Chinese Chemical Letters, 2020, 31, 783-786.	9.0	28

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91	Aminoglycosideâ€Based Biomaterials: From Material Design to Antibacterial and Gene Delivery Applications. Advanced Functional Materials, 2021, 31, 2103718.	14.9	28
92	Recent Advances in Synthesis and Identification of Cyclic Peptides for Bioapplications. Current Topics in Medicinal Chemistry, 2017, 17, 2302-2318.	2.1	28
93	Natural polyphenol assisted delivery of single-strand oligonucleotides by cationic polymers. Gene Therapy, 2020, 27, 383-391.	4.5	27
94	Photoresponsive Amphiphilic Macrocycles Containing Main-Chain Azobenzene Polymers. Macromolecular Rapid Communications, 2015, 36, 1341-1347.	3.9	24
95	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, 526-533.	7.3	21
96	Smart azobenzene-containing tubular polymersomes: fabrication and multiple morphological tuning. Chemical Communications, 2020, 56, 6237-6240.	4.1	21
97	Precision synthesis of macrocyclic giant surfactants tethered with two different polyhedral oligomeric silsesquioxanes at distinct ring locations via four consecutive â€œclickâ€•reactions. Polymer Chemistry, 2015, 6, 827-837.	3.9	19
98	Froth flotation giant surfactants. Polymer, 2019, 162, 58-62.	3.8	19
99	Propolis inspired sunscreens for efficient UV-protection and skin barrier maintenance. Nano Research, 2022, 15, 8237-8246.	10.4	19
100	Sequence isomeric giant surfactants with distinct self-assembly behaviors in solution. Chemical Communications, 2019, 55, 636-639.	4.1	18
101	Enzyme-regulated topology of a cyclic peptide brush polymer for tuning assembly. Chemical Communications, 2015, 51, 17108-17111.	4.1	17
102	Self-Assembly of Poly(Janus particle)s into Unimolecular and Oligomeric Spherical Micelles. ACS Macro Letters, 2021, 10, 1563-1569.	4.8	17
103	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. Science of the Total Environment, 2020, 738, 139727.	8.0	15
104	Cyclic azobenzene-containing amphiphilic diblock copolymers: solution self-assembly and unusual photo-responsive behaviors. Polymer Chemistry, 2015, 6, 3009-3013.	3.9	14
105	Biomacrocyclic side-chain liquid crystalline polymers bearing cholesterol mesogens: facile synthesis and topological effect study. Polymer Chemistry, 2015, 6, 6885-6893.	3.9	14
106	l-Arginine/nanofish bone nanocomplex enhances bone regeneration via antioxidant activities and osteoimmunomodulatory properties. Chinese Chemical Letters, 2021, 32, 234-238.	9.0	14
107	Carrier-Free Deferoxamine Nanoparticles against Iron Overload in Brain. CCS Chemistry, 2023, 5, 257-270.	7.8	14
108	Self-assembly of amphiphilic macrocycles containing polymeric liquid crystal grafts in solution. Polymer Chemistry, 2016, 7, 2785-2789.	3.9	13

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109	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.	8.0	13
110	Modular construction of macrocycle-based topological polymers via high-efficient thiol chemistry. Polymer Chemistry, 2015, 6, 2879-2891.	3.9	12
111	S,S-Tetrazine-Based Hydrogels with Visible Light Cleavable Properties for On-Demand Anticancer Drug Delivery. Research, 2020, 2020, 6563091.	5.7	12
112	Cooperation of Amphiphilicity and Smectic Order in Regulating the Self-Assembly of Cholesterol-Functionalized Brush-Like Block Copolymers. Langmuir, 2018, 34, 11034-11041.	3.5	11
113	Morphological modulation of azobenzene-containing tubular polymersomes. Polymer Chemistry, 2021, 12, 3052-3059.	3.9	11
114	Sequenceâ€Mandated, Distinct Assembly of Giant Molecules. Angewandte Chemie, 2017, 129, 15210-15215.	2.0	9
115	Phase Behaviors of Multiâ€tailed B 2 AB 2 â€Type Regioâ€isomeric Giant Surfactants at the Columnarâ€Spherical Boundary. Chinese Journal of Chemistry, 2021, 39, 3261.	4.9	7
116	Recent Advances in Targeting Nuclear Molecular Imaging Driven by Tetrazine Bioorthogonal Chemistry. Current Medicinal Chemistry, 2020, 27, 3924-3943.	2.4	7
117	Smart supramolecular nanofibers and nanoribbons from uniform amphiphilic azobenzene oligomers. Chemical Communications, 2021, 57, 2192-2195.	4.1	6
118	Polydopamine Nanomaterials: Metalâ€Containing Polydopamine Nanomaterials: Catalysis, Energy, and Theranostics (Small 18/2020). Small, 2020, 16, 2070102.	10.0	4
119	Ion-modulated flow behavior of layer-by-layer fabricated polymer thin films. RSC Advances, 2015, 5, 64192-64195.	3.6	3
120	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.	21.0	3
121	Functional Peptides and Small Molecules in Medicinal Chemistry-Part I. Current Topics in Medicinal Chemistry, 2019, 19, 2-3.	2.1	1
122	Functional Peptides and Small Molecules in Medicinal Chemistry-Part II. Current Topics in Medicinal Chemistry, 2019, 19, 186-186.	2.1	0