

Tim Zhang

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Education

University of Michigan, Ann Arbor, MI 2012 – Present
Ph.D. Pre-Candidate, Department of Chemistry
Advisor: Dr. Stephen Maldonado

Duke University, Durham, NC 2008 - 2012
B.S. in Chemistry, with concentration in Biochemistry

- Certified by the American Chemical Society

Research Experience

Graduate Research

University of Michigan, Department of Chemistry 2013 – present
Advisor: Dr. Stephen Maldonado

- Synthesis of single crystalline germanium nanowire from microelectrodes
- Fabrication of platinum and gallium microelectrodes

University of Michigan, Department of Chemistry 2012
Advisor: Dr. Raoul Kopelman

- Characterization of Docetaxel-loaded nanoparticles in terms of particle size, zeta-potential, % drug loaded, and drug release.

Undergraduate Research

Duke University, Department of Chemistry 2010-2011
Advisor: Dr. Benjamin Wiley

- Synthesis of silver nanowire electrodes for solar cells and silver-coating copper nanowires for transparent, flexible electrodes

Awards

Hypercube Scholar Award 2012

Teaching Experience

Department of Chemistry, University of Michigan
Graduate Student Instructor 2012-2013

Course: Chemistry 211 – Investigations in Chemistry

- Development of proper laboratory and safety procedures

Publications

Yang, L.; **Zhang, T.**; Zhou, H.; Price, S.C.; Wiley, B.J.; You, W. Solution-Processed Flexible Polymer Solar Cells with Silver Nanowire Electrodes. *ACS Appl. Mater. Interfaces* **2011**, *3*, 4075-4084.

Zhu, Y.; Qin, Q.; Xu, F.; Fan, F.; Ding Y.; **Zhang, T.**; Wiley, B.J.; Wang, Z.L. Size effects on elasticity, yielding, and fracture of silver nanowires: In situ experiments. *Phys. Rev. B* **2012**, 045443.