



所属学院 化工学院
学科领域 材料化学工程
邮箱 yimingwang@ecust.edu.cn

个人简介

2017 年 9 月获华东理工大学化学工程专业博士学位，期间赴荷兰 TU Delft 进行博士联合培养。2017 年 9 月 TU Delft 化工系进行博士后研究，2019 年 7 月回国任职于华东理工大学化工学院，受聘为特聘研究员，博士生导师；2020 年上海市海外高层次人才引进计划获得者。

社会兼职：

《华东理工大学学报自然科学版》执行编委
《功能高分子学报》特约编辑

承担项目：

上海市海外高层次人才引进计划，在研，主持
国家自然科学基金青年基金，在研，主持
中央高校基本科研业务费杰出人才培养基金项目，在研，主持
华东理工大学创新人才项目，在研，主持

研究方向

主要从事新型动态软物质材料的设计与制备研究，开展所开发材料在生物医药、能源等方面的应用探索和成果转化。研究方向包括：

- 1. 非平衡态智能仿生聚合物材料；
- 2. 超分子聚合物材料；
- 3. 环境适应型软物质材料。

研究成果及主要发表文章

相关研究成果已在 J. Am. Chem. Soc.、Adv. Mater.、Angew. Chem. Int. Ed.、IECR 等化学、材料、化工领域国际权威期刊上发表学术论文 27 篇；授权专利 1 项。

近年来发表的代表性论文：

- 1.Yiming Wang, Zhi Xu, Matija Lovrak et al. Biomimetic strain-stiffening self-assembled hydrogels. Angew. Chem. Int. Ed. 2020, 59, 4830-4934. (IF=12.959, Back Cover)
- 2.Yiming Wang, Tomasz K. Piskorz, Matija Lovrak et al. Transient supramolecular hydrogels formed by aging-induced seeded self-assembly of molecular hydrogelators. Adv. Sci. 2020, 7, 1902487. (IF=15.84)
- 3.Yiming Wang, Robin M. de Kruijff, Matija Lovrak et al. Access to metastable gel states using seeded self-assembly of low-molecular-weight gelators. Angew. Chem. Int. Ed. 2019, 58, 3800-3803. (IF=12.959)
- 4.Yiming Wang, Matija Lovrak, Qian Liu et al. Hierarchically compartmentalized supramolecular gels through multilevel self-sorting. J. Am. Chem. Soc. 2019, 141, 2847-2851. (IF=14.612, Suppl. Cover)
- 5.Yiming Wang, Frank Versluis, Sander Oldenhof et al. Directed nanoscale self-assembly of low molecular weight hydrogelators using catalytic nanoparticles. Adv. Mater. 2018, 30, 1707408. (IF=27.398)
- 6.Yiming Wang, Sander Oldenhof, Frank Versluis et al. Controlled fabrication of micropatterned supramolecular gels by directed self-assembly of small molecular gelators. Small 2019, 15, 1804154. (IF=11.459)
- 7.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 Lett. 2016, 8, 151-156. (IF=12.264)
- 8.Yu Wang, Yiming Wang(*), Jie Wang et al. Mineralized supramolecular hydrogels bearing tunable thermo-responsiveness. Macromol. Rapid Commun. 2019, 40, 1900516. (Front Cover)
- 9.Hucheng Wang, Liqun Liu, Shengyu Bai, Xuhong Guo, Rienk Eelkema, Jan H. van Esch* and Yiming Wang(*), Transient supramolecular hydrogels formed by catalytic control over molecular self-assembly, Soft Matter 2020, DOI: 10.1039/D0SM01584A
- 10.Xinyu Liu, Xiaofeng Niu, Zhinan Fu, Liqun Liu, Shengyu Bai, Jie Wang, Li Li, Yiming Wang(*) and Xuhong Guo. A facile approach to obtain highly tough and stretchable LAPONITE®-based nanocomposite hydrogels. Soft Matter 2020. DOI: 10.1039/D0SM01132K.
- 11.Xiaofeng Niu, Yu Wang, Chengyuan Xu, Zhinan Fu, Shengyu Bai, Jie Wang, Yiming Wang(*), Xuhong Guo*. Access to highly tough hydrogels by polymer modules for application of catalytic reactors. Ind. Eng. Chem. Res. 2020, 59, 4977-4986.
- 12.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. Colloids Surf. B Biointerfaces 2017, 152, 252-259.
- 13.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. J. Mater. Sci. 2016, 51, 1591-1599.