

Xin Ji



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EDUCATION BACKGROUND

09/2009~ Present Department of Chemistry and Biochemistry, Florida State University, USA

✧ Material Chemistry, **PhD Candidate**

09/2006~ 07/2009 State Key Lab of Supramolecular Structure and Materials, Jilin University, China

✧ Physical Chemistry, **Master of Science**

09/2002 ~ 07/2006 College of Chemistry Science, Jilin University, China

✧ Macromolecular Material and Engineering, **Bachelor of Engineering**

RESEARCH EXPERIENCE

09/2009 ~ Present Research on charge transfer interactions between luminescent quantum dots and redox active dopamine complexes.

05/2008 ~ 06/2009 Research on Förster Resonance Energy Transfer (FRET) in responsive amphiphilic block copolymer micelles.

11/2005 ~ 04/2008 Research on functional nano-materials based on amphiphilic block copolymers.

04/2003 ~ 06/2004 Undergraduate research on synthesis and characterization of monodispersed silica microsphere.

AWARDS AND HONORS

- FSU Dean Fellowship
- Jilin University Scholarship
- Outstanding Student Prize, Jilin University
- Chemistry Platform Prize, College of Chemistry Science, Jilin University

PUBLICATIONS AND CONFERENCE

- ◆ **X. Ji**, G. Pauli, T. Avellini, H. Na, C. Yi, K. Knappenberger, H. Mattoussi*
“On the pH-Dependent Quenching of Quantum Dot Photoluminescence by Redox Active Dopamine”
Journal of American Chemical Society, 134 (13), 6006–6017(2012)
- ◆ F. Aldeek, **X. Ji**, H. Mattoussi*
“Quenching of Quantum Dot Emission by Fluorescent Gold Clusters: What It Does and Does Not Share with the Förster Formalism”
The Journal of Physical Chemistry C 117 (29), 15429-15437
- ◆ N. Zhan, G. Palui, M. Safi, **X. Ji**, H. Mattoussi*
“Multidentate Zwitterionic Ligands Provide Compact and Highly Biocompatible Quantum Dots”
Journal of the American Chemical Society, 135 (37), 13786–13795(2013)
- ◆ H. Na, G. Pauli, J. Rosenberg, **X. Ji**, S. Grant, H. Mattoussi*
“Multidentate Catechol-Based Polyethylene Glycol Oligomers Provide Enhanced Stability and Biocompatibility to Iron Oxide Nanoparticles”
ACS nano, 6(1), 389-399 (2012)
- ◆ **X. Ji**, G. Pauli, K. Knappenberger, H. Mattoussi*
“On the pH-Dependent Quenching of Quantum Dot Photoluminescence by Redox Active

Dopamine”

Oral Presentation (Session 15) on 7th International Conference on Quantum Dots, Santa Fe Community Convention Center, New Mexico, USA, May 13-18, 2012

- ◆ **X. Ji**, G. Pauli, K. Knappenberger, H. Mattoussi*
“Quantum Dot-Redox Active Dopamine Assemblies: pH-Dependent Fluorescent Platforms
Oral Presentation (Session 5) on Nano-bio Collaborative International Conference (NBCIC), USF Nano-medicine Research Center, Tampa, Florida, USA, March 22-24, 2012
- ◆ **X. Ji**, G. Pauli, H. Na, H. Mattoussi*
“Understanding Charge Transfer Interactions in Quantum Dot-Dopamine Redox Complexes”
Poster Presentation (CC5.26) on Material Research Society (MRS) Fall Meeting, Hynes Convention Center, Boston, Massachusetts, USA, Nov 27-Dec 2, 2011
- ◆ **X. Ji**, G. Pauli, K. Knappenberger, H. Mattoussi*
“On the pH-Dependent Quenching of Quantum Dot Photoluminescence by Redox Active Dopamine”
Poster Presentation on NaNaX 5 Conference, Fuengirola, Spain, May 7-11, 2012
- ◆ R. Makki, **X. Ji**, H. Mattoussi, O. Steinbock*
“Magnetic and Cadmium Selenide-Doped Tubes Prepared under Non-equilibrium Conditions”
Poster Presentation on Gordon Research Conferences (Oscillations & Dynamic Instabilities in Chemical Systems), Colby College, Waterville, Maine, USA, Jul 15-20, 2012
- ◆ R. Makki, **X. Ji**, H. Mattoussi, O. Steinbock*
“Silica Tubes with Tunable Magnetic and Optical Properties Synthesized under Actively Controlled Growth Dynamics”
Poster Presentation on 244th American Chemical Society National Meeting & Exposition, Philadelphia, Pennsylvania, USA, Aug 19-23, 2012
- ◆ F. Aldeek, H. Muhammed, G. Palui, **X. Ji**, N. Zhan, H. Mattoussi*
“One phase growth of highly fluorescent PEGylated and zwitterion functionalized gold nanoclusters”
Oral Presentation on 245th American Chemical Society National Meeting & Exposition, New Orleans, Louisiana, USA, Apr 7-11, 2013
- ◆ P. Xu, **X. Ji**, H. M. Yang, J. L. Qi, W. T. Zheng, V. Abetz, S. M. Jiang*
“Controllable fabrication of carbon nanotubes on catalysts derived from PS-b-P2VP block copolymer template and in situ synthesis of carbon nanotubes/Au nanoparticles composite materials”
Materials Chemistry and Physics, 119, 249–253 (2010)
- ◆ P. Xu, **X. Ji**, J. L. Qi, H. M. Yang, W. T. Zheng, V. Abetz, S. M. Jiang*
“Patterned Carbon Nanotubes Fabricated by the Combination of Microcontact Printing and Diblock Copolymer Micelles”
Journal of Nanoscience and Nanotechnology, 10, 508–513 (2010)
- ◆ P. Xu, **X. Ji**, V. Abetz, S.M. Jiang*, J.C. Shen,
“Tunable Morphologies of Rhenium Complex-containing Polystyrene-block-poly(2-vinylpyridine) Aggregates”
Journal of Polymer Science, Part B: Polymer Physics, Vol. 46, 2047 (2008)
- ◆ P. Xu, **X. Ji**, V. Abetz, S. M. Jiang*
“Micropatterning of Ag and Au Nanoparticles by Microcontact Printing and Block Copolymer Micelles”
Journal of Nanoscience and Nanotechnology, 11, 1135–1140 (2011)
- ◆ P. Xu, **X. Ji**, V. Abetz, S. M. Jiang*

Uniformly Gold Nanoparticles Derived from P2VP-b-PCHMA Block Copolymer Templates with Different Reduction Methods

Journal of Nanoscience and Nanotechnology, 11, 6973–6978 (2011)

◆ P. Xu, **X. Ji**, J.C. Shen, S.M. Jiang*

“Novel preparation of triblock copolymer-stabilized CdS nanoparticles and morphological transformation with the polymer aggregates”, (Mo-P-44) the 12th International Conference on Organized Molecular Films (LB-12), Kraków, Poland, July 1-5, 2007