



Department: School of Chemical Engineering
Professional field: Chemical Engineering and Technology
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Profile

Education

2005: PhD, Physical Chemistry of Macromolecules, University Bayreuth, Germany.

1993: MS, Polymer Materials and Engineering, Sichuan University, China.

1990: BS, Material Science, Fudan University, China.

Academic Experience

2013-present: Professor, School of Chemical Engineering, ECUST, China.

2006-2013: Associate professor, School of Chemical Engineering, ECUST, China.

2005-2006: Postdoctoral Research, Chemical Engineering Department, University of Princeton, USA.

1993-1998: Research assistant, Institute of Organic Chemistry of Chinese Science Academy, Chengdu, China

Research Field

The main research fields are functional modification of polymer, study of macromolecular assembly structure, size and interaction between nanoparticles by SAXS, rheology and other methods. He has published more than 50 papers in the journals of *Angew. Chem. Int. Edit.*, *Macromolecules*, *Langmuir*, *Biomacromolecules*, *AIChE J.*, and authorized 6 invention patents. As the person in charge, he has undertaken and completed the National Natural Science Foundation project, the Ministry of education returned to China fund, Nanjing Petrochemical, Zhangjiagang fumiao science and technology and other industrial projects, and won the 2008 Shanghai Pujiang talent plan project support.

Research results and selected published papers

1. Tao Zhang, Li Li*, Zhishuang Ye, Qingsong Yang, Yuchuan Tian, Xuhong Guo, Preparation and Characterization of Ag-Pd Bimetallic Nano-Catalysts in Thermosensitive Microgel Nano-reactor, *RSC Adv* 2018, 8(33), 18252-18259.
2. Zhinan Fu, Li Li*, Mingwei Wang*, Xuhong Guo, Size Control of Drug Nanoparticles Stabilized by mPEG-b-PCL during Flash Nanoprecipitation, *Colloid Polym Sci* 2018, 296(5), 935-940.
3. Haoya Han, Li Li*, Qingsong Yang, Yuchuan Tian, Regine von Klitzing, Xuhong Guo*. Characterization of hollow silica-polyelectrolyte composite nanoparticles by small-angle X-ray scattering. *J. Mater. Sci.* 2018, 53: 3210-3224.
4. Haoya Han, Li Li*, Weihua Wang, Yuchuan Tian, Regine von Klitzing, Xuhong Guo*. Core-Shell-Corona Silica Hybrid Nanoparticles Templated by Spherical Polyelectrolyte Brushes: A Study by Small Angle X-ray Scattering. *Langmuir* 2017, 33 (38), 9857-9865.
5. Haoya Han, Li Li*, Yuchuan Tian, Regine von Klitzing, Xuhong Guo*. Spherical polyelectrolyte nanogels as templates to prepare hollow silica nanocarriers: observation by small angle X-ray scattering and TEM. *RSC Advances* 2017, 7 (76), 47877-47885.
6. Wang W, Li L*, Henzler K, et al. Protein Immobilization onto Cationic Spherical Polyelectrolyte Brushes Studied by Small Angle X-Ray Scattering. *Biomacromolecules* 2017, 18(5), 1574.
7. Tian Y, Li L*, Han H, et al. Modification of Spherical Polyelectrolyte Brushes by Layer-by-Layer Self-Assembly as Observed by Small Angle X-ray Scattering. *Polymers* 2016, 8(4), 145-157.
8. Mingwei Wang, Xiaojun Zhang, Li Li*, Junyou Wang, Jie Wang, Jun Ma, Zhenyu Yuan, Stephen F. Lincoln, Xuhong Guo*. Photo-reversible supramolecular hydrogels assembled by γ -cyclodextrin and azobenzene substituted poly(acrylic acid)s: Effect of substitution degree, concentration, and tethered chain length. *Macromol Mater Eng* 2016, 301(2), 191-198.
9. Kai Huang, Li Li*, Jie Wang, Zhiming Zhou, Xuhong Guo. Tunable Double-stranded Inclusion Complexes of γ -Cyclodextrin Threaded onto Non-modified Poly(ethylene glycol). *Colloid Polym Sci* 2016, 294(2), 311-319.
10. Weihua Wang, Fangfang Chu, Li Li*, Haoya Han, Yuchuan Tian, Yunwei Wang, Zhenyu Yuan, Zhiming Zhou, Xuhong Guo*. Interactions among spherical poly(acrylic acid) brushes: Observed by rheology and small angle X-ray scattering. *J Polym Sci Pol Phys* 2016, 54, 405-413.
11. Weihua Wang, Li Li*, Haoya Han, Yuchuan Tian, Zhiming Zhou, Xuhong Guo*. Tunable immobilization of protein in anionic spherical polyelectrolyte brushes as observed by small-angle X-ray scattering. *Colloid Polym Sci* 2015, 293(10), 2789-2798.
12. Fei Zhao, Li Li*, Yuchuan Tian, Jianjia Liu, Jianjun Wang, Zhiming Zhou, Chunxiang Lv*, Xuhong Guo. Preparation of Au/Ag Multilayers via Layer-by-Layer Self-Assembly in Spherical Polyelectrolyte Brushes and their Catalytic Activity. *Chinese J Polym Sci* 2015, 33(10), 1421-1430.
13. Xuanji Yu, Shibin Huang, Kaimin Chen, Zhiming Zhou, Xuhong Guo*, Li Li*, Preparation of functional Janus particles with response to magnetic force, *Ind Eng Chem Res* 2015, 54(10), 2690-2696.