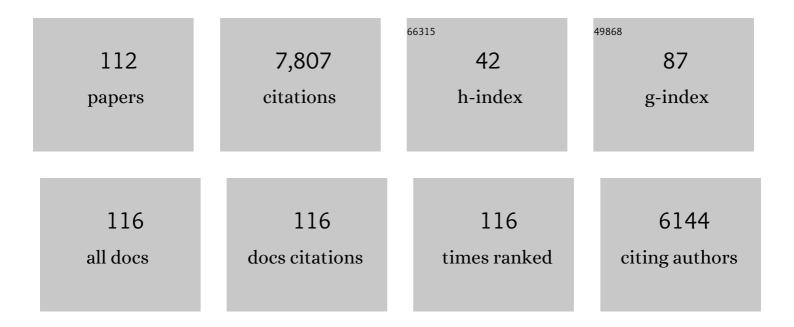
Haifeng Gao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthesis of functional polymers with controlled architecture by CRP of monomers in the presence of cross-linkers: From stars to gels. Progress in Polymer Science, 2009, 34, 317-350.	11.8	741
2	Synthesis of Molecular Brushes by "Grafting onto―Method:  Combination of ATRP and Click Reactions. Journal of the American Chemical Society, 2007, 129, 6633-6639.	6.6	559
3	Preparation of Homopolymers and Block Copolymers in Miniemulsion by ATRP Using Activators Generated by Electron Transfer (AGET). Journal of the American Chemical Society, 2005, 127, 3825-3830.	6.6	460
4	Synthesis of Star Polymers by a Combination of ATRP and the "Click―Coupling Method. Macromolecules, 2006, 39, 4960-4965.	2.2	435
5	Use of Ascorbic Acid as Reducing Agent for Synthesis of Well-Defined Polymers by ARGET ATRP. Macromolecules, 2007, 40, 1789-1791.	2.2	351
6	Inverse Miniemulsion ATRP:Â A New Method for Synthesis and Functionalization of Well-Defined Water-Soluble/Cross-Linked Polymeric Particles. Journal of the American Chemical Society, 2006, 128, 5578-5584.	6.6	313
7	Arm-First Method As a Simple and General Method for Synthesis of Miktoarm Star Copolymers. Journal of the American Chemical Society, 2007, 129, 11828-11834.	6.6	176
8	Synthesis of Degradable Miktoarm Star Copolymers via Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 5995-6004.	2.2	174
9	Development of an ab Initio Emulsion Atom Transfer Radical Polymerization:Â From Microemulsion to Emulsion. Journal of the American Chemical Society, 2006, 128, 10521-10526.	6.6	167
10	Low Polydispersity Star Polymers via Cross-Linking Macromonomers by ATRP. Journal of the American Chemical Society, 2006, 128, 15111-15113.	6.6	164
11	Structural Control in ATRP Synthesis of Star Polymers Using the Arm-First Method. Macromolecules, 2006, 39, 3154-3160.	2.2	161
12	Determination of Gel Point during Atom Transfer Radical Copolymerization with Cross-Linker. Macromolecules, 2007, 40, 7763-7770.	2.2	158
13	Development of Star Polymers as Unimolecular Containers for Nanomaterials. Macromolecular Rapid Communications, 2012, 33, 722-734.	2.0	156
14	Gradient Polymer Elution Chromatographic Analysis of α,ï‰-Dihydroxypolystyrene Synthesized via ATRP and Click Chemistry. Macromolecules, 2005, 38, 8979-8982.	2.2	146
15	One-Pot Synthesis of Robust Core/Shell Gold Nanoparticles. Journal of the American Chemical Society, 2008, 130, 12852-12853.	6.6	138
16	Chainâ€Growth Click Polymerization of AB ₂ Monomers for the Formation of Hyperbranched Polymers with Low Polydispersities in a Oneâ€Pot Process. Angewandte Chemie - International Edition, 2015, 54, 7631-7635.	7.2	138
17	Synthesis of Star Polymers by A New "Core-First―Method:  Sequential Polymerization of Cross-Linker and Monomer. Macromolecules, 2008, 41, 1118-1125.	2.2	131
18	Synthesis of Polyacrylate Networks by ATRP: Parameters Influencing Experimental Gel Points. Macromolecules, 2008, 41, 2335-2340.	2.2	124

#	Article	IF	CITATIONS
19	New Method To Access Hyperbranched Polymers with Uniform Structure via One-Pot Polymerization of Inimer in Microemulsion. Journal of the American Chemical Society, 2012, 134, 15680-15683.	6.6	107
20	One-Pot Synthesis of Hairy Nanoparticles by Emulsion ATRP. Macromolecules, 2009, 42, 1597-1603.	2.2	105
21	Easy Access to a Family of Polymer Catalysts from Modular Star Polymers. Journal of the American Chemical Society, 2010, 132, 2570-2572.	6.6	104
22	All-Star Polymer Multilayers as pH-Responsive Nanofilms. Macromolecules, 2009, 42, 368-375.	2.2	93
23	Developing recyclable pH-responsive magnetic nanoparticles for oil–water separation. Polymer, 2015, 72, 361-367.	1.8	92
