

CURRICULUM VITAE

Aug 01, 2012

Personal data



Full name: **Shiyong Liu (刘世勇)**
Date of birth: Oct 1972
Sex: Male
Present address: Head, Department of Polymer Science and Engineering
Director, CAS Key Laboratory of Soft Matter Chemistry
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Education

Ph.D. 1996 - 2000 Polymer Science, Fudan University
Thesis Advisor: Prof. Ming Jiang
M.S. 1993 - 1996 Polymer Chemistry and Physics, Wuhan University
Thesis Advisor: Prof. Hongzuo Wang
B.S. 1989 - 1993 Environmental Organic Chemistry, Wuhan University
Thesis advisor: Prof. Zaifu Huang

Research and Professional Experience

Member, 01/2008 - 12/2010
Editorial Advisory Board of *Macromolecules* (ACS journal)
Member, 06/2009 – present
Editorial Board of *Polymers* (*Open Access Journal* of MDPI)
Member, 10/2009 – 09/2012
Editorial Board of *Chinese Journal of Applied Chemistry*

Member, 01/2012 – 12/2015

Editorial Board of *Acta Chimica Sinica*

Member, 01/2012 – 12/2015

Editorial Board of *Chinese Chemistry Bulletin*

Professor, 12/2003 - present

Department of Polymer Science and Engineering, CAS Key Laboratory of Soft Matter Chemistry, Hefei National Laboratory of Physical Sciences at the Microscale, University of Science and Technology of China

Visiting Scholar (with Prof. Nitash Balsara), 11/2003 - 12/2003

Department of Chemical Engineering, University of California, Berkeley

Research Associate (with Prof. Eric W. Kaler), 06/2002 - 11/2003

Department of Chemical Engineering, University of Delaware

Research Fellow (with Prof. Steven P. Armes), 05/2000 - 05/2002

School of Life Sciences, University of Sussex, England

Research Assistant (with Prof. Chi-Ming Chan), 01/1999 - 06/1999

Department of Chemical Engineering, Hong Kong University of Science and Technology

Research Interests

- Controlled radical polymerizations and high vacuum anionic polymerization.
- Stimuli-responsive water-soluble polymers with varying chain architectures
- Supramolecular self-assembly and kinetic processes
- Molecular recognition concerning crown ethers, cyclodextrins, and complementary hydrogen bonding interactions
- Biomaterials and nanomedicines
- Surfactants and polymer colloids
- Responsive polymeric assemblies with tuned properties for applications in imaging, sensing, drug delivery, and catalysis.

Awards

- Distinguished Young Scholars Award (NSFC, 2004)
- 100 Talents Program (Chinese Academy of Sciences, CAS, 2004)
- Innovation Research Team (Macromolecular Solution & Colloids, Team Leader, 2005, Ministry of Education of China)
- New Century National Hundred, Thousand, and Ten Thousand Talents Project (2007)
- Special Government Allowance (2008)
- Chinese Chemical Society-Royal Chemical Society Young Chemist Award (2009)
- Excellent Tutor Award (2009, CAS)
- Cheung Kong Professor Award (2009, Ministry of Education of China)

- Young Faculty Achievement Award of USTC Alumni Foundation (2009)
- Excellent Tutor for Graduate Students Award (2010, CAS)
- Tutor of National Excellent PhD Thesis Award (2011, Ministry of Education of China)
- Young Scientist Award (2012, CAS)

Publications

- Coauthored 180 articles in peer-reviewed journals; 172 in SCI journals; 6 book chapters;
- 38 publications in *Macromolecules* (1 "Yearly Most-Cited Article"; 5 quarterly "Most-Accessed Articles" and 4 monthly "Most-Read Articles") and 23 in *Langmuir*; 7 publications in *Angew. Chem. Int. Ed.*, 5 in *J. Am. Chem. Soc.*, 1 in *Phys. Rev. Lett.*, and 1 in *Nature Commun.*;
- 2 publications in *Macromolecules* and 1 publication in *Angew. Chem. Int. Ed.* have been highlighted by "ACS Noteworthy Chemistry";
- 1 publication in *Langmuir* and 1 publication in *Angew. Chem. Int. Ed.* highlighted by "Nature China";

According to the ISI Web of Knowledge, as of Aug 2012:

- My publications have received a total of 4976 citations with an H-index of 40;
- For my five publications with the largest number of citations, the average number of citations per publication is 187;
- The 2002 *Macromolecules* publication on structural fixation of double hydrophilic block copolymer micelles has received 259 citations.

