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Academic Appointments

2006-present Assistant Professor, Department of Physics, University of South Florida

2004-2006 Research Associate, Nanotech Institute, University of Texas at Dallas
Richardson, Texas. Sponsor: Prof. A. Zakhidov

1992- 1998 Lecturer, Department of Mechanical Engineering,
Chong-Qing Institute of Communication Technology, China

Education

1983- 1987 Shi-Chuan University, BS degree in Physics (1987)

1987-1990 Institute of Solid State Physics of the Chinese Academy of Science
MS degree in theoretical Condensed Matters Physics (1990)

1998-2004 University of Utah, PhD in experimental Condensed Matters Physics (2004)

Academic Awards and Honors

2000-2001 Teaching Assistant Award, University of Utah

Professional Activities and Affiliations

Journal editor: Member of the journal editorial board for *The Open Physical Chemistry Journal*.

Performance (2007~)

Ad Hoc Reviewer: Journals & Grants

Advanced Functional Materials

Applied Physics Letters

Journal of Material Research

Journal of Physical Chemistry B

Materials Today and Nano Today

Organic Photovoltaics

Solar Energy Materials & Solar Cells

U.S. Civilian Research and Development Foundation Cooperative Grants Program

U.S. Department of Energy Basic Energy Science program

Conference organizer

Co-organizer of International Advisory Committee of the 1st Topical Meeting on Spins in Organic Semiconductors (SPINOR2009) to be held in Salt Lake City, Utah, USA, February 2009.

Professional Membership

- APS (American Physical Society)
- MRS (Material Research Society)
- SPIE (The International Society for Optical Engineering)

Publications in Peer-reviewed Journals

Year 2000

1. Österbacka R, An CP, Jiang XM, Vardeny ZV (2000). *Two-dimensional electronic excitations in self-assembled conjugated polymer nanocrystals*. **Science**, 287, 839.

Year 2001

2. Frolov SV, Kloc CH, Batlogg B, Wohlgenannt M, Jiang XM, Vardeny ZV (2001). *Excitation dynamics in Single molecular crystals of α -hexathiophene from femtoseconds to millisecond*. **Phys. Rev. B** 63, 205203-1.
3. Korovyanko OJ, Österbacka R, Jiang XM, Vardeny ZV, Janssen RAJ (2001). *Photoexcitation dynamics in regioregular and regiorandom polythiophene films*, **Phys. Rev. B** 64, 235122-1.
4. Jiang XM, An CP, Österbacka R, Vardeny ZV (2001). *FTIR studies of charged photoexcitations in regio-regular and regio-random poly(3-alkylthiophene) films*. **Synth. Met**, 116, 203.
5. Wohlgenannt M, Jiang XM, Vardeny ZV, Frolov SV, Kloc C, Batlogg B (2001). *Hexathiophene single crystals: luminescence and magnetic resonance*. **Synth. Met**, 119, 647.

Year 2002

6. X.M. Jiang, R. Österbacka, O.J. Korovyanko, C.P. An, B. Horovitz, R.A.J. Janssen and Z.V. Vardeny (2002). *Spectroscopic studies of Photoexcitations in regioregular and regiorandom Polythiophene Films*. **Adv. Funct. Mater**, 12(9), 587-597.
7. Wohlgenannt M, Jiang XM, Vardeny ZV, Janssen RAJ (2002). *Conjugation-length dependence of spin-dependent Exciton Formation Rates in π -conjugated oligomers and polymer*. **Phys. Rev. Lett**, 88, 197401-1.
8. Österbacka R, Jiang XM, An CP, Horovitz B, Vardeny ZV (2002). *Photoinduced quantum interference anti-resonances in π -conjugated polymer*. **Phys. Rev. Lett**, 88, 226401-1.

Year 2003

9. Jiang XM, Wu CC, Wohlgenannt M, Huang WY, Kwei TK, Okamoto Y, & Vardeny ZV (2003). *Morphology-dependent optical properties of substituted Poly (p-phenylene-ethynylene) (PPE) films.* **Physica B**, 338, 235-239.
10. Wohlgenannt M., Jiang X.M. and Vardeny Z.V. (2003). *Spin-dependent exciton formation rates in π -conjugated oligomers and polymers,* **Physica B**, 338, 318-322.

Year 2004

11. M. Wohlgenannt, X.M. Jiang, Z.V.Vardeny (2004), *Confined and delocalized polarons in π -conjugated oligomers and polymers: A study of the effective conjugation length,* **Phys. Rev. B.**, 69, 241204 (R).

