



Department: School of Materials Science & Engineering

Professional field: Biomedical polymer, Chemistry

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Profile

EDUCATION

- Ph. D. Sep 2001- Dec 2006, State Key Laboratory of Polymer Physics & chemistry, Institute of Chemistry, Chinese Academy of Sciences, Beijing, P. R. China,
Supervisor: Professor Shenguo Wang
Major in biomedical polymer
- B. S. Sep 1997- Jun 2001, School of Chemistry and Chemical Engineering, Zhengzhou University, Zheng Zhou, P. R. China,
Major in Chemistry

WORK EXPERIENCE

- Sep 2018- present School of Materials Science and Engineering, East China University of Science and Technology,
Professor
- Sep 2009- Aug 2018 School of Materials Science and Engineering, East China University of Science and Technology,
Associate Professor
- Mar 2007- Aug 2009 Waseda University, Japan
JSPS Postdoctoral Fellow
- Sep 2007- Aug 2009 Keio University, Japan
Guest Researcher

Research Field

natural molecule-based biomaterials

Research results and selected published papers

- 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.