Selected Publications:

Publications at USTC

1. Y. H. Wu, H. M. Hu, J. M. Hu, S. Y. Liu* "Glucose-Regulated Insulin Release from Acid- Disintegrable Microgels Covalently Immobilized with Glucose Oxidase (GOx) and Catalase" *Macromol. Rapid Commun.* **2012**, 33, in press.
2. X. X. Sun, X. P. Zhang, X. Y. Li, S. Y. Liu*, G. Q. Zhang* "A Mechanistic Investigation of Mechanochromic Luminescent Organoboron Materials" *J. Mater. Chem.* **2012**, 22, 17332-17339.
3. J. F. Lutz*, S. Y. Liu*, B. Sumerlin* "Polymer Science: The Next Generation" *Macromol. Rapid Commun.* **2012**, 33, 721. (Editorial for the Special Issue).
4. J. M. Hu, G. Q. Zhang*, S. Y. Liu* "Enzyme-Responsive Polymeric Assemblies, Nanoparticles and Hydrogels" *Chem. Soc. Rev.* **2012**, 41, in press.
5. G. C. Yu, C. Y. Han, Z. B. Zhang, J. Z. Chen, X. Z. Yan, B. Zhang, S. Y. Liu*, F. H. Huang* "Pillar[6]arene-Based Photo-Responsive Host-Guest Complexation" *J. Am. Chem. Soc.* **2012**, 134, 8711-8717.
6. J. M. Hu, T. Wu, G. Y. Zhang, S. Y. Liu* "Efficient Synthesis of Single Gold Nanoparticle Hybrid Amphiphilic Triblock Copolymers and Their Controlled Self-Assembly" *J. Am. Chem. Soc.* **2012**, 134, 7624-7627.
7. J. M. Hu, T. Wu, G. Q. Zhang*, S. Y. Liu* "Highly Selective Fluorescence Sensing of Mercury Ions over a Broad Concentration Range Based on Mixed Polymeric Micelles" *Macromolecules* **2012**, 45, 3939-3947.

