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# Xiaoying Guo

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## Education

**Ph. D. candidate** Materials Science & Engineering Department, University of Illinois at Urbana-Champaign (UIUC), *Sep. 2003 – present*

**B.S. in materials physics** Materials Science & Engineering Department, University of Science & Technology of China (USTC), *Sep. 1998 - Jul. 2003*

Thesis: "The stability property of charge ordered state for  $\text{Sm}_{1-x}\text{Ca}_x\text{MnO}_3$  ( $0.4 \leq x \leq 0.85$ )"

## Research Experience

Professor Ralph G. Nuzzo group (UIUC), *Research Assistant*, Mar. 2006 – present

- Designing cheap solar cell concentrators with high efficiency by using PDMS
- Printing micro-structured semiconductor devices and studying the fundamental physical properties.

Professor Paul W. Bohn group (UIUC), *Research Assistant*, Nov. 2003 – Mar. 2006

- Investigating the optical properties of wide band-gap porous GaN and its applications in optical, chemical and bio-sensing based on the Surface Enhanced Raman Scattering (SERS) and enhanced UV photoconductivity

Professor Xiaoguang Li group, USTC

Undergraduate Research Assistant, Sep. 2001 – Jul. 2003

- High temperature superconductor and magnetic properties of Colossal Magnetoresistance (CMR) material

## Publications

1. M. A. Meitl, J. H. Ahn, **X. Y. Guo**, G. Wilson, J. S. Moore, R. G. Nuzzo, J. A. Rogers, "Elastomeric thin film adhesives for high-performance electronics." (in preparation)
2. **X. Y. Guo**, T. L. Williamson, P. W. Bohn, "Enhanced ultraviolet photoconductivity in porous GaN prepared by metal-assisted electroless etching." (Accepted)
3. D. J. Diaz, T. L. Williamson, **X. Y. Guo**, P. W. Bohn, "Electroless deposition for Au and Pt for metallization of intrapore space in GaN." *Thin Solid Films* **514** (1-2), 120-126, 2006.
4. T. L. Williamson, **X. Y. Guo**, A. Zukoski, A. Sood, D. J. Diaz, P. W. Bohn, "Porous GaN as a template to produce Surface-enhanced Raman scattering-active surfaces," *J. Phys. Chem. B* **109**, 20186-20191, 2005.
5. T. Qian, G. Li, Q. Han, **X. Y. Guo**, Y. Liu, J. F. Qu, X. G. Li, "Transport and stability properties of charge ordered state for  $\text{Sm}_{1-x}\text{Ca}_x\text{MnO}_3$  ( $0.4 \leq x \leq 0.8$ )," *J. Appl. Phys.* **95** (3), 977-981, 2004.