



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

教育背景:

08/2008-05/2012 Ph.D. 化学, 美国马萨诸塞大学 (Amherst)

08/2005-05/2008 M.A. 化学, 美国亚利桑那大学,

09/ 2002- 11/2004 M.S. 应用化学, 华东理工大学,

09/1997- 07/2001 B.S. 应用化学, 华东理工大学

科研工作经历:

2018- 至今 华东理工大学, 教授,

2013-2018 华东理工大学, 副教授,

06/2012-09/2013, 康奈尔大学材料科学与工程系, 博士后, 导师: C. K. Ober

01/2013-09/2013 美国 APPLIED MATERIALS 公司

研究方向

主要从事基于纳米材料微反应器过程强化制备及其在功能材料负载、生物吸附领域的应用, 围绕无何物改性材料结构特征对工程应用的影响, 通过对聚电解质材料分子官能化的设计, 深入研究利用工程化手段从多尺度优化聚何物改性材料结构在组装强化过程中的新机理及新方法。

研究成果及主要发表文章

1. C. Xu, Y. Yan, J. Tan, D. Yang, X. Jia, L. Wang, Y. Xu*, S. Cao*, S. Sun*, Biodegradable Nanoparticles of Polyacrylic Acid Stabilized Amorphous CaCO₃ for Tunable pH-Responsive Drug Delivery and Enhanced Tumor Inhibition, *Adv. Funct. Mater.* 2019, 1808146
- A. Li, Y. Si, X. Wang, X. Jia, X. Guo, Y. Xu, Polyvinyl Alcohol Nanocrystal Assisted Hydrogels with High Toughness and Elastic Modulus for 3D Printing, *ACS Appl. Nano Mater.* 2019, 2, 707-715
2. X. Wang, K. Zheng, Y. Si*, X. Guo, Y. Xu*, Protein-Polyelectrolyte Interaction: Thermodynamic Analysis Based on the Titration Method, *Polymers*, 2019, 11, 82
3. S. Zhang, B. Hong, Y. Xu*, M. P. Titus*, Aquivion-Carbon Composites with Tunable Amphiphilicity for Pickering Interfacial Catalysis, *ACS Appl. Mater. Interface*, 2018, 10 (31), 26795-26804.
4. X. Wang, S. Zhang, Y. Xu*, X. Zhao, X. Guo*, Ionic strength responsive binding between nanoparticles and proteins, *Langmuir*, 2018, 34 (28), 8264-8273.
- A. Li, Y. Jia, S. Sun*, Y. Xu*, B. B. Minsky, M. A. Cohen Stuart, H. Cölfen, R. Klitzing, X. Guo* Mineral Hydrogel as Oyster-Inspired Organic-Inorganic Hybrid Adhesive, *ACS Appl. Mater. Interface*, 2018, 10, 10471-10479
5. M. Wang, Y. Xu*, Y. Liu, W. Fu, J. Tan, P. Shi, D. Yang, Z. Guo*, W. Zhu, X. Guo*, and M. A. Cohen Stuart, Morphology Tuning of AIE Probe by Flash Nanoprecipitation: Shape and Size Effects on Real-time In Vivo Imaging, *ACS Appl. Mater. Interface*, 2018, 10, 25186-25193.
6. M. Li, Y. Xu*, J. Sun, M. Wang, D. Yang, X. Guo, H. Song, S. Cao*, Y. Yan*, Fabrication of Charge-Conversion Nanoparticles for Cancer Imaging by Flash Nanoprecipitation, *ACS Appl. Mater. Interface*, 2018, 10, 10752-10760.
7. M. Liu, W. Tang, Z. Xie, H. Yu, H. Yin, Y. Xu*, S. Zhao*, S. Zhou*, Design of Highly Efficient Pt-SnO₂ Hydrogenation Nanocatalysts Using Pt@Sn Core-shell Nanoparticles. *ACS Catal.* 2017, 7, 1583
8. Y. Xu*, M. Liu, M. Faisal, Y. Si, Y. Guo*, Selective protein complexation and coacervation by polyelectrolytes. *Adv. Coll. Interface Sci.* 2017, 239, 158. Invited Review
9. K. Gu, Y. Xu, H. Li, Z. Guo, S. Zhu, S. Zhu, P. Shi, T. James, H. Tian, W. Zhu, Real-Time Tracking and In Vivo Visualization of β -Galactosidase Activity in Colorectal Tumor with a Ratiometric NIR Fluorescent Probe, *J. Am. Chem. Soc.* 2016, 138, 5334