24	Gelation in Living Copolymerization of Monomer and Divinyl Cross-Linker: Comparison of ATRP Experiments with Monte Carlo Simulations. Macromolecules, 2009, 42, 5925-5932.	2.2	88
25	Relationship between Interchain Interaction, Exciton Delocalization, and Charge Separation in Low-Bandgap Copolymer Blends. Journal of the American Chemical Society, 2014, 136, 10024-10032.	6.6	88
26	The use of azide–alkyne click chemistry in recent syntheses and applications of polytriazole-based nanostructured polymers. Nanoscale, 2016, 8, 4864-4881.	2.8	88
27	Synthesis of Miktoarm Star Polymers via ATRP Using the "Inâ~'Out―Method:  Determination of Initiation Efficiency of Star Macroinitiators. Macromolecules, 2006, 39, 7216-7223.	2.2	87
28	Low-Polydispersity Star Polymers with Core Functionality by Cross-Linking Macromonomers Using Functional ATRP Initiators. Macromolecules, 2007, 40, 399-401.	2.2	87
29	Synthesis of Low-Polydispersity Miktoarm Star Copolymers via a Simple "Arm-First―Method: Macromonomers as Arm Precursors. Macromolecules, 2008, 41, 4250-4257.	2.2	86
30	Synthesis of 3â€Arm Star Block Copolymers by Combination of "Coreâ€First―and "Couplingâ€Onto―M Using ATRP and Click Reactions. Macromolecular Chemistry and Physics, 2007, 208, 1370-1378.	ethods 1.1	84
31	Thermosensitive poly(N-isopropylacrylamide) nanocapsules with controlled permeability. Polymer, 2005, 46, 1087-1093.	1.8	79
32	Effect of Cross-Linker Reactivity on Experimental Gel Points during ATRcP of Monomer and Cross-Linker. Macromolecules, 2008, 41, 7843-7849.	2.2	75
33	Design a Highly Reactive Trifunctional Core Molecule To Obtain Hyperbranched Polymers with over a Million Molecular Weight in One-Pot Click Polymerization. Macromolecules, 2016, 49, 760-766.	2.2	73
34	Exploring Self-Condensing Vinyl Polymerization of Inimers in Microemulsion To Regulate the Structures of Hyperbranched Polymers. Macromolecules, 2015, 48, 2118-2126.	2.2	72
35	pH-Responsive Fluorescent Molecular Bottlebrushes Prepared by Atom Transfer Radical Polymerization. Macromolecules, 2011, 44, 5905-5910.	2.2	61
36	Biotinâ€, Pyreneâ€, and GRGDSâ€Functionalized Polymers and Nanogels via ATRP and End Group Modification. Macromolecular Chemistry and Physics, 2008, 209, 2179-2193.	1.1	60

Haifeng Gao

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37	Influence of Initiation Efficiency and Polydispersity of Primary Chains on Gelation during Atom Transfer Radical Copolymerization of Monomer and Cross-Linker. Macromolecules, 2009, 42, 927-932.	2.2	59
38	Recent Progress on Hyperbranched Polymers Synthesized via Radical-Based Self-Condensing Vinyl Polymerization. Polymers, 2017, 9, 188.	2.0	59
39	Hierarchically porous materials via assembly of nitrogen-rich polymer nanoparticles for efficient and selective CO2 capture. Journal of Materials Chemistry A, 2013, 1, 14862.	5.2	58
40	Mixed Mosaic Membranes Prepared by Layer-by-Layer Assembly for Ionic Separations. ACS Nano, 2014, 8, 12338-12345.	7.3	56
41	Produce Molecular Brushes with Ultrahigh Grafting Density Using Accelerated CuAAC Grafting-Onto Strategy. Macromolecules, 2017, 50, 215-222.	2.2	46
42	Rapid Cellular Internalization of Multifunctional Star Polymers Prepared by Atom Transfer Radical Polymerization. Biomacromolecules, 2010, 11, 2199-2203.	2.6	45
43	Tuning the thermal conductivity of solar cell polymers through side chain engineering. Physical Chemistry Chemical Physics, 2014, 16, 7764-7771.	1.3	44
44	Highly Branched Polymers with Layered Structures that Mimic Lightâ€Harvesting Processes. Angewandte Chemie - International Edition, 2018, 57, 516-520.	7.2	43
45	Cell-Adhesive Star Polymers Prepared by ATRP. Biomacromolecules, 2009, 10, 1795-1803.	2.6	42
