



所属学院 化工学院

学科领域 化学工程与技术

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个人简介

受教育经历:

1986-1990, 复旦大学, 材料科学系高分子材料专业, 本科;

1990-1993, 四川大学, 高分子材料系高分子材料专业, 硕士;

2001-2005, 德国拜罗伊特大学, 高分子物理与化学专业, 博士。

研究工作经历:

1993-1998 中科院成都有机化学研究所, 研实、助研;

1998-2001 德国卡尔斯鲁厄大学 (KIT) 化学系高分子研究所, 进修德语及专业;

2005-2006 美国普林斯顿大学 (University of Princeton) 化工系, 博士后;

2006- 至今华东理工大学化工学院, 副教授 (2006.11), 教授 (2013.9), 硕导。

研究方向

主要研究领域为高分子的功能化改性以及利用 SAXS、流变学等方法研究大分子组装结构、尺寸以及纳米粒子间的相互作用。在 *Angew. Chem. Int. Edit.*, *Macromolecules*, *Langmuir*, *Biomacromolecules*, *AIChE J.* 等杂志上共发表论文 50 余篇, 授权发明专利 6 项。作为负责人承担并完成国家自然科学基金项目, 教育部留学回国基金, 以及南京石化、张家港富森科技等工业界项目, 荣获 2008 年度上海市浦江人才计划项目资助。

研究成果及主要发表文章

1. H. Han, L. Li*, W. Wang, Y. Tian, Y. Wang, J. Wang, R. von Klitzing, X. Guo, Core-Shell-Corona Silica Hybrid Nanoparticles Templated by Spherical Polyelectrolyte Brushes: A Study by Small Angle X-ray Scattering[J]. *Langmuir* 2017, 33: 9857.
2. W. Wang, L. Li*, K. Henzler, Y. Lu, J. Wang, H. Han, Y. Tian, Y. Wang, Z. Zhou, G. Lotze, Protein Immobilization onto Cationic Spherical Polyelectrolyte Brushes Studied by Small Angle X-ray Scattering. *Biomacromolecules* 2017, 18: 1574.
3. Siyi Wang, Kaimin Chen, Li Li*, and Xuhong Guo*, Binding between proteins and cationic spherical polyelectrolyte brushes: Effect of pH, Ionic strength, and stoichiometry. *Biomacromolecules* 2013, 14, 818-827.
4. Li Li, Jun Xu, Jack Tinsley, Douglas H. Adamson, Brian A. Pethica, John S. Huang, Robert K. Prud' homme and Xuhong Guo*, Improvement of oil flowability by assembly of comb-type copolymers with paraffin and asphaltene. *AIChE J.* 2012, 58, 2254-2261.
5. Li Li, Xuhong Guo*, Douglas H. Adamson, Brian A. Pethica, John S. Huang, and Robert K. Prud' homme, Flow improvement of waxy oils by modulating long-chain paraffin crystallization with comb polymers: An observation by X-ray diffraction. *Ind. Eng. Chem. Res.* 2011, 50, 316-321.
6. Li Li, Xuhong Guo*, Jie Wang, Peng Liu, Robert K. Prud' homme, Bruce L. May, and Stephen F. Lincoln, Polymer networks assembled by host-guest inclusion between adamantly and β -cyclodextrin substituents on poly(acrylic acid) in aqueous solution. *Macromolecules* 2008, 41, 8677-8681.
7. Li Li, Xuhong Guo*, Lin Fu, Robert K. Prud' homme and Stephen F. Lincoln, Complexation behavior of α -, β - and γ -cyclodextrin in modulating and constructing polymer networks. *Langmuir* 2008, 24, 8290-8296.
8. Li Li, Structural Analysis of Cylindrical Particles by Small Angle X-ray Scattering, Dissertation, Bayreuth university, 2005.
9. Li Li, L. Harnau, S. Rosenfeldt, and M. Ballauff*, Effective Interaction of Charged Platelets in Aqueous Solutions: Investigation of Colloid Laponite Suspensions by Static Light Scattering and