

Jun Yi

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Gender: Male

Research Interests

1. Nanomechanics of metallic glasses.
2. Fracture behavior of metallic glasses

Publications:

1. Jun Yi, X. X. Xia, D. Q. Zhao, M. X. Pan, H. Y. Bai, and W. H. Wang, Micro- and nanoscale metallic glassy fibers, *Adv. Eng. Mater.* 12, 1117 (2010).
2. Jun Yi, D. Q. Zhao, M. X. Pan, H. Y. Bai, and W. H. Wang, Piezoresistance effect of metallic glassy fibers, *Appl. Phys. Lett.*, 98, 241917 (2011).
3. Jun Yi, L. S. Huo, D. Q. Zhao, M. X. Pan, H. Y. Bai, W. H. Wang, Toward ideal electrical resistance strain gauge using bare and single straight strand metallic glassy fiber, *Sci. China-Phys. Mech. Astron.* 55, 609 (2012).
4. D. Meng, J. Yi, D. Q. Zhao, D. W. Ding, H. Y. Bai, M. X. Pan, W. H. Wang, Tantalum based bulk metallic glasses, *J. Non-Cryst. Solids* 357, 1787 (2011).
5. M. B. Tang, J. Yi, J. Q. Wang, W. H. Wang, J. T. Zhao, Low expansion in $[(\text{Fe}_{0.9}\text{Co}_{0.1})_{0.72}\text{B}_{0.24}\text{Nb}_{0.04}]_{95.5}\text{Y}_{4.5}$ amorphous alloy, *J. non-cryst. Solids.* 358, 470 (2012)
6. J. Ma, J. Yi, D. Q. Zhao, M. X. Pan, W. H. Wang, Large size metallic glass gratings by embossing. *J. Appl. Phys.* 112, 064505 (2012)
7. Y. T. Wang, Z. D. Liu, J. Yi, Z. Y. Xue, The magnetocaloric effect of the Gd-based amorphous composite with Gd nanocrystals. *Acta phys. Sin.* 61, 056102 (2012).

Patents:

1. Jun Yi, J. Q. Wang, D. Q. Zhao, D. W. Ding, H. Y. Bai, M. X. Pan, W. H. Wang, Fabrication method and instrument of micro- and nanoscale metallic glassy fibers, Chinese Patent No. 201010241012.5
2. Jun Yi, D. Q. Zhao, W. H. Wang, Electrical resistance strain gauge using metallic glassy fibre as strain sensing material, Chinese Patent No. 201110218951.2.

Education and Experience

Post Doc, Materials Science and Engineering (2012.4 to now)

Department of Materials science and engineering, Case Western Reserve University, OH, USA

Advisor: John Lewandowski

Ph. D., Condensed Matter Physics (2008.9 to 2012.3)

Institute of Physics, Chinese Academy of Sciences, Beijing, P.R. China

Advisor: W. H. Wang

Dissertation: Micro- and nanoscale metallic glassy fibers.

Master, Materials Science (2005.9-2008.7)

School of materials and metallurgy, Northeastern University, Shenyang, P. R. China

Thesis: Kinetics of Crystallization and Soft Magnetic Properties of Fe-Co-Nd-Nb-B Amorphous Alloys

B. S., Engineering of Metallic Materials (2001.9-2005.7)

North University of China, Taiyuan, P. R. China