8. C. H. Li, J. M. Hu, S. Y. Liu* "Engineering FRET Processes within Synthetic Polymers, Polymeric Assemblies and Nanoparticles via Modulating Spatial Distribution of Fluorescent Donors and Acceptors" **Soft Matter** **2012**, 8, in press. (Invited Highlight Article).
9. X. R. Wang, J. M. Hu, T. Liu, G. Y. Zhang,* S. Y. Liu* "Highly Sensitive and Selective Fluorometric Off-On K⁺ Probe Constructed via Host-Guest Molecular Recognition and Aggregation-Induced Emission" **J. Mater. Chem.** **2012**, 22, 8622-8628.
10. C. H. Li, S. Y. Liu* "Polymeric Assemblies and Nanoparticles with Stimuli-Responsive Fluorescence Emission Characteristics" **Chem. Commun.** **2012**, 48, 3262-3278. (Invited Feature Article).
11. T. Liu, Y. F. Qian,* X. L. Hu, Z. S. Ge,* S. Y. Liu* "Mixed Polymeric Micelles as Multifunctional Scaffold for Combined Magnetic Resonance Imaging Contrast Enhancement and Targeted Chemotherapeutic Drug Delivery" **J. Mater. Chem.** **2012**, 22, 5020-5030.
12. T. Wu, Q. Q. Zhang, J. M. Hu, G. Y. Zhang,* S. Y. Liu* "Composite Silica Nanospheres Covalently Anchored with Gold Nanoparticles at the Outer Periphery of Thermoresponsive Polymer Brushes" **J. Mater. Chem.** **2012**, 22, 5155-5163.
13. J. M. Hu, Y. F. Qian,* X. F. Wang, T. Liu, S. Y. Liu* "Drug-Loaded and Superparamagnetic Iron Oxide Nanoparticle Surface Embedded Amphiphilic Block Copolymer Micelles for Integrated Chemotherapeutic Drug Delivery and MR Imaging" **Langmuir** **2012**, 28, 2073-2082. (Invited Article in the Bioinspired Assemblies and Interfaces Special Issue)
14. T. Liu, X. J. Li, Y. F. Qian,* X. L. Hu, S. Y. Liu* "Multifunctional pH-Disintegrable Micellar Nanoparticles of Asymmetrically Functionalized beta-Cyclodextrin-Based Star Copolymer Covalently Conjugated with Doxorubicin and DOTA-Gd Moieties" **Biomaterials** **2012**, 33, 2521-2531.
15. C. H. Li, T. Wu, C. Y. Hong, G. Q. Zhang,* S. Y. Liu* "A General Strategy to Construct Fluorogenic Probes from Charge-Generation Polymers (CGPs) and AIE-Active Fluorogens via Triggered Complexation" **Angew. Chem. Int. Ed.** **2012**, 51, 455-459; **Angew. Chem.** **2012**, 124, 470-474. (Highlighted by ACS Noteworthy Chemistry)
16. Y. Y. Jiang, X. L. Hu, J. M. Hu, H. Liu, H. Zhong,* S. Y. Liu* "Reactive Fluorescence Turn-On Probes for Fluoride Ions in Purely Aqueous Media Fabricated from Functionalized Responsive Block Copolymers" **Macromolecules** **2011**, 44, 8780-8790.
17. J. M. Hu, G. Y. Zhang, Y. H. Geng,* S. Y. Liu* "Micellar Nanoparticles of Coil-Rod-Coil Triblock Copolymers for Highly Sensitive and Ratiometric Fluorescent Detection of Fluoride Ions" **Macromolecules** **2011**, 44, 8207-8214.
18. J. M. Hu, L. Dai, S. Y. Liu* "Analyte-Reactive Amphiphilic Thermoresponsive Diblock Copolymer Micelles-Based Multifunctional Ratiometric Fluorescent Chemosensors" **Macromolecules** **2011**, 44, 4699-4710.
19. D. Wang, T. Liu, J. Yin, S. Y. Liu* "Stimuli-Responsive Fluorescent Poly(N-isopropylacrylamide) Microgels Labeled with Phenylboronic Acid Moieties as Multifunctional Ratiometric Probes for Glucose and Temperatures" **Macromolecules** **2011**, 44, 2282-2290.
20. C. H. Li, J. M. Hu, T. Liu, S. Y. Liu* "Stimuli-Triggered Off/On Switchable Complexation between a Novel

Type of Charge-Generation Polymer (CGP) and Gold Nanoparticles for the Sensitive Colorimetric Detection of Hydrogen Peroxide and Glucose **Macromolecules** **2011**, *44*, 429-431.

