

# Weizhong Yuan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97  
papers

2,841  
citations

30  
h-index

48  
g-index

102  
ext. papers

3,439  
ext. citations

5.5  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
97	Highly adhesive and dual-crosslinking hydrogel via one-pot self-initiated polymerization for efficient antibacterial, antifouling and full-thickness wound healing. <i>Composites Part B: Engineering</i> , <b>2022</b> , 230, 109525	10	12
96	Highly adhesive, self-healing, anti-freezing and anti-drying organohydrogel with self-power and mechanoluminescence for multifunctional flexible sensor. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 154, 106806	8.4	2
95	Flexible, stimuli-responsive and self-cleaning phase change fiber for thermal energy storage and smart textiles. <i>Composites Part B: Engineering</i> , <b>2022</b> , 228, 109431	10	7
94	Flexible core-sheath thermochromic phase change fibers for temperature management and electrical/solar energy harvesting. <i>Composites Science and Technology</i> , <b>2022</b> , 226, 109538	8.6	2
93	Injectable and self-healing nanocomposite hydrogel loading needle-like nano-hydroxyapatite and graphene oxide for synergistic tumour proliferation inhibition and photothermal therapy. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 9734-9743	7.3	1
92	Highly Stretchable, Adhesive Ionic Liquid-Containing Nanocomposite Hydrogel for Self-Powered Multifunctional Strain Sensors with Temperature Tolerance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	5
91	Hypoxia/Temperature/pH Triple Stimuli-Responsive Block Copolymers: Synthesis, Self-Assembly, and Controlled Drug Release. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2100073	3.9	2
90	Reduction and temperature dually-triggered size-shrinkage and drug release of micelles for synergistic photothermal-chemotherapy of cancer. <i>European Polymer Journal</i> , <b>2021</b> , 154, 110535	5.2	1
89	Amphiphilic copolymers with light-pH-temperature triple stimuli-responses: Preparation, self-assembly and controlled drug release. <i>Materials Letters</i> , <b>2021</b> , 284, 129008	3.3	3
88	Self-healing, anti-freezing, adhesive and remoldable hydrogel sensor with ion-liquid metal dual conductivity for biomimetic skin. <i>Composites Science and Technology</i> , <b>2021</b> , 203, 108608	8.6	37
87	Smart Nanocomposite Nonwoven Wearable Fabrics Embedding Phase Change Materials for Highly Efficient Energy Conversion-Storage and Use as a Stretchable Conductor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4508-4518	9.5	17
86	Adhesive, Stretchable, and Transparent Organohydrogels for Antifreezing, Antidrying, and Sensitive Ionic Skins. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 1474-1485	9.5	57
85	Fabrication of thermoresponsive magnetic micelles from amphiphilic poly(phenyl isocyanide) and Fe <sub>3</sub> O <sub>4</sub> nanoparticles for controlled drug release and synergistic thermochemotherapy. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2132-2140	4.9	6
84	Adhesive, stretchable and antibacterial hydrogel with external/self-power for flexible sensitive sensor used as human motion detection. <i>Composites Part B: Engineering</i> , <b>2021</b> , 220, 108984	10	29
83	Light-enhanced hypoxia-responsive and azobenzene cleavage-triggered size-shrinkable micelles for synergistic photodynamic therapy and chemotherapy. <i>Biomaterials Science</i> , <b>2020</b> , 8, 3348-3358	7.4	11
82	Coordination of injectable self-healing hydrogel with Mn-Zn ferrite@mesoporous silica nanospheres for tumor MR imaging and efficient synergistic magnetothermal-chemo-chemodynamic therapy. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126100	14.7	18
81	NIR/Thermoresponsive Injectable Self-Healing Hydrogels Containing Polydopamine Nanoparticles for Efficient Synergistic Cancer Thermochemotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9118-9131	9.5	30

