



所属学院 材料科学与工程学院

学科领域 材料科学与工程，材料工程，
高分子化学与物理

邮箱 chengql@ecust.edu.cn

个人简介

1987年毕业于浙江师范大学化学系；1993年获吉林大学理学硕士；1996年获吉林大学理学博士；1996年8月至1998年6月为中国科学院化学研究所博士后；1998年6月至2000年7月为美国康奈尔大学 (Cornell University) 博士后研究员 (Postdoc Research Fellow)；2000年7月至2002年5月为美国密执根大学 (University of Michigan) 研究员 (Research Fellow)；2002年7月复旦大学副教授；2003年7月华东理工大学教授、博士生导师。获美国杜邦全球科学和工程奖 (DuPont Science & Engineering Grant)，入选国家教育部新世纪优秀人才、上海市曙光学者。

研究方向

功能高分子材料、药物控释材料、组织工程材料、水凝胶、药物晶型、药物剂型等

研究成果及主要发表文章

- (1). JunZhang, Yan Xiao*, Xueli Luo, Lianlei Wen, Andreas Heise and Meidong Lang*. Schizophrenic poly(ϵ -caprolactone)s: synthesis, self-assembly and fluorescent decoration. *Polymer Chemistry* 2017, 8(21), 3261-3270.
- (2). YanXiao*, Sihuan Lang, Jing Qin, Rui Yin, Andreas Heise, Meidong Lang*. A highly stretchable bioelastomer prepared by UV curing of liquid-like poly (4-methyl- ϵ -caprolactone) precursors. *Journal Materials Chemistry B* 2017, 5(3), 595-603.
- (3). Yixing Dai, Shuo Wang, Weibin Shi*, Meidong Lang*. pH-responsive carboxymethyl chitosan-derived micelles as apatinibcarriers for effective anti-angiogenesis activity: Preparation and in vitro evaluation. *Carbohydrate Polymers* 2017, 176, 107-116.
- (4). Chao Wei, Yan Zhang*, Yiru Xia, Zhongchen Song, Heng Xu, and Meidong Lang*. Enhanced Bioreduction-responsive Biodegradable Diselenide-Containing Poly(ester urethane) Nanocarriers. *Biomaterials Science* 2017, 5(4), 669-677.
- (5). YunlongSun, Changlin Chen, Heng Xu, Kun Lei, Guanzhe Xu, Li Zhao*, Meidong Lang*. Surface modification of silicon wafer by grafting novel zwitterionic polymers to improve its antifouling property. *Applied Surface Science* 2017, 419, 642-649.
- (6). Guanzhe Xu, Yan Xiao*, Liang Cheng, Runhua Zhou, Heng Xu, Yimin Chai, Meidong Lang*. Synthesis and rheological investigation of self-healable deferoxamine grafted alginate hydrogel. *Journal of Polymer Science, Part B: Polymer Physics* 2017, 55(11), 856-865.
- (7). Yan Xiao*, Jianqiang Wang, Jun Zhang, Andreas Heise, Meidong Lang*. Synthesis and gelation of copolypept(o)ides with random and block structure. *Biopolymers* 2017, 107(10), 1-9.
- (8). Yunlong Sun, Changlin Chen, Heng Xu, Kun Lei, Guanzhe Xu, Li Zhao*, Meidong Lang*. Synthesis and Antibacterial Performance of Functional Organic-norganic Silica Nanocomposites Based on Novel Zwitterionic Polymer. *Journal of Inorganic and Organometallic Polymers and Materials* 2017, 27(5), 1351-1364.
- (9). Yan Zhang*, YingXu, Chao Wei, Yuanying Zhang, Liu Yang, Zhongchen Song, Meidong Lang*. Diselenide-containing poly(ϵ -caprolactone)-based thermo-responsive hydrogels with oxidation and reduction-triggered degradation. *Materials Today Chemistry* 2017, 4, 172-179.
- (10). Yan Zhang*, Xiaolin Du, Dan Hu, Jing Zhang, Yan Zhou, Guoquan Min, and Meidong Lang*. Combined Chemical Groups and Topographical Nanopattern on the Poly(epsilon-Caprolactone) Surface for Regulating Human Foreskin Fibroblasts Behavior. *ACS Applied Materials & Interfaces* 2016, 8(12), 7720-7728.
- (11). Yongjun Li*, Zukai Jian, Meidong Lang, Chunming Zhang, Xiaoyu Huang*. Covalently Functionalized Graphene by Radical Polymers for Graphene-Based High-Performance Cathode Materials. *ACS Applied Materials & Interfaces* 2016, 8(27), 17352-17359.
