Weizhong Yuan

List of Publications by Citations

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	Synthesis of cellulose-graft-poly(N,N-dimethylamino-2-ethyl methacrylate) copolymers via homogeneous ATRP and their aggregates in aqueous media. *Biomacromolecules*, **2008**, 9, 2615-20	6.9	176
96	Highly Stretchable and Transparent Double-Network Hydrogel Ionic Conductors as Flexible Thermal-Mechanical Dual Sensors and Electroluminescent Devices. *ACS Applied Materials & Interfaces*, **2019**, 11, 16765-16775	9.5	143
95	Syntheses, characterization, and in vitro degradation of ethyl cellulose-graft-poly(epsilon-caprolactone)-block-poly(L-lactide) copolymers by sequential ring-opening polymerization. *Biomacromolecules*, **2007**, 8, 1101-8	6.9	109
94	Synthesis, characterization, and controllable drug release of dendritic star-block copolymer by ring-opening polymerization and atom transfer radical polymerization. *Polymer*, **2007**, 48, 2585-2594	3.9	94
93	Flame-retardancy and anti-dripping effects of intumescent flame retardant incorporating montmorillonite on poly(lactic acid). *Polymers for Advanced Technologies*, **2009**, 20, 1114-1120	3.2	91
92	Synthesis, Characterization, Crystalline Morphologies, and Hydrophilicity of Brush Copolymers with Double Crystallizable Side Chains. *Macromolecules*, **2007**, 40, 9094-9102	5.5	89
91	Preparation of double-responsive SiO2-g-PDMAEMA nanoparticles via ATRP. *Materials Letters*, **2008**, 62, 1372-1375	3.3	86
90	Superhydrophobic/Superoleophilic and Reinforced Ethyl Cellulose Sponges for Oil/Water Separation: Synergistic Strategies of Cross-linking, Carbon Nanotube Composite, and Nanosilica Modification. *ACS Applied Materials & Interfaces*, **2017**, 9, 29167-29176	9.5	76
89	Water-dispersible and biodegradable polymer micelles with good antibacterial efficacy. *Chemical Communications*, **2012**, 48, 6857-9	5.8	70
88	Fe3O4@poly(2-hydroxyethyl methacrylate)-graft-poly(e-caprolactone) magnetic nanoparticles with branched brush polymeric shell. *Polymer*, **2010**, 51, 2540-2547	3.9	60
87	Highly Stretchable, Adhesive, and Mechanical Zwitterionic Nanocomposite Hydrogel Biomimetic Skin. *ACS Applied Materials & Interfaces*, **2019**, 11, 40620-40628	9.5	57
86	Synthesis, characterization, and fluorescence of pyrene-containing eight-arm star-shaped dendrimer-like copolymer with pentaerythritol core. *Journal of Polymer Science Part A*, **2008**, 46, 2788-2798	2.5	57
85	Adhesive, Stretchable, and Transparent Organohydrogels for Antifreezing, Antidrying, and Sensitive Ionic Skins. *ACS Applied Materials & Interfaces*, **2021**, 13, 1474-1485	9.5	57
84	Amphiphilic ethyl cellulose brush polymers with mono and dual side chains: Facile synthesis, self-assembly, and tunable temperature-pH responsivities. *Polymer*, **2012**, 53, 956-966	3.9	53
83	Antibacterial vesicles by direct dissolution of a block copolymer in water. *Polymer Chemistry*, **2013**, 4, 255-259	4.9	53
82	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. *Polymer*, **2010**, 51, 1301-1310	3.9	52
81	Preparation and therapeutic efficacy of polysorbate-80-coated amphotericin B/PLA-b-PEG nanoparticles. *Journal of Biomaterials Science, Polymer Edition*, **2009**, 20, 1369-80	3.5	51

80	Amphiphilic chitosan graft copolymer via combination of ROP, ATRP and click chemistry: Synthesis, self-assembly, thermosensitivity, fluorescence, and controlled drug release. *Polymer*, **2011**, 52, 658-666	3.9	51
79	The fabrication of a highly efficient self-healing hydrogel from natural biopolymers loaded with exosomes for the synergistic promotion of severe wound healing. *Biomaterials Science*, **2019**, 8, 313-324	7.4	46
78	Environmental-friendly and magnetic/silanized ethyl cellulose sponges as effective and recyclable oil-absorption materials. *Carbohydrate Polymers*, **2017**, 173, 422-430	10.3	45