80	Hypoxia and temperature dual-stimuli-responsive random copolymers: facile synthesis, self-assembly and controlled release of drug. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 10229-10238	3.6	1
79	Thermo- and redox-responsive dumbbell-shaped copolymers: from structure design to the LCST/UCST transition. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 830-842	4.9	3
78	A superhydrophobic poly(lactic acid) electrospun nanofibrous membrane surface-functionalized with TiO <sub>2</sub> nanoparticles and methyltrichlorosilane for oil/water separation and dye adsorption. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 15823-15831	3.6	19
77	Hypoxia-responsive micelles self-assembled from amphiphilic block copolymers for the controlled release of anticancer drugs. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 286-295	7.3	20
76	Fabrication of glucose-responsive and biodegradable copolymer membrane for controlled release of insulin at physiological pH. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 7822-7830	3.6	3
75	Multifunctional magnetic superhydrophobic carbonaceous aerogel with micro/nano-scale hierarchical structures for environmental remediation and energy storage. <i>Applied Surface Science</i> , <b>2019</b> , 480, 851-860	6.7	26
74	Highly Stretchable and Transparent Double-Network Hydrogel Ionic Conductors as Flexible Thermal-Mechanical Dual Sensors and Electroluminescent Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16765-16775	9.5	143
73	Reversible Thermo-responsive Hydrogel Fabricated from Natural Biopolymer for the Improvement of Critical Limb Ischemia by Controlling Release of Stem Cells. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900967	10.1	10
72	Highly Stretchable, Adhesive, and Mechanical Zwitterionic Nanocomposite Hydrogel Biomimetic Skin. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40620-40628	9.5	57
71	Highly Efficient Thermo- and Sunlight-Driven Energy Storage for Thermo-Electric Energy Harvesting Using Sustainable Nanocellulose-Derived Carbon Aerogels Embedded Phase Change Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17523-17534	8.3	33
70	The fabrication of a highly efficient self-healing hydrogel from natural biopolymers loaded with exosomes for the synergistic promotion of severe wound healing. <i>Biomaterials Science</i> , <b>2019</b> , 8, 313-324	7.4	46
69	Preparation and recyclable catalysis performance of functional macroporous polyHIPE immobilized with gold nanoparticles on its surface. <i>RSC Advances</i> , <b>2018</b> , 8, 5912-5919	3.7	19
68	Surface glycopolymer-modified functional macroporous polyHIPE obtained by ATRP for the removal of boron in water. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2104-2112	3.6	11
67	Superhydrophobic three-dimensional porous ethyl cellulose absorbent with micro/nano-scale hierarchical structures for highly efficient removal of oily contaminants from water. <i>Carbohydrate Polymers</i> , <b>2018</b> , 191, 86-94	10.3	29
66	Ultraviolet light-, temperature- and pH-responsive fluorescent sensors based on cellulose nanocrystals. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3098-3107	4.9	26
65	Light- and pH-dually responsive dendrimer-star copolymer containing spiropyran groups: synthesis, self-assembly and controlled drug release. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3651-3661	4.9	26
64	Actively Targeted Magneto-thermally Responsive Nanocarriers/Doxorubicin for Thermochemotherapy of Hepatoma. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41107-41117	9.5	13
63	A hierarchical functionalized biodegradable PLA electrospun nanofibrous membrane with superhydrophobicity and antibacterial properties for oil/water separation. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17615-17624	3.6	20

