Jie Wang

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Professional field: Chemical Engineering and Technology
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Profile

Education

2010:Ph.D., Material Chemical Engineering, East China University of Science and Technology, Shanghai, China.

2004:B.Eng., Polymer Materials Science and Engineering, Hefei University of Technology, Hefei, China.

Academic Experience

2015-present: Associate professor, School of Chemical Engineering, East China University of Science and Technology, China.

2008-2009: Co-trained PhD student, Department of Chemistry, University of Adelaide, Australia.

Research Field

He has long been engaged in the field of materials and chemical engineering, including functional emulsion, nanomaterials, phase change energy storage materials, supramolecular hydrogels, porous adsorption materials and other functional materials, and their applications in catalysis, adsorption separation and drug controlled release.

Research results and selected published papers

1.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.

2.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.

3.Jie Wang, Zhiqiang Qiu, Yiming Wang, Li Li, Xuhong Guo*, Duc- Truc Pham, Stephen F. Lincoln* and Robert K. Prud’ homme, Supramolecular polymer assembly in aqueous solution arising from cyclodextrin host-guest complexation. Beilstein Journal of Organic Chemistry 2016, 12, 50-72. (Invited Review)

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 multicompartment 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, Jianjia Liu, Xuhong Guo*, Liang Yan, Stephen F. Lincoln*, The formation and catalytic activity of silver nanoparticles in aqueous polyacrylate solutions. Frontiers of Chemical Science and Engineering 2016, 10(3), 432-439.

9.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.

10.Mingwei Wang, Yisheng Xu, Jie Wang*, Miaomiao Liu, Zhenyu Yuan, Kai Chen, Li Li, Robert K. Prud’ homme, Xuhong Guo*, Biocompatible nanoparticle based on dextran-b-poly(L-Lactide) block copolymer formed by flash nanoprecipitation. Chemistry Letters 2015, 44(12), 1688-1690.

11.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.

12.Jianjia Liu, Jie Wang*, Yiming Wang, Chang Liu, Miaomiao Jin, Yisheng Xu, Li Li, Xuhong Guo*, Aiguo Hu, Tingyu Liu, Stephen F. Lincoln*, Robert K. Prud’ homme, A thermosensitive hydrogel carrier for nickel nanoparticles. Colloid and Interface Science Communications 2015, 4, 1-2.