

XIAOGE (Emily) HU

Room 805-808, Floor 8, Sun Palace
No. 12A, Taiyanggong middle road,
Chaoyang District, Beijing, P.R. China 100028

Cell: 13693389792
Phone: 010-84187857
Email: hxiaoge@gmail.com

EDUCATION AND TRAINING

- ◆ **Postdoctoral Associate in Bioengineering**; University of Washington, Seattle, USA, 2008-2012
- ◆ **Ph. D. in Analytical Chemistry**; Chinese Academy of Sciences, Changchun, P.R. China, 2008
- ◆ **B. S. in Chemistry**; Northwest University, Xi'an City, P.R. China, 2002

HIGHLIGHTS

- ◆ Four years' experience in STM publishing
- ◆ Ten year's research experience in material science and analytical chemistry.
- ◆ Work effectively in a multidisciplinary team environment.
- ◆ Excellent technical writing and presentation skills.

WORK EXPERIENCE

Author Service Manager, Wiley VCH (China, Beijing) 10/2012-present

- ◆ Assessment of manuscripts submitted for publication.
- ◆ Peer review evaluation for Advanced Materials family journals
- ◆ Acquisition of articles for journals.
- ◆ Correspondence with authors.
- ◆ Launch and promote new journals
- ◆ Extensive subject searches in various scientific fields.
- ◆ Institution visit and scientific conference

Postdoctoral Fellow, University of Washington (Seattle, WA) 01/2008 – 10/2012

- ◆ Developed reverse-microemulsion method for silica coating of CdSe quantum dots, prepared ultra-stable probes in the full spectrum of pH range, constructed ratiometric pH sensor suitable for intracellular pH sensing.
- ◆ Designed gold nanorod-based magnetic composite structures for imaging, sensitive detection, accumulation and photothermal therapy of circulating tumor cells.
- ◆ Designed magnetic mesoporous silica structures, biodegradable polymer nanoparticles with magnetic properties as carrier for hydrophobic anticancer drugs and SiRNA.
- ◆ Developed micro-emulsion method for fluorescent quantum dots, gold, magnetic nanoparticles doped polymeric particles for drug delivery and release, characterized the nanoparticles with SEM and TEM.
- ◆ Block copolymer assembly for multifunctional nanoparticles.

Research Assistant, Changchun Institute of Applied Chemistry (Changchun, China) 09/ 2002 – 12/ 2007

- ◆ Self-assembled monolayer, sandwich and multilayer films of metal nanostructures, polymers and carbon nanotubes on solid surfaces, studied the films using SEM and SERS techniques, and analyzed the composition with EDX and elemental mapping on SEM.
- ◆ Synthesized, modified, and characterized nanomaterials (gold, silver, carbon nanotube, Fe₃O₄, CdTe, TiO₂, and SiO₂) with different sizes and shapes.

- ◆ Developed efficient electrocatalysts for O₂ reduction based on carbon nanotube-metal nanoparticle composites.
- ◆ Designed amino acids and DNA biosensors based on nanomaterial optical properties.

Undergraduate Research Assistant, Northwest University (Xi'an China) 09/ 2001 – 07/ 2002

- ◆ Determination of vitamin B1 in pharmaceutical preparations by flow-injection analysis with biamperometric detection.

AWARDS AND AFFINITY

- ◆ American Chemical Society Member (2009~Present)
- ◆ Alexander von Humboldt Research Fellowship (2008)
- ◆ Excellent Graduate Student of Changchun Institute of Applied Chemistry, China (2007)
- ◆ Outstanding Graduates of Northwest University, China (2001)
- ◆ Second-class Scholarship of Northwest University, China (2000)
- ◆ First-class Scholarship and Excellent Student Award of Northwest University, China (1999)
- ◆ Chinese-American Friendship Fellowship (1999)

SELECTED PUBLICATIONS (30 in total)

1. **Xiaoge Hu**, Chen-Wei Wei, Jinjun Xia, Ivan Pelivanov, Matthew O'Donnell and Xiaohu Gao, Trapping and Photoacoustic Detection of CTCs at the Single Cell per Milliliter Level with Magneto-Optical Coupled Nanoparticles, *Small*, 2013, 9, 2046–2052
2. **Xiaoge Hu** and Xiaohu Gao. Multilayer coating of gold nanorods for combined stability and biocompatibility, *Phys. Chem. Chem. Phys.* 2011, 13, 10028-10035.
3. **Xiaoge Hu** and Xiaohu Gao. Silica–Polymer Dual Layer-Encapsulated Quantum Dots with Remarkable Stability, *ACS Nano* 2010, 4, 6080–6086.
4. **Xiaoge Hu**, Pavel Zrazhevskiy, and Xiaohu Gao. Encapsulation of Single Quantum Dots with Mesoporous Silica, *Annals of Biomedical Engineering* 2009, 37, 1960-1966.
5. **Xiaoge Hu** and Shaojun Dong. Metal nanomaterials and carbon nanotubes - synthesis, functionalization and potential applications towards electrochemistry, *J. Mater. Chem.* 2008, 18, 1279-1295.
6. Tie Wang, **Xiaoge Hu**, and Shaojun Dong. A Renewable SERS Substrates based on Silver Coated Gold Nanoparticle Microtubes. *Small* 2008, 4, 781-786.
7. **Xiaoge Hu**, Tie Wang, Liang Wang, and Shaojun Dong. Surface-Enhanced Raman Scattering of 4-Aminothiophenol Self-Assembled Monolayers in Sandwich Structure with Nanoparticle Shape Dependence: off-Surface Plasmon Resonance Condition, *J. Phys. Chem. C* 2007, 111, 6962-6969.
8. **Xiaoge Hu**, Tie Wang, Liang Wang, Shaojun Guo, and Shaojun Dong. A General Route to Prepare One- and Three- Dimensional Carbon Nanotube/Metal Nanoparticle Composite Nanostructures. *Langmuir* 2007, 23, 6352-6357.
9. **Xiaoge Hu**, Tie Wang, and Shaojun Dong. Thermal Annealing of Au nanorod Self-Assembled Nanostructured Materials: Morphology and Optical Properties, *J. Colloid Interface Sci.* 2007, 316, 947-953.
10. Tie Wang, **Xiaoge Hu**, Shaojun Dong. A General Route to Transform Normal Hydrophilic Cloths into Superhydrophobic Surfaces, *Chem. Commun.* 2007, 18, 1849-1851.
11. **Xiaoge Hu**, Tie Wang, Xiaohu Qu, and Shaojun Dong. In Situ Synthesis and Characterization of Multiwalled Carbon Nanotube/Au Nanoparticle Composite Materials, *J. Phys. Chem. B* 2006, 110, 853-857.