

Yiping Zhao

A. Professional Preparation

Peking University, Peking, China	Electronics	B.S.	1991
Institute of Semiconductors, Chinese Academy of Sciences, Beijing, China	Physics	M.S.	1994
Rensselaer Polytechnic Institute, Troy, NY	Physics	Ph.D.	1999

B. Appointments

2007-	Associate Professor, Department of Physics and Astronomy, University of Georgia
2002-2007	Assistant Professor, Department of Physics and Astronomy, University of Georgia
2000-2002	Research Assistant Professor, Department of Physics, Rensselaer Polytechnic Institute
1999-2000	Research Scientist, Department of Physics, Rensselaer Polytechnic Institute, Troy, NY

C. Publications

Publications most closely to proposed project (selected from 97 publications)

1. Y. P. He and Y.-P. Zhao, "NIR laser induced photothermal coloration in $WO_3 \cdot H_2O$ nanoflakes," J. Phys. Chem. C, accepted
2. W. Smith, Z.-Y. Zhang, and Y.-P. Zhao, "Structural and optical characterization of WO_3 nanorods/films prepared by oblique angle deposition," J. Vac. Sci. Technol. B **25**, 1875-1881 (2007)
3. Y. He, J.-S. Wu, and Y.-P. Zhao, "Designing catalytic nanomotors by dynamic shadowing growth," Nano Letters **7**, 1369 - 1375 (2007)
4. Y. He, J. Fu, Y. Zhang, Y. Zhao, L. Zhang, A. Xia, and J. Cai, "Multilayered Si/Ni nanosprings and their magnetic properties," Small **3**, 153-160 (2007)
5. J. Song, U. Willer, J. Szarko, A. Caughey, S. Leone, S. H. Li, Y. P. Zhao, "Ultrafast upconversion probing of lasing dynamics in single ZnO nanowire lasers," J. Phys. Chem. C, accepted.
6. H.-H. Wang and Y.-P. Zhao, "Nanostructure evolution of $YBa_2Cu_3O_x$ thin films grown by pulsed-laser glancing-angle deposition," J. Vac. Sci. Technol. B **24**, 1230 (2006)
7. X.-J. Tang, G. -G. Zhang, and Y.-P. Zhao, "Electrochemical characterization of Silver nanorod electrodes prepared by oblique angle deposition," Nanotechnology **17**, 4439 – 4444 (2006)
8. J. M. Szarko, J. K. Song, C. W. Blackledge, I. Swart, S. R. Leone, S.-H. Li, and Y.-P. Zhao, "Optical injection probing of single ZnO tetrapod lasers," Phys. Chem. Lett. **404**, 171 (2005)
9. J. K. Song, J. M. Szarko, S. R. Leone, S. H. Li, and Y. P. Zhao, "Ultrafast carrier dynamics and wavelength-dependent lasing-time characteristics in single ZnO nanotetrapod and nanowire lasers," J. Phys. Chem. B **109**, 15749 (2005)
10. S. B. Chaney, S. Shanmukh, R. A. Dluhy, and Y.-P. Zhao, "Randomly aligned silver nanorod arrays produce high sensitivity SERS substrates," Appl. Phys. Lett. **87**, 031908 (2005)

D. Synergistic Activities

Supervised 16 REU students during the past eleven years

Member of Advisory Committees for Center for Ultrastructural Research (2006- present), and Nanoscale Science and Engineering Center at UGA (2005-present)

Set up the first microfabrication facility at UGA, and developed new freshman seminar course on nanobiotechnology for undergraduate (offered in Fall'04)

Served as a panelist for two NSF NIRT review committees (2004), and one NSF CAREER review committee (2005).

Co-organized the Upstate New York Vacuum Society Symposium 2002 (UNYVAC NANOTECH 2002), the 2nd Annual University of Georgia Engineering Conference (Oct. 2005), organized the Nanotechnology section for the 58th ACS Southeast Regional meeting'06

Served as meeting section chairs for UNYVAC'2002 (August 2002), ICCE-11(August 2004),5th Georgia Tech Conference on Nanoscience and Nanotechnology (Nov. 2004), APS'06 (March 2006), 58th ACS Southeast Regional meeting'06 (November 2006), MRS Fall Meeting (November 2006)

Served as a judge for MRS Graduate Student Award (2006, Boston)

E. Collaborators

University of Georgia:

William M. Dennis
Yao-Wen Huang
Guigen Zhang

W. Kaasalita
Richard S. Meltzer
Ralph A. Tripp

David P. Landau
William M. Yen
Richard A. Dluhy

Others:

Stephen Leon
Weili Zhang
Jin J. Zngang
Wei Chen
M. D. McCluskey

Department of Chemistry, UC-Berkley.
Oklahoma State University
University of California – Santa Crus
Nomadics
Washington State University

F. Graduate and Postdoctoral Advisors

Graduate advisors: G.-C. Wang and T.-M. Lu, Department of Physics, Applied Physics, and Astronomy, Rensselaer Polytechnic Institute

Postdoctoral advisors: G.-C. Wang and T.-M. Lu, Department of Physics, Applied Physics, and Astronomy, Rensselaer Polytechnic Institute

G. Personal

Postdoctoral Associates: Dr. Y.-P. He, Dr. Slade Jokela

Graduate Students: J.-G. Fan'02, Z.-Y. Zhang'04, J.-X. Fu'04, Wilson Smith'05, Y.-J. Liu'06, Justin Abell'07, and John Gibbs'07

Undergraduate Students: Chris Hoffman, Will Verdecchia, and Drew Collins

H. Past members

Postdoctoral Associates: Dr. Z.-Z. Wu, Dr. H.-H. Wang, and Dr. X.-F. Zhu

Visiting Scholar: Mr. S.-H. Li

Graduate Students: X.-J. Tang'03, S. Chaney'03, and R. Law'04

Undergraduate Students: Wade Bowie, Billy Thomsen, Matt Nicholson, Matt Rudy, Patrick Lee, Layne Bradley, Sita Damaraju, Robert Cunningham, Galvin Butler, Robert Blackwell, and Stewart Chen

High School Students: Shannon Chen, Christopher Horn, Andrew Dluhy, and Brandon Lou