62	UV light- and thermo-responsive supramolecular aggregates with tunable morphologies from the inclusion complexation of dendritic/linear polymers. <i>Chemical Communications</i> , <b>2017</b> , 53, 2463-2466	5.8	26
61	Triple stimuli-responsive supramolecular assemblies based on host-guest inclusion complexation between $\beta$ -cyclodextrin and azobenzene. <i>European Polymer Journal</i> , <b>2017</b> , 91, 396-407	5.2	25
60	Environmental-friendly and magnetic/silanized ethyl cellulose sponges as effective and recyclable oil-absorption materials. <i>Carbohydrate Polymers</i> , <b>2017</b> , 173, 422-430	10.3	45
59	UV light- and thermo-responsive hierarchical assemblies based on the inclusion complexation of $\beta$ -cyclodextrin and azobenzene. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 661-665	4.9	24
58	Functional micelles formed from glucose-, thermo- and pH-triple responsive copolymers for controlled release. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 4869-4877	4.9	12
57	A fluorescent nanoprobe based on cellulose nanocrystals with porphyrin pendants for selective quantitative trace detection of Hg <sup>2+</sup> . <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 10272-10280	3.6	14
56	Superhydrophobic/Superoleophilic and Reinforced Ethyl Cellulose Sponges for Oil/Water Separation: Synergistic Strategies of Cross-linking, Carbon Nanotube Composite, and Nanosilica Modification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29167-29176	9.5	76
55	A star-shaped amphiphilic block copolymer with dual responses: synthesis, crystallization, self-assembly, redox and LCST $\rightarrow$ UCST thermoresponsive transition. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 4901-4911	4.9	16
54	Synthesis and properties of CO <sub>2</sub> -responsive copolymer by the combination of reversible addition-fragmentation chain transfer polymerization and click chemistry. <i>Polymer Bulletin</i> , <b>2016</b> , 73, 2199-2210	2.4	6
53	Star-shaped and star-block polymers with a porphyrin core: from LCST $\rightarrow$ UCST thermoresponsive transition to tunable self-assembly behaviour and fluorescence performance. <i>RSC Advances</i> , <b>2016</b> , 6, 6802-6810	3.7	16
52	Amphiphilic graft copolymers with ethyl cellulose backbone: Synthesis, self-assembly and tunable temperature-CO <sub>2</sub> response. <i>Carbohydrate Polymers</i> , <b>2016</b> , 136, 216-23	10.3	19
51	Ethyl cellulose amphiphilic graft copolymers with LCST-UCST transition: Opposite self-assembly behavior, hydrophilic-hydrophobic surface and tunable crystalline morphologies. <i>Carbohydrate Polymers</i> , <b>2016</b> , 147, 261-271	10.3	22
50	Amphiphilic block copolymer terminated with pyrene group: from switchable CO <sub>2</sub> -temperature dual responses to tunable fluorescence. <i>RSC Advances</i> , <b>2015</b> , 5, 13145-13152	3.7	18
49	Thermo- and glucose-responsive micelles self-assembled from phenylborate ester-containing brush block copolymer for controlled release of insulin at physiological pH. <i>RSC Advances</i> , <b>2015</b> , 5, 80264-80268	3.7	11
48	Temperature- and redox-responsive magnetic complex micelles for controlled drug release. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 260-269	7.3	40
47	CO <sub>2</sub> - and thermo-responsive vesicles: from expansion $\rightarrow$ contraction transformation to vesicles-micelles transition. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 2457-2465	4.9	25
46	Synthesis, Self-Assembly, and Multi-Stimuli Responses of a Supramolecular Block Copolymer. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 1776	4.8	12
45	Ultraviolet light-breakable and tunable thermoresponsive amphiphilic block copolymer: from self-assembly, disassembly to re-self-assembly. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 4259	4.9	22

