

§ CURRICULUM VITAE§

Lan Zhang

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§ Fields of Interest: Nanotechnology

§ Skills:

Be good at:

- VLSI failure analysis
- TEM sample preparation (semiconductors, thin films, superconductors etc.)
- TEM/EDS operation (JEOL 2000FX and JEOL 2010FX): high resolution TEM images, composition analysis
- SEM sample preparation and SEM/EDS operation (JEOL JSM 6330F, Hitachi-900, 4500, 4700, 5000)

Be familiar with:

- VLSI processing
- Microprobe (WDS) analysis, XRD

§ Current Employment:

Working in Joint SEM lab of IBM and Infineon Technology (Siemens Microelectronics)

DDA (DRAM Development Alliance) Department

§ Education:

University of Houston, Texas Center for Superconductivity

Master in Materials Science, 3.9/4.0 GPA, 1999

Thesis Title: TEM study of Ag/BSCCO interface in Ag-sheathed multifilament Bi-2223 tapes

University of Florida

PhD candidate in Materials Science and Engineering, 4.0/4.0 GPA, 1997-1998

Project: Polymer-derived SiC-based fibers with high tensile strength and improved creep resistance

Tsinghua University

B.E. in Materials Science and Engineering, 1990-1995, 3.8/4.0 cumulative GPA

§ Academic Employment:

- Graduate Research Assistant, Texas Center for Superconductivity at the University of Houston, 1999-2000
- Graduate Teaching Assistant, course name: *Materials Science*, Materials Engineering Department, University of Houston, 1998-1999
- Graduate Research Assistant, MS&E Dept., University of Florida, 1997-1998

§ Awards:

- Award for academic achievement by an international student, 1998, University of Florida

§ Publications:

- *Role of Ag in the alignment of Bi(Pb)-Sr-Ca-Cu-O near the Ag/ Bi(Pb)-Sr-Ca-Cu-O interface in Ag-sheathed multifilamentary Bi(Pb)-2223 tapes*, **L. Zhang**, M. Mironova, and K. Salama, V. Selvamanickam, Submitted to **Philosophical Magazine Letters**.
- *TEM study of Ag/BSCCO interface in Ag-sheathed multifilament Bi-2223 tapes*, **L. Zhang**, M. Mironova, and K. Salama, accepted by **Physica C**.
- *Dynamic study and "Two-step-process" of substrate step preparation for high- T_c SQUIDS*, Hong-Ying Zhai, **Lan Zhang**, Wei-Kan Chu, Feng-Zhi Xu, and Qian-Shen Yang, **Appl. Phys. Lett.** **76**, 1312(2000).
- *Heat treatment studies on Bi-2212/Ag tapes fabricated using PIT technique*, K. Thangaraj, A.N. Iyer, **L. Zhang**, and K. Salama, **Superconductor Science and Technology**, **13 No 7 (July 2000) 1035-1041** .
- *Polymer-derived SiC-based fibers with high tensile strength and improved creep resistance*, Michael D. Sacks, Gary W. Scheiffele, **Lan Zhang**, and Yunpeng Yang, the 22nd Annual Cocoa Beach Conference and Exposition on Composites, advanced ceramics, materials and microstructures, Cocoa Beach, FL, Jan. 20-24, 1998.