46	Characterization of Linear and 3-Arm Star Block Copolymers by Liquid Chromatography at Critical Conditions. Macromolecular Chemistry and Physics, 2006, 207, 1709-1717.	1.1	40
47	Site Isolation of Emitters within Cross-Linked Polymer Nanoparticles for White Electroluminescence. Nano Letters, 2010, 10, 1440-1444.	4.5	39
48	Preparation of a novel polymeric fluorescent nanoparticle. Colloid and Polymer Science, 2002, 280, 653-660.	1.0	38
49	Synthesis of degradable molecular brushes via a combination of ringâ€opening polymerization and click chemistry. Journal of Polymer Science Part A, 2015, 53, 239-248.	2.5	36
50	Core-Double-Shell Fe ₃ O ₄ @Carbon@Poly(In ^{III} -carboxylate) Microspheres: Cycloaddition of CO ₂ and Epoxides on Coordination Polymer Shells Constituted by Imidazolium-Derived Al ^{III} –Salen Bifunctional Catalysts. ACS Applied Materials & Interfaces, 2015, 7, 4969-4978.	4.0	35
51	Investigate the Glass Transition Temperature of Hyperbranched Copolymers with Segmented Monomer Sequence. Macromolecules, 2016, 49, 4416-4422.	2.2	35
52	Effect of Monomer Structure on the CuAAC Polymerization To Produce Hyperbranched Polymers. Macromolecules, 2016, 49, 5342-5349.	2.2	34
53	Synthesis of acid-degradable hyperbranched polymers by chain-growth CuAAC polymerization of an AB ₃ monomer. Polymer Chemistry, 2016, 7, 5512-5517.	1.9	33
54	In Situ Photocatalyzed Polymerization to Stabilize Perovskite Nanocrystals in Protic Solvents. ACS Energy Letters, 2022, 7, 610-616.	8.8	33

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55	Melt rheology of star polymers with large number of small arms, prepared by crosslinking poly(n-butyl acrylate) macromonomers via ATRP. European Polymer Journal, 2011, 47, 746-751.	2.6	30
56	Development of a redox/pH dual stimuli-responsive MSP@P(MAA-Cy) drug delivery system for programmed release of anticancer drugs in tumour cells. Journal of Materials Chemistry B, 2014, 2, 5187-5194.	2.9	29
57	Developing Porous Honeycomb Films Using Miktoarm Star Copolymers and Exploring Their Application in Particle Separation. Macromolecular Rapid Communications, 2014, 35, 221-227.	2.0	28
58	One-pot synthesis of hyperstar polymers via sequential ATRP of inimers and functional monomers in aqueous dispersed media. Polymer Chemistry, 2015, 6, 6739-6745.	1.9	25
59	Cationic Hyperbranched Polymers with Biocompatible Shells for siRNA Delivery. Biomacromolecules, 2018, 19, 3754-3765.	2.6	25
60	Gelation in ATRP Using Structurally Different Branching Reagents: Comparison of Inimer, Divinyl and Trivinyl Cross-Linkers. Macromolecules, 2009, 42, 8039-8043.	2.2	24
61	Combinatorial therapy for triple negative breast cancer using hyperstar polymer-based nanoparticles. Chemical Communications, 2015, 51, 16710-16713.	2.2	24
62	Friedel–Crafts A ₂ + B ₄ Polycondensation toward Regioselective Linear Polymer with Rigid Triphenylmethane Backbone and Its Property as Gas Separation Membrane. Macromolecules, 2018, 51, 6580-6586.	2.2	24
63	Effect of crosslinker multiplicity on the gel point in ATRP. Journal of Polymer Science Part A, 2010, 48, 2016-2023.	2.5	23
64	Preparation of hyperstar polymers with encapsulated Au ₂₅ (SR) ₁₈ clusters as recyclable catalysts for nitrophenol reduction. Nanoscale, 2017, 9, 3629-3636.	2.8	23
65	Development of Excipient-Free Freeze-Dryable Unimolecular Hyperstar Polymers for Efficient siRNA Silencing. ACS Macro Letters, 2017, 6, 700-704.	2.3	23
66	Recent advances on synthesis and biomaterials applications of hyperbranched polymers. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1640.	3.3	23
67	Characterization of α,ï‰-dihydroxypolystyrene by gradient polymer elution chromatography and two-dimensional liquid chromatography. Designed Monomers and Polymers, 2005, 8, 533-546.	0.7	21