21. J. Yin, T. Wu, J. B. Song, Q. Zhang, S. Y. Liu*, R. Xu, H. W. Duan* "SERS-Active Nanoparticles for Sensitive and Selective Detection of Cadmium Ion (Cd^{2+})" **Chem. Mater.** **2011**, *23*, 4756-4764.
22. T. Wu, Z. S. Ge, S. Y. Liu* "Fabrication of Thermoresponsive Cross-Linked Poly(N-isopropylacrylamide) Nanocapsules and Silver Nanoparticle-Embedded Hybrid Capsules with Controlled Shell Thickness" **Chem. Mater.** **2011**, *23*, 2370-2380.
23. X. J. Li, Y. F. Qian, T. Liu*, X. L. Hu, G. Y. Zhang, Y. Z. You, S. Y. Liu* "Amphiphilic Multiarm Star Block Copolymer-Based Multifunctional Unimolecular Micelles for Cancer Targeted Drug Delivery and MR Imaging" **Biomaterials** **2011**, *32*, 6595-6605.
24. T. Liu, S. Y. Liu* "Responsive Polymers-Based Dual Fluorescent Chemosensors for Zn^{2+} Ions and Temperatures Working in Purely Aqueous Media" **Ana. Chem.** **2011**, *83*, 2775-2785.
25. J. M. Hu, X. Z. Zhang, D. Wang, X. L. Hu, T. Liu, G. Y. Zhang*, S. Y. Liu*, "Ultrasensitive Ratiometric Fluorescent pH and Temperature Probes Constructed from Dye-Labeled Thermoresponsive Double Hydrophilic Block Copolymers", **J. Mater. Chem.** **2011**, *21*, 19030-19038.
26. X. J. Wan, S. Y. Liu* "Fluorescent Water-Soluble Responsive Polymers Site-Specifically Labeled with FRET Dyes Possessing pH- and Thermo-Modulated Multicolor Fluorescence Emissions as Dual Ratiometric Probes" **J. Mater. Chem.** **2011**, *21*, 10321-10329.
27. X. J. Wan, T. Liu, S. Y. Liu* "Thermoresponsive Core Cross-Linked Micelles for Selective Ratiometric Fluorescent Detection of Hg^{2+} Ions" **Langmuir** **2011**, *27*, 4082-4090.
28. Z. S. Ge, Y. M. Zhou, Z. Tong, S. Y. Liu* "Thermogelling of Double Hydrophilic Multiblock and Triblock Copolymers of N,N-Dimethylacrylamide and N-Isopropylacrylamide: Chain Architectural and Hofmeister Effects" **Langmuir** **2011**, *27*, 1143-1151.
29. X. J. Wan, T. Liu, S. Y. Liu* "Synthesis of Amphiphilic Tadpole-Shaped Linear-Cyclic Diblock Copolymers via Ring-Opening Polymerization Directly Initiating from Cyclic Precursors and Their Application as Drug Nanocarriers" **Biomacromolecules** **2011**, *12*, 1146-1154.
30. J. Yin, H. B. Hu, Y. H. Wu, S. Y. Liu* "Thermo- and Light-Regulated Fluorescence Resonance Energy Transfer Processes within Dually Responsive Microgels" **Polym. Chem.** **2011**, *2*, 363-371. (Journal Hot Article; Cited 11 times; Highly Cited Papers, as of March 2012, Rated by Essential Science Indicators of ISI Web of Knowledge).
31. X. J. Wan, G. Y. Zhang*, Z. S. Ge, R. Narain*, S. Y. Liu* "Construction of Polymer-Protein Bioconjugates with Varying Chain Topologies: Polymer Molecular Weight and Steric Hindrance Effects" **Chem. Asian J.** **2011**, *6*, 2835-2845. (Invited Article in Click Chemistry Special Issue).
32. J. Y. Zhang, S. Y. Liu* "Kinetics of Thermo-Induced Micelle-to-Vesicle Transitions in Catanionic Surfactant System Investigated by Stopped-Flow Temperature Jump" **Phys. Chem. Chem. Phys.** **2011**, *13*, 12545-12553.
33. X. J. Wan, G. Y. Zhang, S. Y. Liu* "pH-Disintegrable Polyelectrolyte Multilayer-Coated Mesoporous Silica Nanoparticles Exhibiting Triggered Co-Release of Cisplatin and Model Drug Molecules" **Macromol. Rapid Commun.** **2011**, *32*, 1082-1089.