44	Formation and dissociation of glucose, pH and redox triply responsive micelles and controlled release of insulin. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 3968	4.9	28
43	Oligo(ethylene glycol) and quaternary ammonium-based block copolymer micelles: from tunable thermoresponse to dual salt response. <i>RSC Advances</i> , <b>2014</b> , 4, 38855	3.7	8
42	Preparation of POSS-poly( $\epsilon$ -caprolactone)- $\beta$ -cyclodextrin/Fe <sub>3</sub> O <sub>4</sub> hybrid magnetic micelles for removal of bisphenol A from water. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 353-61	10.3	16
41	Amphiphilic star-shaped poly( $\epsilon$ -caprolactone)-block-poly(L-lysine) copolymers with porphyrin core: Synthesis, self-assembly, and cell viability assay. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	6
40	Thermoresponse and light-induced reversible self-assembly/disassembly of supra-amphiphiles from azobenzene- and $\beta$ -cyclodextrin-containing copolymers. <i>Materials Letters</i> , <b>2014</b> , 134, 259-262	3.3	16
39	Synthesis, Self-Assembly, and Properties of Homoarm and Heteroarm Star-Shaped Inorganic/Organic Hybrid Polymers with a POSS Core. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 1580-1589	2.6	14
38	Star-shaped inorganic/organic hybrid polymers with polyhedral oligomeric silsesquioxane core: Synthesis, self-assembly and tunable thermoresponse. <i>Materials Letters</i> , <b>2013</b> , 111, 9-12	3.3	23
37	Tunable thermo-, pH- and light-responsive copolymer micelles. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3934	4.9	20
36	Environment-induced nanostructural dynamical-change based on supramolecular self-assembly of cyclodextrin and star-shaped poly(ethylene oxide) with polyhedral oligomeric silsesquioxane core. <i>Polymer</i> , <b>2013</b> , 54, 5374-5381	3.9	9
35	Temperature-induced phase-transitions of methoxyoligo(oxyethylene) styrene-based block copolymers in aqueous solution. <i>Soft Matter</i> , <b>2013</b> , 9, 8897	3.6	7
34	Supramolecular hydrogels from inclusion complexation of $\beta$ -cyclodextrin with densely grafted chains in micelles for controlled drug and protein release. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 6235-6244	7.3	30
33	Antibacterial vesicles by direct dissolution of a block copolymer in water. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 255-259	4.9	53
32	Surface modification of graphene oxide with thermoresponsive polymers via atom transfer radical polymerization: Transition from LCST to UCST. <i>Materials Letters</i> , <b>2013</b> , 107, 243-246	3.3	16
31	pH-responsive amphiphilic H-shaped supramolecular copolymer via the inclusion complexation between $\beta$ -cyclodextrin and adamantane. <i>Polymer Bulletin</i> , <b>2013</b> , 70, 2257-2267	2.4	3
30	Supramolecular micelles with dual temperature and redox responses for multi-controlled drug release. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 2658	4.9	30
29	Synthesis and self-assembly of double-hydrophilic pentablock copolymer with pH and temperature responses via sequential atom transfer radical polymerization. <i>Materials Letters</i> , <b>2012</b> , 67, 383-386	3.3	15
28	Amphiphilic ethyl cellulose brush polymers with mono and dual side chains: Facile synthesis, self-assembly, and tunable temperature-pH responsivities. <i>Polymer</i> , <b>2012</b> , 53, 956-966	3.9	53
27	Water-dispersible and biodegradable polymer micelles with good antibacterial efficacy. <i>Chemical Communications</i> , <b>2012</b> , 48, 6857-9	5.8	70

