

EDUCATION

- The University of Tennessee – Knoxville (UTK)** Knoxville, USA
Ph. D., Materials Science and Engineering 2006
Dissertation: Thermal Stability of Binary Cr-Cr₃Si and Ternary NiAl-Mo Eutectic Alloys
- Indian Institute of Technology - Madras (IIT Madras)** Chennai, India
Bachelor of Technology, Metallurgical Engineering 2002

RESEARCH INTERESTS

Mechanical Behavior, Physical Metallurgy, Thermodynamics and Kinetics, Phase transformations. Ceramics. Covers wide ranging topics – Advanced Materials, High Entropy Alloys, Bulk Metallic Glasses, High Temperature Materials, In Situ Composites, Intermetallics, Refractory Metals and Alloys, Multi-scale Structure and Property Characterization of Materials

PUBLICATIONS

- A. Gali, E. P. George “Tensile Properties of high- and medium- entropy alloys,” *Intermetallics*, **39**, 74-78, 2013
- P. Sudharshan Phani, K. E. Johanns, G. Duscher, A. Gali, E. P. George, and G. M. Pharr “STEM observations of defects in as-grown and pre-strained Mo alloy fibers,” *Acta Materialia*, **59**, 2172-2179, 2011
- Y. Liu, C. T. Liu, A. Gali, A. Inoue, M. W. Chen “ Evolution of shear bands and its correlation with mechanical response of a ductile Zr₅₅Pd₁₀Cu₂₀Ni₅Al₁₀ bulk metallic glass” *Intermetallics* **18**, 1455-1464, 2010
- T Haenschke, A Gali, M Heilmaier, M Krüger, H Bei, EP George “Synthesis and Characterization of lamellar and fiber-reinforced NiAl-Mo and NiAl-Cr,” *Journal of Physics:Conference Series*, **240**, 012063, 2010
- A. Gali, H. Bei, and E. P. George, “Effects of boron on the microstructure and thermal stability of directionally solidified NiAl-Mo eutectic,” *Acta Materialia*, **58**, 421-428, 2010
- G. Chen, H. Bei, Y. Cao, A. Gali, C. T. Liu, and E. P. George, “Enhanced plasticity in a Zr-based bulk metallic glass composite with in-situ formed intermetallic phases,” *Applied Physics Letters*, **95**, 1, 2009
- A. Gali, H. Bei, and E. P. George, “Thermal stability of Cr-Cr₃Si eutectic microstructures,” *Acta Materialia*, **57**, 3823-3829, 2009
- A. Gali, H. Bei and E. P. George “Effect of processing and microalloying elements on the thermal stability of Cr-Cr₃Si and NiAl-Mo eutectic alloys,” *Advanced Intermetallic-Based Alloys, MRS Symposium Proceedings*, **Vol. 980**, 345-350
- A. Gali, C. A. Carmichael, and E. P. George, “Effect of Grain Size on the Low Temperature Tensile Impact Ductility of DOP-26 Iridium,” report to DOE-HQ, September 2007