34. J. M. Hu, C. H. Li, Y. Cui, S. Y. Liu* "Highly Selective Colorimetric and Fluorometric Probes for Fluoride Ions Based on Nitrobenzofurazan-Containing Polymers" **Macromol. Rapid Commun.** **2011**, 32, 610-615.
35. Z. S. Ge, H. Liu, Y. F. Zhang, S. Y. Liu* "Supramolecular Thermoresponsive Hyperbranched Polymers Constructed from Poly(N-isopropylacrylamide) Containing One Adamantyl and Two β -Cyclodextrin Terminal Moieties" **Macromol. Rapid Commun.** **2011**, 32, 68-73.
36. C. H. Li, Y. X. Zhang, J. M. Hu, J. J. Cheng*, S. Y. Liu* "Reversible Three-State Switching of Multicolor Fluorescence Emission via Multiple Stimuli-Modulated FRET Processes within Thermoresponsive Polymeric Micelles" **Angew. Chem. Int. Ed.** **2010**, 49, 5120-5124; **Angew. Chem.** **2010**, 122, 5246-5250.
37. J. M. Hu, S. Y. Liu* "Responsive Polymers for Detection and Sensing Applications: Current Status and Future Developments" **Macromolecules** **2010**, 43, 8315-8330. (Invited Perspective Article; Most Read Articles over the last 12 months during the period of Dec 2010-Dec 2011; Ranked 6th among Top 20 Most-Cited Article in Macromolecules Journal over the Past 3 years, as of April 2012).
38. J. M. Hu, Z. S. Ge*, Y. M. Zhou, Y. F. Zhang, S. Y. Liu* "Unique Thermo-Induced Sequential Gel-Sol-Gel Transition of Responsive Multiblock Copolymer-Based Hydrogels" **Macromolecules** **2010**, 43, 5184-5187.
39. X. J. Wan, D. Wang, S. Y. Liu* "Fluorescent pH-Sensing Organic/Inorganic Hybrid Mesoporous Silica Nanoparticles with Tunable Redox-Responsive Release Capability" **Langmuir** **2010**, 26, 15574-15579.
40. J. M. Hu, C. H. Li, S. Y. Liu* "Hg²⁺-Reactive Double Hydrophilic Block Copolymer Assemblies as Novel Multifunctional Fluorescent Probes with Improved Performance" **Langmuir** **2010**, 26, 724-729.
41. J. Yin, C. H. Li, D. Wang, S. Y. Liu* "FRET-Derived Ratiometric Fluorescent K⁺ Sensors Fabricated from Thermoresponsive Poly(N-isopropylacrylamide) Microgels Labeled with Crown Ether Moieties" **J. Phys. Chem. B** **2010**, 114, 12213-12220.
42. X. J. Wan, S. Y. Liu* "Fabrication of Thermoresponsive Biohybrid Double Hydrophilic Block Copolymer via Cofactor Reconstitution Approach" **Macromol. Rapid Commun.** **2010**, 31, 2070-2076.
43. C. H. Li, S. Y. Liu* "Responsive Nanogel-Based Dual Fluorescent Sensors for Temperature and Hg²⁺ Ions with Enhanced Detection Sensitivity" **J. Mater. Chem.** **2010**, 20, 10716-10723. (Journal Hot Article)
44. C. Liu, K. K. Zhang, D. Y. Chen*, M. Jiang, S. Y. Liu* "Transforming spherical block polyelectrolyte micelles into freesuspending films via DNA complexation-induced structural anisotropy" **Chem. Commun.** **2010**, 46, 6135-6137.
45. J. M. Hu, D. Wang, J. Xu, Z. Y. Zhu, S. Y. Liu* "Contraction and Collapsing Kinetics of Single Synthetic Polymer Chains at Small Quench Depths", **Macromol. Chem. Phys.** **2010**, 211, 2573-2584.
46. X. J. Wan, J. Xu, S. Y. Liu* "Facile Synthesis of Dendrimer-Like Star-Branched Poly(N-isopropylacrylamide) via Combination of Click Chemistry and Atom Transfer Radical Polymerization", **Sci. China Ser. B-Chem.** **2010**, 53, 2520-2527.
47. Z. S. Ge, J. M. Hu, F. H. Huang*, S. Y. Liu* "Responsive Supramolecular Gels Constructed via Crown Ether-Based Molecular Recognition" **Angew. Chem. Int. Ed.** **2009**, 48, 1798-1802; **Angew. Chem.** **2009**, 121, 1830-1834.
48. Z. S. Ge, Y. M. Zhou, J. Xu, H. W. Liu, D. Y. Chen*, S. Y. Liu* "High-Efficiency Preparation of Macrocyclic

