



苏州大学

材料与化学化工学部

College of Chemistry, Chemical Engineering and Materials Science of Soochow University



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师资队伍

材料学院

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教育背景:

1993-1997 河南师范大学，学士

1997-2002 中国科学院上海植物生理生态研究所，博士

2002-2003 美国Johns Hopkins University，博士后

2003-2008 武汉理工大学，副教授

2008-2010年法国国家科学研究院蛋白质生物与化学研究所，Lyon 1 University 博士后

2010- 苏州大学，副教授

研究兴趣:

细胞-高分子材料界面相互作用的分子生物学机理；

功能生物高分子的合成；

干细胞在生物材料上的生长与分化；

面向生物医用的蛋白质工程。

近年发表论文:

1. Feng Liu, Yuecheng Cui, Lei Wang, **Hongwei Wang***, Yuqi Yuan, Jingjing Pan, Hong Chen, Lin Yuan*. Temperature-responsive poly(*N*-isopropylacrylamide) modified gold nanoparticle-protein conjugates for bioactivity modulation. *ACS Applied Materials & Interfaces*, 2015, DOI: 10.1021/acsami.5b02502.
2. Wenwen Jiang, Xiaoli Liu, Di Wu, **Hongwei Wang***, Yanwei Wang, Hong Chen, Lin Yuan*. A simple, rapid one-step ELISA using antibody-antibody complex. *Biotechnology and Applied Biochemistry*, 2015, 62, 126-131.
3. Lei Wang, Lin Yuan, **Hongwei Wang***, Xiaoli Liu, Xinming Li, Hong Chen*. A new strategy for reversible modulation of protein activity through site-specific conjugation of small molecule and polymer. *Bioconjugate Chemistry*, 2014, 25, 1252-1260.
4. Min Tan, **Hongwei Wang***, Yanyun Wang, Gaojian Chen, Lin Yuan*, Hong Chen. Recyclable antibacterial material: silicon grafted with 3,6-O-sulfated chitosan and specifically bound by lysozyme. *Journal of Materials Chemistry B*, 2014, 2, 569-576.
5. Jingjing Pan, Zhonglin Lyu, Wenwen Jiang, **Hongwei Wang***, Qi Liu, Min Tan, Lin Yuan*, Hong Chen. Stimulation of gene transfection by silicon nanowire arrays modified with polyethylenimine. *ACS Applied Materials & Interfaces*, 2014, 6, 14391-14398.
6. Yajun Xu, Lei Wang, Wenwen Jiang, **Hongwei Wang***, Jianlin Yao, Qinghua Guo, Lin Yuan*, Hong Chen. Silicon nanowire arrays - A new catalyst for the reduction of nitrobenzene derivatives. *ChemCatChem*, 2013, 5, 3788-3793.
7. **Hongwei Wang***, Wenwen Jiang, Yanwei Wang, Xiaoli Liu, Jianlin Yao, Lin Yuan, Zhaoqiang Wu, Dan Li, Bo Song, Hong Chen*. Catalase-like and peroxidase-like catalytic activities of silicon nanowire arrays. *Langmuir*, 2013, 29, 3-7.
8. **Hongwei Wang***, Wenwen Jiang, Lin Yuan*, Lei Wang, Hong Chen*. Reductase-like activity of silicon nanowire arrays. *ACS Applied Materials & Interfaces*, 2013, 5, 1800-1805.
9. **Hongwei Wang***, Yanwei Wang, Lin Yuan*, Lei Wang, Weikang Yang, Zhaoqiang Wu, Dan Li, Hong Chen*. Thermally responsive silicon nanowire arrays for native/denatured protein separation. *Nanotechnology*, 2013, 24, 105101.

10. **Hongwei Wang**, Lei Wang, Lin Yuan*, Weikang Yang, John L Brash, Hong Chen*. Inhibitory effect of silicon nanowires on the polymerase chain reaction. *Nanotechnology*, 2012, 23, 365101.
11. **Hongwei Wang**, Lin Yuan*, Tieliang Zhao, He Huang, Hong Chen*. Altered enzymatic activity of lysozymes bound to variously sulfated chitosans. *Chinese Journal of Polymer Science*, 2012, 30, 893-899.
12. **Hongwei Wang**, Lei Wang, Pengchao Zhang, Lin Yuan, Qian Yu, Hong Chen*. High antibacterial efficiency of pDMAEMA modified silicon nanowire arrays. *Colloids and Surfaces B: Biointerfaces*, 2011, 83: 355-359.