77	Supramolecular amphiphilic star-branched copolymer: from LCST–UCST transition to temperature–fluorescence responses. *Journal of Materials Chemistry*, **2012**, 22, 24783		41
76	Synthesis, self-assembly, fluorescence, and thermosensitive properties of star-shaped amphiphilic copolymers with porphyrin core. *Journal of Polymer Science Part A*, **2011**, 49, 2303-2313	2.5	41
75	Temperature- and redox-responsive magnetic complex micelles for controlled drug release. *Journal of Materials Chemistry B*, **2015**, 3, 260-269	7.3	40
74	Synthesis, characterization, and thermal properties of dendrimer-star, block-comb copolymers by ring-opening polymerization and atom transfer radical polymerization. *Journal of Polymer Science Part A*, **2006**, 44, 6575-6586	2.5	37
73	Self-healing, anti-freezing, adhesive and remoldable hydrogel sensor with ion-liquid metal dual conductivity for biomimetic skin. *Composites Science and Technology*, **2021**, 203, 108608	8.6	37
72	Synthesis of pH- and temperature-responsive chitosan-graft-poly[2-(N,N-dimethylamino) ethyl methacrylate] copolymer and gold nanoparticle stabilization by its micelles. *Polymer International*, **2011**, 60, 194-201	3.3	36
71	Highly Efficient Thermo- and Sunlight-Driven Energy Storage for Thermo-Electric Energy Harvesting Using Sustainable Nanocellulose-Derived Carbon Aerogels Embedded Phase Change Materials. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 17523-17534	8.3	33
70	NIR/Thermoresponsive Injectable Self-Healing Hydrogels Containing Polydopamine Nanoparticles for Efficient Synergistic Cancer Thermochemotherapy. *ACS Applied Materials & Interfaces*, **2020**, 12, 9118-9131	9.5	30
69	Supramolecular hydrogels from inclusion complexation of β-cyclodextrin with densely grafted chains in micelles for controlled drug and protein release. *Journal of Materials Chemistry B*, **2013**, 1, 6235-6244	7.3	30
68	Supramolecular micelles with dual temperature and redox responses for multi-controlled drug release. *Polymer Chemistry*, **2013**, 4, 2658	4.9	30
67	Superhydrophobic three-dimensional porous ethyl cellulose absorbent with micro/nano-scale hierarchical structures for highly efficient removal of oily contaminants from water. *Carbohydrate Polymers*, **2018**, 191, 86-94	10.3	29
66	Adhesive, stretchable and antibacterial hydrogel with external/self-power for flexible sensitive sensor used as human motion detection. *Composites Part B: Engineering*, **2021**, 220, 108984	10	29
65	Formation–dissociation of glucose, pH and redox triply responsive micelles and controlled release of insulin. *Polymer Chemistry*, **2014**, 5, 3968	4.9	28
64	UV light- and thermo-responsive supramolecular aggregates with tunable morphologies from the inclusion complexation of dendritic/linear polymers. *Chemical Communications*, **2017**, 53, 2463-2466	5.8	26
63	Multifunctional magnetic superhydrophobic carbonaceous aerogel with micro/nano-scale hierarchical structures for environmental remediation and energy storage. *Applied Surface Science*, **2019**, 480, 851-860	6.7	26

62	Ultraviolet light-, temperature- and pH-responsive fluorescent sensors based on cellulose nanocrystals. *Polymer Chemistry*, **2018**, 9, 3098-3107	4.9	26
61	Light- and pH-dually responsive dendrimer-star copolymer containing spiropyran groups: synthesis, self-assembly and controlled drug release. *Polymer Chemistry*, **2018**, 9, 3651-3661	4.9	26
60	Triple stimuli-responsive supramolecular assemblies based on host-guest inclusion complexation between Ecyclodextrin and azobenzene. *European Polymer Journal*, **2017**, 91, 396-407	5.2	25
59	CO2- and thermo-responsive vesicles: from expansionontraction transformation to vesicles-micelles transition. *Polymer Chemistry*, **2015**, 6, 2457-2465	4.9	25
58	UV light- and thermo-responsive hierarchical assemblies based on the inclusion complexation of Ecyclodextrin and azobenzene. *Polymer Chemistry*, **2017**, 8, 661-665	4.9	24
57	Star-shaped inorganicrganic hybrid polymers with polyhedral oligomeric silsesquioxane core: Synthesis, self-assembly and tunable thermoresponse. *Materials Letters*, **2013**, 111, 9-12	3.3	23
56	Synthesis, characterization, and properties of amphiphilic chitosan copolymers with mixed side chains by click chemistry. *Journal of Polymer Science Part A*, **2010**, 48, 3476-3486	2.5	23
55	Ultraviolet light-breakable and tunable thermoresponsive amphiphilic block copolymer: from self-assembly, disassembly to re-self-assembly. *Polymer Chemistry*, **2014**, 5, 4259	4.9	22
54	Ethyl cellulose amphiphilic graft copolymers with LCST-UCST transition: Opposite self-assembly behavior, hydrophilic-hydrophobic surface and tunable crystalline morphologies. *Carbohydrate Polymers*, **2016**, 147, 261-271	10.3	22
53	Synthesis, characterization, and properties of tunable thermosensitive amphiphilic dendrimer-star copolymers with Y-shaped arms. *Journal of Polymer Science Part A*, **2011**, 49, 4071-4080	2.5	21
52	Hypoxia-responsive micelles self-assembled from amphiphilic block copolymers for the controlled release of anticancer drugs. *Journal of Materials Chemistry B*, **2019**, 7, 286-295	7.3	20
51	Tunable thermo-, pH- and light-responsive copolymer micelles. *Polymer Chemistry*, **2013**, 4, 3934	4.9	20
50	Synthesis and self-assembly of tunable thermosensitive chitosan amphiphilic copolymers by click chemistry. *Materials Letters*, **2010**, 64, 2663-2666	3.3	20
49	Synthesis of star-shaped poly(Ecaprolactone)-b-poly(L-lactide) copolymers: From star architectures to crystalline morphologies. *Journal of Applied Polymer Science*, **2010**, 118, 2650-2658	2.9	20
48	A hierarchical functionalized biodegradable PLA electrospun nanofibrous membrane with superhydrophobicity and antibacterial properties for oil/water separation. *New Journal of Chemistry*, **2018**, 42, 17615-17624	3.6	20
47	A superhydrophobic poly(lactic acid) electrospun nanofibrous membrane surface-functionalized with TiO2 nanoparticles and methyltrichlorosilane for oil/water separation and dye adsorption. *New Journal of Chemistry*, **2019**, 43, 15823-15831	3.6	19
46	Preparation and recyclable catalysis performance of functional macroporous polyHIPE immobilized with gold nanoparticles on its surface.. *RSC Advances*, **2018**, 8, 5912-5919	3.7	19
45	Amphiphilic graft copolymers with ethyl cellulose backbone: Synthesis, self-assembly and tunable temperature-CO2 response. *Carbohydrate Polymers*, **2016**, 136, 216-23	10.3	19

44	Amphiphilic block copolymer terminated with pyrene group: from switchable CO2-temperature dual responses to tunable fluorescence. *RSC Advances*, **2015**, 5, 13145-13152	3.7	18
43	Coordination of injectable self-healing hydrogel with Mn-Zn ferrite@mesoporous silica nanospheres for tumor MR imaging and efficient synergistic magnetothermal-chemo-chemodynamic therapy. *Chemical Engineering Journal*, **2020**, 401, 126100	14.7	18
42	Synthesis, characterization, and in vitro degradation of star-shaped P(ε-caprolactone)-b-poly(L-lactide)-b-poly(D,L-lactide-co-glycolide) from hexakis [p-(hydroxymethyl)phenoxy]cyclotriphosphazene initiator. *Journal of Applied Polymer Science*, **2007**, 104, 2310-2317	2.9	18
41	Smart Nanocomposite Nonwoven Wearable Fabrics Embedding Phase Change Materials for Highly Efficient Energy Conversion-Storage and Use as a Stretchable Conductor. *ACS Applied Materials & Interfaces*, **2021**, 13, 4508-4518	9.5	17
40	A star-shaped amphiphilic block copolymer with dual responses: synthesis, crystallization, self-assembly, redox and LCST□UCST thermoresponsive transition. *Polymer Chemistry*, **2016**, 7, 4901-4911	4.9	16
39	Star-shaped and star-block polymers with a porphyrin core: from LCST□UCST thermoresponsive transition to tunable self-assembly behaviour and fluorescence performance. *RSC Advances*, **2016**, 6, 6802-6810	3.7	16
38	Preparation of POSS-poly(e-caprolactone)-β-cyclodextrin/Fe3O4 hybrid magnetic micelles for removal of bisphenol A from water. *Carbohydrate Polymers*, **2014**, 113, 353-61	10.3	16
37	Surface modification of graphene oxide with thermoresponsive polymers via atom transfer radical polymerization: Transition from LCST to UCST. *Materials Letters*, **2013**, 107, 243-246	3.3	16
36	Thermoresponse and light-induced reversible self-assembly/disassembly of supra-amphiphiles from azobenzene- and β-cyclodextrin-containing copolymers. *Materials Letters*, **2014**, 134, 259-262	3.3	16
35	Supramolecular polyseudorotaxanes formation between star-block copolymer and β-cyclodextrin: From outer block to diblock inclusion complexation. *Journal of Polymer Science Part A*, **2009**, 47, 2754-2762	2.5	16
34	Synthesis and self-assembly of double-hydrophilic pentablock copolymer with pH and temperature responses via sequential atom transfer radical polymerization. *Materials Letters*, **2012**, 67, 383-386	3.3	15
33	Synthesis, Self-Assembly, and Properties of Homoarm and Heteroarm Star-Shaped Inorganic□Organic Hybrid Polymers with a POSS Core. *Macromolecular Chemistry and Physics*, **2013**, 214, 1580-1589	2.6	14
32	A fluorescent nanoprobe based on cellulose nanocrystals with porphyrin pendants for selective quantitative trace detection of Hg2+. *New Journal of Chemistry*, **2017**, 41, 10272-10280	3.6	14
31	Synthesis, crystalline morphologies, self-assembly, and properties of H-shaped amphiphilic dually responsive terpolymers. *Journal of Polymer Science Part A*, **2012**, 50, 2541-2552	2.5	13
30	Actively Targeted Magnetothermally Responsive Nanocarriers/Doxorubicin for Thermochemotherapy of Hepatoma. *ACS Applied Materials & Interfaces*, **2018**, 10, 41107-41117	9.5	13
29	Synthesis, Self-Assembly, and Multi-Stimuli Responses of a Supramolecular Block Copolymer. *Macromolecular Rapid Communications*, **2014**, 35, 1776	4.8	12
28	Functional micelles formed from glucose-, thermo- and pH-triple responsive copolymers for controlled release. *Polymer Chemistry*, **2017**, 8, 4869-4877	4.9	12
27	Multifunctional hybrid magnetite nanoparticles with pH-responsivity, superparamagnetism and fluorescence. *Polymer International*, **2011**, 60, 1303-1308	3.3	12

26	Highly adhesive and dual-crosslinking hydrogel via one-pot self-initiated polymerization for efficient antibacterial, antifouling and full-thickness wound healing. *Composites Part B: Engineering*, **2022**, 230, 109525	10	12
25	Thermo- and glucose-responsive micelles self-assembled from phenylborate ester-containing brush block copolymer for controlled release of insulin at physiological pH. *RSC Advances*, **2015**, 5, 80264-80268	3.7	11
24	Light-enhanced hypoxia-responsive and azobenzene cleavage-triggered size-shrinkable micelles for synergistic photodynamic therapy and chemotherapy. *Biomaterials Science*, **2020**, 8, 3348-3358	7.4	11
23	Surface glycopolymer-modified functional macroporous polyHIPE obtained by ATRP for the removal of boron in water. *New Journal of Chemistry*, **2018**, 42, 2104-2112	3.6	11
22	Synthesis and self-assembly of pH-responsive chitosan graft copolymer by the combination of atom transfer radical polymerization and click chemistry. *Materials Letters*, **2011**, 65, 793-796	3.3	11
21	Reversible Thermoresponsive Hydrogel Fabricated from Natural Biopolymer for the Improvement of Critical Limb Ischemia by Controlling Release of Stem Cells. *Advanced Healthcare Materials*, **2019**, 8, e1900967	10.1	10
20	Microwave-assisted synthesis of star-shaped poly(ε-caprolactone)-block-poly(L-lactide) copolymers and the crystalline morphologies. *Journal of Polymer Science Part A*, **2010**, 48, 5063-5071	2.5	10
19	Environment-induced nanostructural dynamical-change based on supramolecular self-assembly of cyclodextrin and star-shaped poly(ethylene oxide) with polyhedral oligomeric silsesquioxane core. *Polymer*, **2013**, 54, 5374-5381	3.9	9
18	Oligo(ethylene glycol) and quaternary ammonium-based block copolymer micelles: from tunable thermoresponse to dual salt response. *RSC Advances*, **2014**, 4, 38855	3.7	8
17	Temperature-induced phase-transitions of methoxyoligo(oxyethylene) styrene-based block copolymers in aqueous solution. *Soft Matter*, **2013**, 9, 8897	3.6	7
16	Flexible, stimuli-responsive and self-cleaning phase change fiber for thermal energy storage and smart textiles. *Composites Part B: Engineering*, **2022**, 228, 109431	10	7
15	Synthesis and properties of CO2-responsive copolymer by the combination of reversible addition-fragmentation chain transfer polymerization and click chemistry. *Polymer Bulletin*, **2016**, 73, 2199-2210	2.4	6
14	Amphiphilic star-shaped poly(ε-caprolactone)-block-poly(l-lysine) copolymers with porphyrin core: Synthesis, self-assembly, and cell viability assay. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	6
13	Fabrication of thermoresponsive magnetic micelles from amphiphilic poly(phenyl isocyanide) and Fe3O4 nanoparticles for controlled drug release and synergistic thermochemotherapy. *Polymer Chemistry*, **2021**, 12, 2132-2140	4.9	6
12	Cylindrical PCL brushes on the surface of lanthanum hydroxide nanowires by ring-opening polymerization. *Science Bulletin*, **2010**, 55, 1376-1381		5
11	Highly Stretchable, Adhesive Ionic Liquid-Containing Nanocomposite Hydrogel for Self-Powered Multifunctional Strain Sensors with Temperature Tolerance. *ACS Applied Materials & Interfaces*, **2021**,	9.5	5
10	Fabrication of glucose-responsive and biodegradable copolymer membrane for controlled release of insulin at physiological pH. *New Journal of Chemistry*, **2019**, 43, 7822-7830	3.6	3
9	pH-responsive amphiphilic H-shaped supramolecular copolymer via the inclusion complexation between β-cyclodextrin and adamantane. *Polymer Bulletin*, **2013**, 70, 2257-2267	2.4	3

8	Thermo- and redox-responsive dumbbell-shaped copolymers: from structure design to the LCST–UCST transition. *Polymer Chemistry*, **2020**, 11, 830-842	4.9	3
7	Amphiphilic copolymers with light-pH-temperature triple stimuli-responses: Preparation, self-assembly and controlled drug release. *Materials Letters*, **2021**, 284, 129008	3.3	3
6	Highly adhesive, self-healing, anti-freezing and anti-drying organohydrogel with self-power and mechanoluminescence for multifunctional flexible sensor. *Composites Part A: Applied Science and Manufacturing*, **2022**, 154, 106806	8.4	2
5	Hypoxia/Temperature/pH Triple Stimuli-Responsive Block Copolymers: Synthesis, Self-Assembly, and Controlled Drug Release. *Macromolecular Materials and Engineering*, **2021**, 306, 2100073	3.9	2
4	Flexible core-sheath thermochromic phase change fibers for temperature management and electrical/solar energy harvesting. *Composites Science and Technology*, **2022**, 226, 109538	8.6	2
3	Injectable and self-healing nanocomposite hydrogel loading needle-like nano-hydroxyapatite and graphene oxide for synergistic tumour proliferation inhibition and photothermal therapy. *Journal of Materials Chemistry B*, **2021**, 9, 9734-9743	7.3	1
2	Hypoxia and temperature dual-stimuli-responsive random copolymers: facile synthesis, self-assembly and controlled release of drug. *New Journal of Chemistry*, **2020**, 44, 10229-10238	3.6	1
1	Reduction and temperature dually-triggered size-shrinkage and drug release of micelles for synergistic photothermal-chemotherapy of cancer. *European Polymer Journal*, **2021**, 154, 110535	5.2	1