- (12). Jun Zhang, Yan Xiao*, Heng Xu, Chen Zhou, Meidong Lang*. Synthesis of well-defined carboxyl poly(ϵ -caprolactone) by fine-tuning the protection group. *Polymer Chemistry* 2016, 7(28), 4630-4637.
- (13). Chao Wei, Yan Zhang*, Heng Xu, Ying Xu, Yue Xu, Meidong Lang*. Well-defined labile diselenide-centered poly(ϵ -caprolactone)-based micelles for activated intracellular drug release. *Journal of Materials Chemistry B* 2016, 4(29), 5059-5067.
- (14). Min Chen, Lei Xu, Yan Zhou, Yan Zhang, Meidong Lang, Zhaoyang Ye*, WenSong Tan*. Poly (ϵ -caprolactone)-based substrates bearing pendant small chemical groups as a platform for systemic investigation of chondrogenesis. *Cell Proliferation* 2016, 49(4), 512-522.
- (15). Yan Zhang*, Miao Wang, Jinhai Ye, Meidong Lang*. Pendant Groups Fine-tuning Thermal Gelation of Poly(ϵ -caprolactone)-b-Poly(ethylene glycol)-b-Poly(ϵ -caprolactone) Aqueous Solution. *Journal of Polymer Science, Part A: Polymer Chemistry* 2016, 54(16), 2571-2581.
- (16). Vanminh Le, Meidong Lang, Weibin Shi, Jianwen Liu. A collagen-based multicellular tumor spheroid model for evaluation of the efficiency of nanoparticle drug delivery. *Artificial Cells Nanomedicine and Biotechnology* 2016, 44(2), 540-544.
- (17). Xiaofei Ma, Yan Xiao*, Heng Xu, Kun Lei, Meidong Lang*. Preparation, degradation and in vitro release of ciprofloxacin-eluting ureteral stents for potential antibacterial application. *Materials Science and Engineering C* 2016, 66, 92-99.
- (18). Guanzhe Xu, Liang Cheng, Qintong Zhang, Yunlong Sun, Changlin Chen, Yimin Chai, Meidong Lang*. In situ thioled alginate hydrogel: instant formation and its application in hemostasis. *Journal of Biomaterials Applications* 2016, 31(5), 721-729.
- (19). Hong Liu, Yan Xiao*, Heng Xu, Yebin Guan, Jun Zhang, Meidong Lang*. Synthetic polypeptides with varied hydrogen bonding between side groups. *Chemical Communication* 2015, 51, 10174-10177.
- (20). Zhengzhen Du, Yan Zhang*, Heng Xu, Meidong Lang*. Functionalized Pluronic-b-poly (ϵ -caprolactone)based nanocarriers of paclitaxel: solubilization, antiproliferative efficacy and in vivo pharmaceutical kinetics. *Journal of Materials Chemistry B* 2015, 3, 3685-3694.
- (21). Min Chen, Yi Zhang, Yan Zhou, Yan Zhang, Meidong Lang, Zhaoyang Ye*, Wen-Song Tan*. Pendant small functional groups on poly(ϵ -caprolactone) substrate modulate adhesion, proliferation and differentiation of human mesenchymal stem cells. *Colloids and Surfaces B: Biointerfaces* 2015, 134, 322-331.
- (22). Vanminh Le, Jingjing Wang, Ming Yuan, Thelong Nguyen, Guifang Yin, Yuanhong Zheng, Weibin Shi, Meidong Lang, Leiming Xu*, Jianwen Liu*. An investigation of antitumor efficiency of novel sustained and targeted 5-fluorouracil nanoparticles. *European Journal of Medicinal Chemistry* 2015, 92, 882-889.
- (23). Yu Xia, Kai Zhu, Hao Lai, Meidong Lang, Yan Xiao, Sheng Lian, Changfa Guo*, Chunsheng Wang. Enhanced infarct myocardium repair mediated by thermosensitive copolymer hydrogel-based stem cell transplantation. *Experimental Biology and Medicine* 2015, 240(5), 593-600.
- (24). Zhengzhen Du, Yan Zhang*, Meidong Lang*. Synthesis of functionalized Pluronic-b-poly (ϵ -caprolactone) and the comparative study of their pendant groups on the cellular internalization behavior. *Journal of Materials Science: Materials in Medicine* 2015, 26(4), 171(1-12).
- (25). 杜征臻, 张琰*, 叶金海, 徐衡, 郎美东*. 聚己内酯- 紫杉醇高分子前药的合成及性能研究. *化学学报* 2015, 73(4), 349-356.