- Diblock Copolymers via Selective Click Reaction in Micellar Media*" **J. Am. Chem. Soc.** **2009**, 131, 1628-1629.
49. C. H. Li, J. M. Hu, J. Yin, **S. Y. Liu*** "Click Coupling Fullerene onto Thermo-responsive Water-Soluble Diblock Copolymer and Homopolymer Chains at Defined Positions" **Macromolecules** **2009**, 42, 5007-5016. (Monthly Most-Read Articles)
 50. C. H. Li, Z. S. Ge, J. Fang, **S. Y. Liu*** "Synthesis and Self-Assembly of Coil-Rod Double Hydrophilic Diblock Copolymer with Dually Responsive Asymmetric Centipede-Shaped Polymer Brush as the Rod Segment" **Macromolecules** **2009**, 42, 2916-2924.
 51. Z. S. Ge, D. Wang, Y. M. Zhou, H. W. Liu, **S. Y. Liu*** "Synthesis of Organic/Inorganic Hybrid Quatrefoil-Shaped Star-Cyclic Polymer Containing Polyhedral Oligomeric Silsesquioxane Core" **Macromolecules** **2009**, 42, 2903-2910. (Highlighted by ACS Noteworthy Chemistry; Monthly Most-Read Articles)
 52. T. Wu, G. Zhou, J. M. Hu, **S. Y. Liu*** "Fabrication of Photo-Switchable and Thermo-Tunable Multicolor Fluorescent Hybrid Silica Nanoparticles Coated with Dye-Labeled Poly(N-isopropylacrylamide) Brushes" **Chem. Mater.** **2009**, 21, 3788-3798.
 53. T. Liu, J. M. Hu, J. Yin, Y. F. Zhang, C. H. Li, **S. Y. Liu*** "Enhancing Detection Sensitivity of Responsive Microgel-Based Cu(II) Chemosensors via Thermo-Induced Volume Phase Transitions" **Chem. Mater.** **2009**, 21, 3439-3446.
 54. X. Z. Jiang, **S. Y. Liu***, R. Narain* "Degradable Thermo-Responsive Core Cross-Linked Micelles: Fabrication, Surface Functionalization, and Biorecognition" **Langmuir** **2009**, 25, 13344-13350.
 55. J. Yin, X. F. Guan, D. Wang, **S. Y. Liu*** "Metal-Chelating and Dansyl-Labeled Poly(N-isopropylacrylamide) Microgels as Fluorescent Cu(II) Sensors with Thermo-Enhanced Detection Sensitivity" **Langmuir** **2009**, 25, 11367-11374.
 56. H. Liu, C. H. Li, H. W. Liu, **S. Y. Liu*** "pH-Responsive Supramolecular Self-Assembly of Well-Defined Zwitterionic ABC Miktoarm Star Terpolymers" **Langmuir** **2009**, 25, 4724-4734.
 57. L. Shen, J. Z. Du, S. P. Armes, **S. Y. Liu*** "Kinetics of pH-Induced Formation and Dissociation of Polymeric Vesicles Assembled from a Water-Soluble Zwitterionic Diblock Copolymer" **Langmuir** **2008**, 24, 10019-10025.
 58. J. Yin, D. Dupin, J. F. Li, S. P. Armes,* **S. Y. Liu*** "pH-Induced Deswelling Kinetics of Sterically Stabilized Poly(2-vinylpyridine) Microgels Probed by Stopped-Flow Light Scattering" **Langmuir** **2008**, 24, 9334-9340.
 59. X. Z. Jiang, G. Y. Zhang, R. Narain*, **S. Y. Liu*** "Fabrication of Two Types of Shell Cross-Linked Micelles with "Inverted" Structures in Aqueous Solution from Schizophrenic Water-Soluble ABC Triblock Copolymer via Click Chemistry" **Langmuir** **2009**, 25, 2046-2054. (Highlighted by Nature China; DOI: 10.1038/nchina.2009.34)
 60. Z. S. Ge, J. Xu, J. M. Hu, Y. F. Zhang, **S. Y. Liu*** "Synthesis and Supramolecular Self-Assembly of Stimuli-Responsive Water-Soluble Janus-Type Heteroarm Star Copolymers" **Soft Matter** **2009**, 5, 3932-3939.
 61. X. Z. Jiang, G. Y. Zhang, R. Narain*, **S. Y. Liu*** "Covalently Stabilized Temperature and pH Responsive Four-Layer Nanoparticles Fabricated from Surface 'Clickable' Shell Cross-Linked Micelles" **Soft Matter** **2009**, 5, 1530-1538.
 62. Z. S. Ge, **S. Y. Liu*** "Supramolecular Self-Assembly of Nonlinear Amphiphilic and Double Hydrophilic Block Copolymers in Aqueous Solutions" **Macromol. Rapid Commun.** **2009**, 30, 1523-1532. (Invited Feature Article;