Year 2005

12. V. Burtman, A. S. Ndobe, X. Jiang and Z. V. Vardeny (2005). *Single molecule electrical transport using self-assembled-monolayers,* ICSM-2004 special issue of **Synth. Metals**, 154, 329-332.
13. X. Jiang, S.B. Lee, A.A. Zakhidov, R.D. Schaller, J.M. Pietryga, V.I. Klimov (2005). *Nanocomposite Solar Cells Based on Conjugated Polymers and PbSe Quantum Dots,* **Proc. Of SPIE**, 5938 (2005), 59381F.
14. M. Wohlgenannt, Z.V. Vardeny, J. Shi, T.L. Francis, X.M. Jiang, Ö. Mermer, G. Veeraraghavan, D. Wu and Z.H. Xiong (2005), *Spin and magnetic field effects in organic semiconductor devices.* **IEE Proc.-Circuits Devices Syst.** 152, No. 4, 385-39.

Year 2006

15. R. Ulbricht, X. Jiang, S.B. Lee, M. Zhang, S. Fang, B.H. Baughman and A. A. Zakhidov (2006), *Polymeric Solar Cells with oriented Strong Transparent Carbon Nanotube Anode,* **Phys. Stat. Sol. B.**, 243, No. 13, 3528-32.

Year 2007

16. X. Jiang, R.D. Schaller, S.B. Lee, J.M. Pietryga, V.I. Klimov and A.A. Zakhidov (2007). *PbSe Nanocrystal/Conducting Polymer Solar Cells with 2 Microns Infrared Response,* **J. of Material Research**, 22, No. 8, 2204-2210.
17. Ross Ulbricht, Sergey B. Lee, Xiaomei Jiang, Kanzan Inoue, Mei Zhang, Shaoli Fang, Ray H. Baughman, Anvar A. Zakhidov (2007), *Transparent carbon nanotube sheets as 3-D charge collectors in organic solar cells,* **Solar Energy Materials & Solar Cells** 91, 416–419.

Year 2008

18. J. Zhang and X. Jiang, *Confinement-dependent below-gap state in PbS Quantum Dots Films probed by cw Photoinduced Absorption,* **Journal of Phys. Chem. B Letters** 112, 9557 (2008).
19. J. Zhang, X. Jiang (2008), *Steady State Photoinduced Absorption of PbS Quantum Dots Film,* **Appl. Phys. Lett.**, 92, 14118 (2008).

20. X. Jiang, R. Österbacka, and Z. V. Vardeny (2008). *Optical and Transport Studies of Poly(3-hexylthiophene); Nanomorphology Dependence*, *Encyclopedia of Nanoscience and Nanotechnology (second edition)*, American Scientific Publishers, publication in process.

Submitted:

21. Cheng Zhang, Taina Matos, Rui Li, Eric Annih, and Sam-Shajing Sun; J. Zhang and X. Jiang, *Synthesis and Characterization of Fully Regioregular Head-to-Tail Poly(3-Dodecyl-2,5-Thienylenevinylene) for Opto-Electronic Applications*, submitted, (2008).
22. J. Lewis, J. Zhang and X. Jiang, *Fabrication of organic solar array for applications in microelectromechanical systems*, submitted, (2008).

Collaborators in the past four years*

1. Dr. R. Österbacka, Department of Physics, Åbo Akademi University, Finland
2. Drs. V.I. Klimov, J.M. Pietryga, Richard Schaller, Chemical Division, Los Alamos National Laboratory
3. Dr. M. Wolghgant, Department of Physics, University of Iowa
4. Dr. Sergey Lee, Plextronics, Inc.
5. Dr. S. Sun, Chemistry Department, Norfolk State University
6. Drs. P. Mukherjee, S. Witanachchi, Department of Physics, University of South Florida
7. Dr. M. Zhang, Industrial Management Department, Florida State University
8. Drs. B.H. Baughman, S. Fang, Anvar Zakhidov, M. Zhang, Nanotech Institute, University of Texas at Dallas

* There were no co-editors in the past two years.

Thesis & Post-doc advisors

1. Thesis advisor: Dr. V. Vardeny, Department of Physics, University of Utah
2. Postdoc advisor: Dr. A. Zakhidov, Nanotech Institute, University of Texas at Dallas

Other personnel

Jason Lewis, graduate student
Yejiào Wang, graduate student
Sheng Wu, graduate student