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主要研究方向

非晶合金材料

纳米结构材料

轻质结构材料

粉末冶金技术与材料

凝固理论与技术

社会兼职

中国材料研究学会青年委员会理事

中国材料研究学会高级会员

美国材料研究学会会员

日本金属学会会员

主要学术成果

1. F.F. Wu, W. Zheng, S.D. Wu, Z.F. Zhang, **J. Shen**. Shear stability of metallic glasses. *Int. J. Plasticity*. 2011, 27, 560.
2. F.M. Zhang, **J. Shen**, J.F. Sun, Y. Q. Zhu, G. Wang, G. McCartney. Conversion of carbon nanotubes to diamond by spark plasma sintering. *Carbon* 2005, 43, 1254.
3. F. Zhang, **J. Shen**, J. Sun, D. G. McCartney. Direct Synthesis of Diamond from Low Purity Carbon Nanotubes. *Carbon*. 2006, 44, 3113.
4. Y.J. Sun, D.D. Qu, Y.J. Huang, K.-D. Liss, X.S. Wei, D.W. Xing, **J. Shen**. Zr-Cu-Ni-Al bulk metallic glasses with superhigh glass-forming ability. *Acta Mater.* 2009, 57, 1290.
5. M. Yan, J. Zou, and **J. Shen**. Effect of over-doped yttrium on the microstructure, mechanical properties and thermal properties of a Zr-based metallic glass. *Acta Mater.* 2006, 54, 3627.
6. **J. Shen**, Q.J. Chen, J.F. Sun, H.B. Fan, G. Wang. Exceptionally high glass-forming ability of an FeCoCrMoCBy alloy. *Appl. Phys. Lett.* 2005, 86, 151907.
7. **J. Shen**, W.Z. Liang, J.F. