

Wei-Dong He

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Multiple Morphologies of PAA- <i>b</i> -PSt Assemblies throughout RAFT Dispersion Polymerization of Styrene with PAA Macro-CTA. <i>Macromolecules</i> , 2011, 44, 3358-3365.	4.8	213
2	Temperature-Responsive Smart Nanoreactors: Poly(<i>N</i> -isopropylacrylamide)-Coated Au@Mesoporous-SiO ₂ Hollow Nanospheres. <i>Langmuir</i> , 2012, 28, 13452-13458.	3.5	84
3	Formation Kinetics and Scaling of Defect-Free Hyperbranched Polystyrene Chains with Uniform Subchains Prepared from Seesaw-Type Macromonomers. <i>Macromolecules</i> , 2011, 44, 8195-8206.	4.8	81
4	Formation of Monodisperse Polyacrylamide Particles by Radiation-Induced Dispersion Polymerization: Particle Size and Size Distribution. <i>Journal of Colloid and Interface Science</i> , 2002, 253, 279-284.	9.4	62
5	Click-Long Seesaw-Type A ^{1/4} B ^{1/4} A Chains Together into Huge Defect-Free Hyperbranched Polymer Chains with Uniform Subchains. <i>Macromolecules</i> , 2011, 44, 6233-6236.	4.8	60
6	Shell-Cross-Linked Micelles from PNIPAM-(PLL) ₂ -Y-Shaped Miktoarm Star Copolymer as Drug Carriers. <i>Biomacromolecules</i> , 2010, 11, 1882-1890.	5.4	59
7	Preparation of block-brush PEG- <i>b</i> -P(NIPAM- <i>g</i> -DMAEMA) and its dual stimulus-response. <i>Polymer</i> , 2010, 51, 3039-3046.	3.8	58
8	Reducible polyethylenimine hydrogels with disulfide crosslinkers prepared by michael addition chemistry as drug delivery carriers: Synthesis, properties, and <i>in vitro</i> release. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4074-4082.	2.3	53
9	Interchain Hydrogen-Bonding-Induced Association of Poly(acrylic acid)- <i>g</i> -poly(ethylene) Tj ETQq1 1 0.784314 rgBT/Overloc	4.8	53
10	Mushroom-Like rGO/PAM Hybrid Cryogels with Efficient Solar-Heating Water Evaporation. <i>ACS Applied Energy Materials</i> , 2019, 2, 7554-7563.	5.1	52
11	Formation mechanism of silicone rubber particles with core-shell structure by seeded emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 1996, 61, 383-388.	2.6	49
12	Highly porous polymer cryogel based tribopositive material for high performance triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 68, 104294.	16.0	47
13	Synthesis and micellization of PSt- <i>b</i> -PNIPAM- <i>b</i> -PDMAEMA heteroarm star polymer with double thermoresponsibility. <i>Journal of Polymer Science Part A</i> , 2009, 47, 786-796.	2.3	43
14	Thermal and pH-sensitive gold nanoparticles from H-shaped block copolymers of (PNIPAM/PDMAEMA)- <i>b</i> -PEG- <i>b</i> -(PNIPAM/PDMAEMA). <i>Journal of Polymer Science Part A</i> , 2010, 48, 5018-5029.	4.8	42
15	In-Situ X-ray Deformation Study of Fluorinated Multiwalled Carbon Nanotube and Fluorinated Ethylene-Propylene Nanocomposite Fibers. <i>Macromolecules</i> , 2006, 39, 5427-5437.	4.8	40
16	Synthesis of PEG- <i>b</i> -PNIPAM- <i>b</i> -PLys heteroarm star polymer and its variation of thermoresponsibility after the formation of polyelectrolyte complex micelles with PAA. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1450-1462.	2.3	40
17	Study on controlled radical alternating copolymerization of styrene with maleic anhydride under UV irradiation. <i>Polymer International</i> , 2003, 52, 98-103.	3.1	37
18	Preparation of multi-walled carbon nanotubes grafted with synthetic poly(L-lysine) through surface-initiated ring-opening polymerization. <i>Polymer</i> , 2007, 48, 4352-4360.	3.8	37

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19	How Does a Hyperbranched Chain Pass through a Nanopore?. <i>Macromolecules</i> , 2012, 45, 7583-7589.	4.8	37
20	Preparation of poly(styrene- <i>b</i> - <i>N</i> -isopropylacrylamide) micelles surface-linked with gold nanoparticles and thermo-responsive ultraviolet-visible absorbance. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5156-5163.	2.3	36
21	Reducibly degradable hydrogels of PNIPAM and PDMAEMA: Synthesis, stimulus-response and drug release. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3604-3612.	2.3	36
22	Synthesis of poly(4-vinylpyridine) and block copoly (4-vinylpyridine- <i>b</i> -styrene) by atom transfer radical polymerization using 5,5,7,12,12,14-hexamethyl-1,4,8,11-tetraazamacrocyclotetradecane as ligand. <i>European Polymer Journal</i> , 2003, 39, 2029-2033.	5.4	33
23	Soapless emulsion polymerization of butyl methacrylate through microwave heating. <i>Journal of Applied Polymer Science</i> , 2001, 80, 2455-2459.	2.6	32
24	Study of the Preparation of Silicone Rubber Particles with Core-Shell Structure by Seeded Emulsion Polymerization. <i>Polymer International</i> , 1996, 39, 31-36.	3.1	31
25	Influence of reaction between second monomer and vinyl group of seed polysiloxane on seeded emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2001, 80, 2752-2758.	2.6	26
26	Reversible thermo-responsive sieving matrix for oligonucleotide separation. <i>Lab on A Chip</i> , 2006, 6, 526.	6.0	25
27	Synthesis of twin-tail tadpole-shaped hydrophilic copolymers and their thermo-responsive behavior. <i>Journal of Polymer Science Part A</i> , 2009, 47, 7066-7077.	2.3	25
28	RAFT cryopolymerizations of <i>N,N</i> -dimethylacrylamide and <i>N</i> -isopropylacrylamide in moderately frozen aqueous solution. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6863-6872.	2.3	24
29	Fabricating ternary hydrogels of P(AM-co-DMAEMA)/PVA/ β -CD based on multiple physical crosslinkage. <i>Polymer</i> , 2017, 119, 152-159.	3.8	24
30	How the Crosslinking Agent Influences the Thermal Stability of RTV Phenyl Silicone Rubber. <i>Materials</i> , 2019, 12, 88.	2.9	24
31	Hybrid cryogels composed of P(NIPAM-co-AMPS) and metal nanoparticles for rapid reduction of p-nitrophenol. <i>Polymer</i> , 2020, 193, 122352.	3.8	24
32	Controlling the formation of long-subchain hyperbranched polystyrene from seesaw-type AB ₂ macromonomers: Solvent polarity and solubility. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3214-3224.	2.3	23
33	RAFT cryopolymerizations of acrylamides and acrylates in dioxane at $\sim 5^{\circ}\text{C}$. <i>Polymer</i> , 2010, 51, 110-114.	3.8	22
34	Highly porous and thermally stable tribopositive hybrid bimetallic cryogel to boost up the performance of triboelectric nanogenerators. <i>International Journal of Energy Research</i> , 2020, 44, 8442-8454.	4.5	22
35	Synthesis and characterization of submicron PMMA particles containing rare earth ions on the surface. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1124-1131.	2.6	21
36	Realizing the Capability of Negatively Charged Graphene Oxide in the Presence of Conducting Polyaniline for Performance Enhancement of Tribopositive Material of Triboelectric Nanogenerator. <i>Advanced Electronic Materials</i> , 2020, 6, 2000034.	5.1	21

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37	Highly porous cryogels loaded with bimetallic nanoparticles as an efficient antimicrobial agent and catalyst for rapid reduction of water-soluble organic contaminants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106510.	6.7	21
38	Dual thermo- and pH-sensitive network-grafted hydrogels formed by macrocrosslinker as drug delivery system. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2155-2164.	2.3	20
39	Bactericidal Dendritic Polycation Cloaked with Stealth Material via Lipase-Sensitive Intersegment Acquires Neutral Surface Charge without Losing Membrane-Disruptive Activity. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27602-27607.	8.0	20
40	Macroporous Oil-Sorbents with a High Absorption Capacity and High-Temperature Tolerance Prepared through Cryo-Polymerization. <i>Polymers</i> , 2019, 11, 1620.	4.5	19
41	Formation of long sub-chain hyperbranched poly(methyl methacrylate) based on inhibited self-cyclization of seesaw macromonomers. <i>Polymer Chemistry</i> , 2016, 7, 4842-4851.	3.9	18
42	Formation of monodisperse polyacrylamide particles by radiation-induced dispersion polymerization. I. Synthesis and polymerization kinetics. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2567-2573.	2.6	17
43	Preparation and characterization of core-shell polystyrene-polydimethylsiloxane particles by seeded polymerization. <i>Polymer International</i> , 2004, 53, 1033-1039.	3.1	17
44	Novel method for the preparation of core-shell nanoparticles with movable Ag core and polystyrene loop shell. <i>Journal of Solid State Chemistry</i> , 2006, 179, 1253-1258.	2.9	17
45	Fabrication of CdS nanorods in inverse microemulsion using HEC as a template by a convenient I^3 -irradiation technique. <i>Journal of Crystal Growth</i> , 2006, 290, 592-596.	1.5	17
46	Preparation of polypyrrole-graft-poly(<i>N</i> -isopropylacrylamide)/silver nanocomposites from pyrrolyl-capped macromonomer by AgNO_3 and their stimuli responsibility of light emission. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6950-6960.	2.3	17
47	Rapid UV-radiation synthesis of polyacrylate cryogel oil-sorbents with adaptable structure and performance. <i>Environmental Research</i> , 2020, 187, 109488.	7.5	17
48	Fast separation of single-stranded oligonucleotides by capillary electrophoresis using OliGreen [®] as fluorescence inducing agent. <i>Electrophoresis</i> , 2005, 26, 4449-4455.	2.4	16
49	Interfacial-initiated seeded emulsion polymerization: preparation of polystyrene/poly(methacrylic) Tj ETQq1 1 0.784314 rgBT /Overloc	3.1	16
50	Novel One-Step Route for Preparing Amphiphilic Block Copolymers of Styrene and <i>N</i> -Isopropylacrylamide in a Microemulsion. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1229-1232.	3.9	16
51	A versatile platform of poly(acrylic acid) cryogel for highly efficient photothermal water evaporation. <i>Materials Advances</i> , 2021, 2, 3088-3098.	5.4	16
52	New approach to hybrid materials: Functional sub-micrometer core/shell particles coated with NiS clusters by I^3 -irradiation. <i>Polymer</i> , 2005, 46, 8366-8372.	3.8	13
53	Multiple morphological micelles formed from the self-assembly of poly(styrene)- <i>b</i> -poly(4-vinylpyridine) containing cobalt dodecyl benzene sulfonate. <i>European Polymer Journal</i> , 2005, 41, 2088-2096.	5.4	13
54	Synthesis, morphology, component distribution, and mechanical properties of nitrocellulose/gradient poly(ethylene glycol dimethacrylate) semi-IPN material. <i>Journal of Applied Polymer Science</i> , 2007, 105, 510-514.	2.6	13

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55	Comb-Type Grafted Hydrogels of PNIPAM and PDMAEMA with Reversed Network-Graft Architectures from Controlled Radical Polymerizations. <i>Polymers</i> , 2016, 8, 38.	4.5	13
56	Radiation-induced synthesis of hydrophobic cryogels with rapid and high absorption of organic solvents and oils. <i>Microporous and Mesoporous Materials</i> , 2022, 330, 111486.	4.4	13
57	PAAO cryogels from amidoximated P(acrylic acid-co-acrylonitrile) for the adsorption of lead ion. <i>European Polymer Journal</i> , 2022, 171, 111192.	5.4	13
58	Zwitterionic shell-crosslinked micelles from block-comb copolymer of P(<i>t</i> -BA)- <i>b</i> -P(PEGMEMA- <i>b</i> -DMAEMA). <i>Journal of Polymer Science Part A</i> , 2011, 49, 2783-2789.	2.3	12
59	Hollow mesoporous silica nanoparticles modified with coumarin-containing copolymer for photo-modulated loading and releasing guest molecule. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3791-3799.	2.3	12
60	Janus long-chain hyperbranched copolymers of PSt and POEGMA from a self-assembly mediated click reaction. <i>Polymer Chemistry</i> , 2016, 7, 2476-2485.	3.9	11
61	Solvent replacement to thermo-responsive nanoparticles from long-subchain hyperbranched PSt grafted with PNIPAM for encapsulation. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2142-2149.	2.3	10
62	Long-subchain hyperbranched poly(aminoethyl acrylate): A potent antimicrobial polymer with low hemolytic toxicity. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3462-3469.	2.3	10
63	Gold Nanoparticles Grafted with PLL- <i>b</i> -PNIPAM: Interplay on Thermal/pH Dual-Response and Optical Properties. <i>Molecules</i> , 2018, 23, 921.	3.8	10
64	Designing polymer matrix for microchip-based double-stranded DNA capillary electrophoresis. <i>Journal of Chromatography A</i> , 2006, 1117, 219-227.	3.7	8
65	Silver nanorods using HEC as a template by γ -irradiation technique and absorption dose that changed their nanosize and morphology. <i>Materials Letters</i> , 2007, 61, 1801-1804.	2.6	8
66	Formation of Hyperbranched Amphiphilic Terpolymers and Unimolecular Micelles in One-Pot Copolymerization. <i>Macromolecules</i> , 2015, 48, 7327-7334.	4.8	8
67	FORMATION OF MONODISPERSE POLYACRYLAMIDE PARTICLES BY DISPERSION POLYMERIZATION. I. SYNTHESIS AND POLYMERIZATION KINETICS. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2002, 39, 545-556.	2.2	7
68	Novel one-step route for synthesizing sub-micrometer PSt hollow spheres via redox interfacial-initiated method in inversed emulsion. <i>Materials Letters</i> , 2007, 61, 2818-2821.	2.6	7
69	Reduced matrix viscosity in DNA sequencing by CE and microchip electrophoresis using a novel thermo-responsive copolymer. <i>Electrophoresis</i> , 2009, 30, 2488-2498.	2.4	7
70	Tumor extracellular pH-sensitive polymeric nanocarrier-grafted platinum(IV) prodrugs for improved intracellular delivery and cytosolic reductive-triggered release. <i>Polymer Chemistry</i> , 2020, 11, 2212-2221.	3.9	7
71	Anionic synthesis of telechelic polyacetylene. <i>Synthetic Metals</i> , 2001, 122, 263-266.	3.9	6
72	Preparation of narrowly distributed nanoparticles of poly(<i>n</i> -butyl methacrylate-co-vinyl pyrrolidone) through microemulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2004, 92, 2334-2340.	2.6	6

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73	Scale-up development of high-performance polymer matrix for DNA sequencing analysis. <i>Electrophoresis</i> , 2006, 27, 3712-3723.	2.4	6
74	A chemistry/physics pathway with nanofibrous scaffolds for gene delivery. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12379.	2.8	6
75	Efficient and economical synthesis of dendrimer-like polystyrene with long subchains through arm-first divergent strategy. <i>Polymer Chemistry</i> , 2014, 5, 4649-4657.	3.9	6
76	Influence of crosslinking degree of silicone rubber particles on properties of epoxy resin. <i>Journal of Applied Polymer Science</i> , 1998, 69, 619-625.	2.6	5
77	Synthesis of long- ϵ -subchain hyperbranched PCL through SCV-ATRP of macroinimers with (meth)acrylate group. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3475-3480.	2.3	5
78	Association, emulsifying, and solubilization properties of amphiphilic hyperbranched poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	2.3	5
79	Novel fluorescent hyperbranched aliphatic polyestertriazole as efficient probe for detecting Hg ²⁺ in water. <i>Reactive and Functional Polymers</i> , 2018, 126, 87-94.	4.1	5
80	Ring-opening cryo-polymerization of N-carboxy- β -amino acid anhydride of β -benzyl L-Glutamate. <i>Polymer</i> , 2018, 151, 1-5.	3.8	5
81	Kinetically controlled cyclization in step-growth polymerization of AB ₂ macromonomer: Role of molar mass of macromonomer. <i>Polymer</i> , 2020, 195, 122446.	3.8	5
82	Amphiphilic particles prepared by grafting acrylamide onto the surface of styrene-rich copolymer/2-hydroxyethyl acrylate rich copolymer particles. <i>Colloid and Polymer Science</i> , 2002, 280, 865-872.	2.1	4
83	Long-subchain Janus-dendritic copolymers from locally confined click reaction and generation-dependent micro-phase separation. <i>Polymer Chemistry</i> , 2017, 8, 3889-3900.	3.9	4
84	Transpiration-prompted Photocatalytic Degradation of Dye Pollutant with AuNPs/PANI Based Cryogels. <i>Chinese Journal of Polymer Science (English Edition)</i> , 0, , .	3.8	4
85	pH-Responsive Self-assembled Nanoparticles of Simulated P(AA-co-SA)-g-PEG for Drug Release. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 886-891.	2.2	3
86	Self-assembly behavior of amphiphilic linear-block-dendritic copolymers with long subchains: Dependences on dendron generation and mixing dynamics. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1446-1456.	2.3	3
87	Magnetic properties of polystyrene-b-poly(2-hydroxyethyl methacrylate)/metal hybrids. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2314-2319.	2.6	2
88	Evaluation of membranes of copolypeptide of β -benzyl L-glutamate and L-glutamic acid for the permeability of anticancer drugs. <i>Journal of Membrane Science</i> , 1997, 130, 17-21.	8.2	1
89	THE ASSOCIATION OF LIVING POLYSTYRYLLITHIUM IN BENZENE. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2009, 27, 407.	3.8	1
90	Click cyclization of linear triblock copolymers at block junctions under high concentration due to end-block shielding. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 959-965.	3.8	1

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91	Interfacially initiated microemulsion copolymerization: One-stage preparation of poly(n-butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Science, 2006, 101, 3751-3757.	2.6	0
92	Degradable and cationic long-subchain hyperbranched block copolymers with well-defined block subchain: Synthesis, characterization and degradation. European Polymer Journal, 2020, 136, 109907.	5.4	0
93	ATRP OF STYRENE INITIATED BY 3-CHLORO-2-(CHLOROMETHYL)-1-PROPENE. Acta Polymerica Sinica, 2009, 007, 582-584.	0.0	0