68	Synthesis and direct assembly of linear–dendritic copolymers <i>via</i> CuAAC click polymerization-induced self-assembly (CPISA). Polymer Chemistry, 2020, 11, 936-943.	1.9	21
69	Methacryloyl and/or Hydroxyl Endâ€Functional Star Polymers Synthesized by ATRP Using the Armâ€First Method. Macromolecular Chemistry and Physics, 2009, 210, 421-430.	1.1	20
70	Modular Approaches to Star and Miktoarm Star Polymers by ATRP of Crossâ€Linkers. Macromolecular Symposia, 2010, 291-292, 12-16.	0.4	20
71	Tandem Functionalization in a Highly Branched Polymer with Layered Structure. Chemistry - A European Journal, 2018, 24, 5974-5981.	1.7	19
72	Probing the Inhomogeneous Charge Distribution on Annealed Polyelectrolyte Star Polymers in Dilute Aqueous Solutions. ACS Macro Letters, 2016, 5, 402-406.	2.3	18

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73	Functional Degradable Polymeric Materials Prepared by Atom Transfer Radical Polymerization. ACS Symposium Series, 2006, , 184-200.	0.5	17
74	Comparison of Loading Efficiency between Hyperbranched Polymers and Cross‣inked Nanogels at Various Branching Densities. Macromolecular Rapid Communications, 2015, 36, 2076-2082.	2.0	17
75	Exciton Structure and Dynamics in Solution Aggregates of a Low-Bandgap Copolymer. Journal of Physical Chemistry B, 2015, 119, 7666-7672.	1.2	17
76	Highly Branched Polymers with Layered Structures that Mimic Lightâ€Harvesting Processes. Angewandte Chemie, 2018, 130, 525-529.	1.6	17
77	Amineâ€Functionalized Porous Polymer Network for Highly Selective Absorption of CO ₂ Over N ₂ . Macromolecular Chemistry and Physics, 2015, 216, 489-494.	1.1	15
78	Copolymer Nanofilters with Charge-Patterned Domains for Enhanced Electrolyte Transport. Chemistry of Materials, 2017, 29, 762-772.	3.2	15
79	Synthesis of Hyperbranched Polymers via Metalâ€Free ATRP in Solution and Microemulsion. Macromolecular Chemistry and Physics, 2020, 221, 2000008.	1.1	15
80	Synthesis of Linear Polymers in High Molecular Weights via Reaction-Enhanced Reactivity of Intermediates Using Friedel–Crafts Polycondensation. ACS Omega, 2021, 6, 4527-4533.	1.6	15
81	Magnetic Nanoplatforms for Covalent Protein Immobilization Based on Spy Chemistry. ACS Applied Materials & amp; Interfaces, 2021, 13, 44147-44156.	4.0	15
82	Preparation of water-soluble hyperbranched polymers with tunable thermosensitivity using chain-growth CuAAC copolymerization. Polymer Chemistry, 2016, 7, 7500-7505.	1.9	14
83	Synthesis of Hyperbranched Polymers with High Molecular Weight in the Homopolymerization of Polymerizable Trithiocarbonate Transfer Agent without Thermal Initiator. Macromolecules, 2016, 49, 6471-6479.	2.2	13
84	Preparation of a Waterâ€Soluble Fluorescent Polymer. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 357-371.	1.2	12
85	Click Functionalization of Well-Defined Copolymers Prepared by Atom Transfer Radical Polymerization. ACS Symposium Series, 2006, , 140-152.	0.5	12
86	Chain-growth click copolymerization for the synthesis of branched copolymers with tunable branching densities. Polymer Chemistry, 2022, 13, 891-897.	1.9	12
87	Ligand effect in the synthesis of hyperbranched polymers via copperâ€catalyzed azideâ€alkyne cycloaddition polymerization (CuAACP). Journal of Polymer Science Part A, 2018, 56, 2238-2244.	2.5	11
88	Recyclable Palladium-Loaded Hyperbranched Polytriazoles as Efficient Polymer Catalysts for Heck Reaction. ACS Applied Polymer Materials, 2020, 2, 677-684.	2.0	11
89	Facile Production of Polypyrrole Nanofibers Using a Freezeâ€Drying Method. Macromolecular Chemistry and Physics, 2014, 215, 669-674.	1.1	10
90	Construction of semi-fluorinated amphiphilic graft copolymer bearing a poly(2-methyl-1,4-bistrifluorovinyloxybenzene) backbone and poly(ethylene glycol) side chains via the grafting-onto strategy. RSC Advances, 2015, 5, 39668-39676.	1.7	10