Most-Accessed Articles During the Period of Jan 2009-Dec 2009 and Aug 2009-July 2010)

63. Y. F. Zhang, H. Liu, J. M. Liu, C. H. Li, S. Y. Liu* "Synthesis and Aggregation Behavior of Multi-Responsive Double Hydrophilic ABC Miktoarm Star Terpolymer" **Macromol. Rapid Commun.** **2009**, *30*, 941-947.
64. C. H. Li, Z. S. Ge, H. W. Liu, S. Y. Liu* "Synthesis of Amphiphilic and Thermoresponsive ABC Miktoarm Star Terpolymer via a Combination of Consecutive Click Reactions and Atom Transfer Radical Polymerization" **J. Polym. Sci. Part A: Polym. Chem.** **2009**, *47*, 4001-4013.
65. Y. F. Zhang, C. H. Li, S. Y. Liu* "One-Pot Synthesis of ABC Miktoarm Star Terpolymers by Coupling ATRP, ROP, and Click Chemistry Techniques" **J. Polym. Sci. Part A: Polym. Chem.** **2009**, *47*, 3066-3077.
66. Y. F. Zhang, H. Liu, H. F. Dong, C. H. Li, S. Y. Liu* "Micelles Possessing Mixed Cores and Thermoresponsive Shells Fabricated from Well-Defined Amphiphilic ABC Miktoarm Star Terpolymers" **J. Polym. Sci. Part A: Polym. Chem.** **2009**, *47*, 1636-1650.
67. J. Yin, Z. S. Ge, H. Liu, S. Y. Liu* "Synthesis of Amphiphilic Copolymer Brushes Possessing Alternating Poly(methyl methacrylate) and Poly(N-isopropylacrylamide) Grafts via a Combination of ATRP and Click Chemistry" **J. Polym. Sci. Part A: Polym. Chem.** **2009**, *47*, 2608-2619.
68. J. Xu, S. Y. Liu* "Synthesis of Well-Defined 7-Arm and 21-Arm Poly(N-isopropylacrylamide) Star Polymers with β -Cyclodextrin Cores via Click Chemistry and Their Thermal Phase Transition Behavior in Aqueous Solution" **J. Polym. Sci. Part A: Polym. Chem.** **2009**, *47*, 404-419.
69. H. Liu, Y. F. Zhang, J. M. Hu, C. H. Li, S. Y. Liu* "Multi-Responsive Supramolecular Double Hydrophilic Diblock Copolymer Driven by Host-Guest Inclusion Complexation between β -Cyclodextrin and Adamantyl Moieties" **Macromol. Chem. Phys.** **2009**, *210*, 2125-2137. (Most-Accessed Articles During the Period of Aug 2009-July 2010)
70. J. Y. Rao, Z. Y. Zhu, S. Y. Liu* "Synthesis and Micellization Behavior of Stimuli-Responsive Polypeptide Hybrid Triblock Copolymer" **Chin. Sci. Bull.** **2009**, *54*, 1912-1917.
71. J. Ye, J. Xu, J. M. Hu, X. F. Wang, G. Z. Zhang, S. Y. Liu*, C. Wu "Comparative Study of Temperature-Induced Association of Cyclic and Linear Poly(N-isopropylacrylamide) Chains in Dilute Solutions by Laser Light Scattering and Stopped-Flow Temperature Jump" **Macromolecules** **2008**, *41*, 4416-4422.
72. J. Y. Zhang, Y. M. Zhou, Z. Y. Zhu, Z. S. Ge, S. Y. Liu* "Polyion Complex Micelles Possessing Thermoresponsive Coronas and Their Covalent Core-Stabilization via "Click" Chemistry" **Macromolecules** **2008**, *41*, 1444-1454. (Most-Accessed Articles in Macromolecules during Jan-Mar 2008)
73. J. Y. Rao, Z. F. Luo, Z. S. Ge, H. Liu, S. Y. Liu* "'Schizophrenic' Micellization Associated with Coil-to-Helix Transitions Based on Polypeptide Hybrid Double Hydrophilic Rod-Coil Diblock Copolymer" **Biomacromolecules** **2007**, *8*, 3871-3878.
74. J. Y. Rao, Y. F. Zhang, J. Y. Zhang, S. Y. Liu* "Facile Preparation of Well-Defined AB₂ Y-shaped Miktoarm Star Polypeptide Copolymer via the Combination of Ring-Opening Polymerization and Click Chemistry" **Biomacromolecules** **2008**, *10*, 2586-2593.
75. T. Wu, Y. F. Zhang, X. F. Wang, S. Y. Liu* "Fabrication of Hybrid Silica Nanoparticles Densely Grafted with Thermoresponsive Poly(N-isopropylacrylamide) Brushes of Controlled Thickness via Surface-Initiated Atom

