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研究方向

长期从事材料化学工程领域的研究，包括功能型乳液、纳米材料、相变储能材料、超分子水凝胶、多孔吸附材料等聚合物功能材料的制备及其在催化、吸附分离和药物控释等方面的应用。

研究成果及主要发表文章

【主要成果】
近年来发表 SCI 收录学术论文近 50 篇，包括 AICHE J., Chem. Eng.Sci., Ind. Eng. Chem. Res. 等化工三大期刊论文 7 篇；申请国家发明专利 4 项，其中授权 3 项。

【近年来发表的代表性论文】

1. Zhenyu Yuan, Jie Wang*, Yiming Wang, Yujie Zhong, Xinsheng Zhang, Li Li, Junyou Wang, Stephen F. Lincoln, Xuhong Guo*, Redox-controlled voltage responsive micelles assembled by noncovalently grafted polymers for controlled drug release. *Macromolecules* 2019, 52 (4), 1400-1407.
2. Yiming Wang, Frank Versluis, Sander Oldenhof, Vasudevan Lakshminarayanan, Kai Zhang, Yunwei Wang, Jie Wang, Rienk Eelkema*, Xuhong Guo*, Jan H. van Esch*, Directed nanoscale self-assembly of low molecular weight hydrogelators using catalytic nanoparticles. *Adv. Mater.* 2018, 30(21), 1707408.
3. Yiming Wang, Jie Wang*, Zhenyu Yuan, Haoya Han, Tao Li, Li Li, Xuhong Guo*, Chitosan cross-linked poly(acrylic acid) hydrogels: Drug release control and mechanism. *Colloid and Surfaces B: Biointerfaces* 2017, 152, 252-259.
4. Yisheng Xu, Kaihang Shi, Shuangliang Zhao*, Xuhong Guo and Jie Wang*, Block length determines the adsorption dynamics mode of triblock copolymers to a hydrophobic surface, *Chemical Engineering Science* 2016, 142, 180-189.
5. Mengxue Wang, Jie Wang*, Yiming Wang, Chang Liu, Jianjia Liu, Zhiqiang Qiu, Yisheng Xu, Stephen F. Lincoln, Xuhong Guo*, Synergetic catalytic effect of α -cyclodextrin on silver nanoparticles loaded in thermosensitive hydrogel. *Colloid and Polymer Science* 2016, 294, 1087-1095.
6. Yiming Wang, Jie Wang*, Tongshuai Wang, Yisheng Xu, Lei Shi, Yongtao Wu, Li Li, Xuhong Guo*, Pod-like supramicelles with multicompartiment hydrophobic cores prepared by self-assembly of modified chitosan. *Nano-Micro Letters* 2016, 8(2), 151-156.
7. Yiming Wang, Jie Wang*, Haoya Han, Jianjia Liu, Hanqing Zhao, Muxian Shen, Yisheng Xu, Jun Xu, Li Li, Xuhong Guo*, Self-assembled micelles of N-phthaloylchitosan-g-poly (N-vinylcaprolactam) for temperature-triggered non-steroidal anti-inflammatory drug delivery. *Journal of Materials Science* 2016, 51(3), 1591-1599.
8. Jie Wang, Yisheng Xu*, Yiming Wang, Jianjia Liu, Jun Xu, Li Li, Hanh-Trang Nguyen, Duc-Truc Pham, Stephen F. Lincoln, Xuhong Guo*, Bridged-cyclodextrin supramolecular hydrogels: host-guest interaction between a cyclodextrin dimer and adamantyl substituted poly(acrylate)s. *RSC Advances* 2015, 5 (57), 46067-46073.
9. Jianjia Liu, Liang Yan, Jie Wang*, Tao Li, Hanqing Zhao, Li Li, Stephen F. Lincoln*, Robert K. Prud'homme, Xuhong Guo*, Reversible photo-responsive vesicle based on the complexation between an azobenzene containing molecule and α -cyclodextrin. *RSC Advances* 2015, 5(41), 32846-32852.
10. Jianjia Liu, Jie Wang*, Zhongming Zhu, Li Li, Xuhong Guo*, Stephen F. Lincoln, Robert K. Prud'homme, Cooperative catalytic activity of cyclodextrin and Ag nanoparticles immobilized on spherical polyelectrolyte brushes. *AIChE Journal*, 2014, 60(6), 1977-1982.