Haifeng Gao

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91	A Novel Chain-Growth CuAAC Polymerization: One-pot Synthesis of Dendritic Hyperbranched Polymers with Well-Defined Structures. Synlett, 2017, 28, 391-396.	1.0	10
92	High‥ield Synthesis of Uniform Star Polymers—Is Controlled Radical Polymerization Always Needed?. Chemistry - A European Journal, 2009, 15, 6107-6111.	1.7	9
93	Thermal conductivity of organic bulk heterojunction solar cells: an unusual binary mixing effect. Physical Chemistry Chemical Physics, 2014, 16, 26359-26364.	1.3	9
94	Template synthesis of gold nanoparticles from hyperstar polymers and exploration of their catalytic function for hydrogen evolution reaction. Polymer, 2018, 153, 331-337.	1.8	9
95	Synthesis of multisegmented block copolymer by Friedel–Crafts hydroxyalkylation polymerization. Polymer Chemistry, 2020, 11, 2542-2549.	1.9	9
96	Recent Progress on Synthesis of Hyperbranched Polymers with Controlled Molecular Weight Distribution. ACS Symposium Series, 2015, , 135-147.	0.5	7
97	Tunable Fluorescence from a Responsive Hyperbranched Polymer with Spatially Arranged Fluorophore Arrays. Chemistry - an Asian Journal, 2018, 13, 3723-3728.	1.7	7
98	Shape and Mechanical Control of Poly(ethylene oxide) Based Polymersome with Polyoxometalates via Hydrogen Bond. Journal of Physical Chemistry B, 2017, 121, 1723-1730.	1.2	6
99	Chainâ€growth polymerization of azide–alkyne difunctional monomer: Synthesis of star polymer with linear polytriazole arms from a core. Journal of Polymer Science, 2020, 58, 84-90.	2.0	6
100	Molecular dynamics in PBA/PEO miktoarm star copolymers. Polymer, 2013, 54, 3341-3349.	1.8	5
101	Designing Hydrogels by ATRP. Series in Bioengineering, 2015, , 69-105.	0.3	5
102	Synthesis of Highly Branched Copolymers in Microemulsion. Macromolecular Chemistry and Physics, 2019, 220, 1800546.	1.1	5
103	Structural studies of poly(butyl acrylate) – poly(ethylene oxide) miktoarm star polymers. Polymer, 2011, 52, 5513-5520.	1.8	4
104	Synthesize Hyperbranched Polymers Carrying Two Reactive Handles via CuAAC Reaction and Thiol–Ene Chemistry. Macromolecular Chemistry and Physics, 2019, 220, 1900221.	1.1	4
105	A personal journey on using polymerization in aqueous dispersed media to synthesize polymers with branched structures. Chinese Chemical Letters, 2019, 30, 1996-2002.	4.8	4
106	Combining Hyperbranched and Linear Structures in Solid Polymer Electrolytes to Enhance Mechanical Properties and Room-Temperature Ion Transport. Frontiers in Chemistry, 2021, 9, 563864.	1.8	4
107	Morphology and NMR Self-Diffusion in PBA/PEO Miktoarm Star Copolymers. Zeitschrift Fur Physikalische Chemie, 2012, 226, 1271-1292.	1.4	3
108	Recent Progress on Grafting-onto Synthesis of Molecular Brushes by Reversible Deactivation Radical Polymerization and CuAAC Coupling Reaction. ACS Symposium Series, 2018, , 263-280.	0.5	3

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109	Gelation in Atom Transfer Radical Copolymerization with a Divinyl Cross-linker. ACS Symposium Series, 2009, , 203-213.	0.5	2
110	Innentitelbild: Chain-Growth Click Polymerization of AB2Monomers for the Formation of Hyperbranched Polymers with Low Polydispersities in a One-Pot Process (Angew. Chem. 26/2015). Angewandte Chemie, 2015, 127, 7562-7562.	1.6	1
111	Supramolecular Loading of a Broad Spectrum of Molecular Guests In Hyperbranched Polytriazole Nanoparticles with Cores Containing Multiple Functional Groups. Biomacromolecules, 2020, 21, 2165-2175.	2.6	1
112	Chainâ€growth polymerization of azide–alkyne difunctional monomer: Synthesis of star polymer with linear polytriazole arms from a core. Journal of Polymer Science, 2020, 58, 84-90.	2.0	0