- Transfer Radical Polymerization*" **Chem. Mater.** **2008**, *20*, 101-109. (Cited 65 times; Highly Cited Papers, as of March 2012, Rated by Essential Science Indicators of ISI Web of Knowledge)
76. J. Xu, **S. Y. Liu*** "Polymeric Nanocarriers Possessing Thermoresponsive Coronas" **Soft Matter** **2008**, *4*, 1745-1749. (Invited Highlight, Top-Ten Articles in Aug 2008)
 77. J. Y. Zhang, J. Xu, **S. Y. Liu*** "Chain-Length Dependence of Diblock Copolymer Micellization Kinetics Studied by Stopped-Flow pH-Jump" **J. Phys. Chem. B** **2008**, *112*, 11284-11291.
 78. Y. M. Zhou, K. Q. Jiang, Q. L. Song, **S. Y. Liu*** "Thermo-Induced Formation of Unimolecular and Multimolecular Micelles from Novel Double Hydrophilic Multiblock Copolymers of N,N-Dimethylacrylamide and N-Isopropylacrylamide" **Langmuir** **2007**, *23*, 13076-13084.
 79. X. F. Wang, Y. F. Zhang, Z. Y. Zhu, **S. Y. Liu*** "Fabrication of Fullerene-Containing Hybrid Vesicles via Supramolecular Self-Assembly of Well-Defined Amphiphilic Block Copolymer Incorporated with a Single Fullerene Moiety at the Diblock Junction Point" **Macromol. Rapid Commun.** **2008**, *29*, 340-346. (Invited Contribution for the Special Issue of MRC on "Self-Assembly and Hierarchical Structure Formation of Macromolecules")
 80. Y. M. Zhou, K. Q. Jiang, Y. Q. Chen, **S. Y. Liu*** "Gold Nanoparticle-Incorporated Core and Shell Cross-Linked Micelles Fabricated from Thermoresponsive Block Copolymer of N-Isopropylacrylamide and a Novel Primary-Amine Containing Monomer" **J. Polym. Sci. Part A: Polym. Chem.** **2008**, *46*, 6518-6531.
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