



所属学院 材料科学与工程学院

学科领域 生物医用高分子, 化学

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## 个人简介

屈雪, 博士, 教授, 博导。从事天然生物大分子(蛋白、聚糖、多酚)的材料构建与医学应用研究, 包括各类活性水凝胶、功能膜/涂层、组织工程支架等等。在材料学主流刊物如 ACS Nano、JACS、Adv. Funct. Mater.、Biomaterials 等上共发表 SCI 论文 44 篇, 篇均 IF=5.985, 其中第一/通讯作者论文 24 篇 (IF>10 的 8 篇)。主持国家及省/部级项目多项, 荣获国家优秀青年科学基金、上海市“青年科技启明星”, 日本 JSPS Fellow。

## 研究方向

基于天然分子的生物材料

## 研究成果及主要发表文章

- Miao Lei, Xue Qu\*, Huan Liu, Yi Liu, Shijia Wang, Shang Wu, William E. Bentley, Gregory F. Payne, Changsheng Liu\* “Programmable Electrofabrication of Porous Janus Films with Tunable Janus Balance for Anisotropic Cell Guidance and Tissue Regeneration” Adv. Funct. Mater. 2019,29:1900065.
- Haoqi Tan, Dawei Jin, Xue Qu\*, Huan Liu, Meng Yin\*, Changsheng Liu\*. “A PEG-lysozyme hydrogel harvests multiple functions as a fit-to-shape tissue sealant for internal-use of body” Biomaterials 2019,192:392-404.
- Huan Liu, Xue Qu\*, Eunkyong Kim, Miao Lei, Kai Dai, Xiaoli Tan, Miao Xu, Jinyang Li, Yangping Liu, Xiaowen Shi, Peng Li, Gregory F. Payne, Changsheng Liu\* “Bio-Inspired Redox-Cycling Antimicrobial Film for Sustained generation of Reactive Oxygen Species” Biomaterials 2018,162,109-122.
- □ Jinyang Li, Xue Qu\*, Payne GF, Cheng Zhang, Yuxin Zhang, Jianbo Li, Jie Ren, Hua Hong, Changsheng Liu\* “Biospecific self-assembly of a nano-particle coating for targeted and stimuli-responsive drug delivery” Adv. Func. Mater. 2015,25,1404-1417.
- Xue Qu, Naoki Kobayashi, Teruyuki Komatsu\* “Solid nanotubes comprising a-Fe2O3 nanoparticles prepared from ferritin protein” ACS nano 2010,4,1732-1738.
- □□ Xue Qu, Teruyuki Komatsu\* “Molecule capture in protein nanotube” ACS nano 2010,4,563-573.
- Xue Qu, Cui WJ., Yang F., Min CC., Shen H., Bei JZ., Wang SG.\*, “The effect of oxygen plasma pretreatment and incubation in modified simulated body fluids on the formation of bone-like apatite on poly (lactide-coglycolide)(70/30)” Biomaterials 2007,28,9-18.
- Xue Qu, Wan YQ., Zhang HW., Cui WJ., Bei JZ., Wang SG.\*, “Porcine-derived xenogeneic bone/poly(glycolide-co-lactide-co-caprolactone) composite and its affinity with rat OCT-1 osteoblast-like cells” Biomaterials 2006,27,216-225.