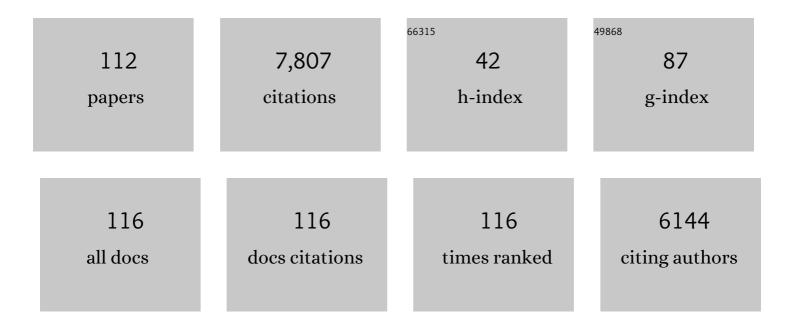
Haifeng Gao

List of Publications by Year in descending order

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HALFENIC CAO

| # | 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 |

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|----|---|---------------|-----------|
| 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 |

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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 |

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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 |