

Yingjie Zhang

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CONTACT

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EDUCATION

University of California at Berkeley, Berkeley, CA, USA
PhD in Applied Science and Technology, 08/2010 – 05/2015 (expected), advisor: Prof. Miquel Salmeron

Nankai University, Tianjin, China
BS in Physics, 09/2006 – 06/2010
* GPA: 92.9/100 Rank: 1st in 157

Selected Awards & Honors

First-Class Prize for “100 Projects” of Creative Research for Undergraduates of Nankai University.
National Scholarship, 2009.
National Scholarship, 2008.
Second-class Prize at National English Contest for College Students (Non-English Major Category), 2008.
National Scholarship, 2007.
First-class Prize in Mathematics Competition for College Students in Tianjin (Science & Engineering Category), 2007.

RESEARCH EXPERIENCE

- | | |
|-----------------|---|
| 08/2010-Present | Charge Transport of Organic Molecules and Inorganic Nanoparticles
Imaging charge transport of organic molecules and inorganic nanoparticles by Scanning Probe Microscopy on a co-planar field effect transistor platform
Lawrence Berkeley National Lab
Advisor: Prof. Miquel Salmeron
Collaborators: Prof. Paul Alivisatos's group, Prof. Ting Xu's group |
| 02/2010-05/2010 | Si/Ge Nanowire Growth
Growth, SEM and TEM characterization of Si/Ge nanowire heterojunctions
Institute of Physics, Chinese Academy of Sciences
Advisor: Dr. Guangyu Zhang |
| 06/2008-01/2010 | Surface Plasmon and Molecular Fluorescence
Numerical simulation of the influence of metallic nanostructures (nanoparticles and thin films) on molecular fluorescence
Nankai University
Advisor: Prof. Feng Song |

01/2009-01/2010

Neutrino and Dark Matter Detection

Numerical simulation and data analysis of neutrino events and dark matter detection using GEANT4

Nankai University

Advisor: Prof. Ye Xu

PUBLICATION

1. **Yingjie Zhang**, Ruoyang Zhang, Qingru Wang, Zhishuai Zhang, Haibo Zhu, Jiadong Liu, Feng Song, Shanxin Lin, and Edwin Yue Bun Pun, "Fluorescence enhancement of quantum emitters with different energy systems near a single spherical metal nanoparticle," **Opt. Express**, 18, 4316-4328 (2010).
2. **Yingjie Zhang**, Ruoyang Zhang, Zhishuai Zhang, Haibo Zhu and Feng Song, "Surface polariton generation and fluorescence enhancement using a superlens," **J. Opt. Soc. Am. B**, 26, 2337-2341 (2009).
3. Ye Xu, Bin Wu, **Yingjie Zhang**, Zelong Liu, Haokai Sun and Danning Di, "Discrimination between neutrino events and backgrounds using pulse shape information in reactor neutrino experiments," **Nucl. Instr. and Meth. A**, 610, 590-596 (2009).

PRESENTATION

(*Contribution Talk*) "Enhancing fluorescence using a combined layer of metal and superlens", OSA-COS Topical Meeting on Applications of Optical Metamaterials (AOM), Nankai University, June 22-25, 2009.