26	Supramolecular amphiphilic star-branched copolymer: from LCST to UCST transition to temperature-fluorescence responses. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24783		41
25	Synthesis, crystalline morphologies, self-assembly, and properties of H-shaped amphiphilic dually responsive terpolymers. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 2541-2552	2.5	13
24	Synthesis and self-assembly of pH-responsive chitosan graft copolymer by the combination of atom transfer radical polymerization and click chemistry. <i>Materials Letters</i> , <b>2011</b> , 65, 793-796	3.3	11
23	Synthesis, self-assembly, fluorescence, and thermosensitive properties of star-shaped amphiphilic copolymers with porphyrin core. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 2303-2313	2.5	41
22	Synthesis, characterization, and properties of tunable thermosensitive amphiphilic dendrimer-star copolymers with Y-shaped arms. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 4071-4080	2.5	21
21	Synthesis of pH- and temperature-responsive chitosan-graft-poly[2-(N,N-dimethylamino) ethyl methacrylate] copolymer and gold nanoparticle stabilization by its micelles. <i>Polymer International</i> , <b>2011</b> , 60, 194-201	3.3	36
20	Multifunctional hybrid magnetite nanoparticles with pH-responsivity, superparamagnetism and fluorescence. <i>Polymer International</i> , <b>2011</b> , 60, 1303-1308	3.3	12
19	Amphiphilic chitosan graft copolymer via combination of ROP, ATRP and click chemistry: Synthesis, self-assembly, thermosensitivity, fluorescence, and controlled drug release. <i>Polymer</i> , <b>2011</b> , 52, 658-666	3.9	51
18	Cylindrical PCL brushes on the surface of lanthanum hydroxide nanowires by ring-opening polymerization. <i>Science Bulletin</i> , <b>2010</b> , 55, 1376-1381		5
17	Synthesis and self-assembly of tunable thermosensitive chitosan amphiphilic copolymers by click chemistry. <i>Materials Letters</i> , <b>2010</b> , 64, 2663-2666	3.3	20
16	Synthesis of star-shaped poly( $\epsilon$ -caprolactone)-b-poly(L-lactide) copolymers: From star architectures to crystalline morphologies. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, 2650-2658	2.9	20
15	Synthesis of biodegradable pentaarmed star-block copolymers via an asymmetric BIS-TRIS core by combination of ROP and RAFT: From star architectures to double responsive micelles. <i>Polymer</i> , <b>2010</b> , 51, 1301-1310	3.9	52
14	Fe <sub>3</sub> O <sub>4</sub> @poly(2-hydroxyethyl methacrylate)-graft-poly( $\epsilon$ -caprolactone) magnetic nanoparticles with branched brush polymeric shell. <i>Polymer</i> , <b>2010</b> , 51, 2540-2547	3.9	60
13	Synthesis, characterization, and properties of amphiphilic chitosan copolymers with mixed side chains by click chemistry. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 3476-3486	2.5	23
12	Microwave-assisted synthesis of star-shaped poly( $\epsilon$ -caprolactone)-block-poly(L-lactide) copolymers and the crystalline morphologies. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 5063-5071	2.5	10
11	Flame-retardancy and anti-dripping effects of intumescent flame retardant incorporating montmorillonite on poly(lactic acid). <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 20, 1114-1120	3.2	91
10	Supramolecular polyseudorotaxanes formation between star-block copolymer and $\beta$ -cyclodextrin: From outer block to diblock inclusion complexation. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 2754-2762	2.5	16
9	Preparation and therapeutic efficacy of polysorbate-80-coated amphotericin B/PLA-b-PEG nanoparticles. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2009</b> , 20, 1369-80	3.5	51

8	Preparation of double-responsive SiO <sub>2</sub> -g-PDMAEMA nanoparticles via ATRP. <i>Materials Letters</i> , <b>2008</b> , 62, 1372-1375	3.3	86
7	Synthesis of cellulose-graft-poly(N,N-dimethylamino-2-ethyl methacrylate) copolymers via homogeneous ATRP and their aggregates in aqueous media. <i>Biomacromolecules</i> , <b>2008</b> , 9, 2615-20	6.9	176
6	Synthesis, characterization, and fluorescence of pyrene-containing eight-arm star-shaped dendrimer-like copolymer with pentaerythritol core. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 2788-2798	2.5	57
5	Syntheses, characterization, and in vitro degradation of ethyl cellulose-graft-poly(epsilon-caprolactone)-block-poly(L-lactide) copolymers by sequential ring-opening polymerization. <i>Biomacromolecules</i> , <b>2007</b> , 8, 1101-8	6.9	109
4	Synthesis, Characterization, Crystalline Morphologies, and Hydrophilicity of Brush Copolymers with Double Crystallizable Side Chains. <i>Macromolecules</i> , <b>2007</b> , 40, 9094-9102	5.5	89
3	Synthesis, characterization, and in vitro degradation of star-shaped P(Eaprolactone)-b-poly(L-lactide)-b-poly(D,L-lactide-co-glycolide) from hexakis [p-(hydroxymethyl)phenoxy]cyclotriphosphazene initiator. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 2310-2317	2.9	18
2	Synthesis, characterization, and controllable drug release of dendritic star-block copolymer by ring-opening polymerization and atom transfer radical polymerization. <i>Polymer</i> , <b>2007</b> , 48, 2585-2594	3.9	94
1	Synthesis, characterization, and thermal properties of dendrimer-star, block-comb copolymers by ring-opening polymerization and atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 6575-6586	2.5	37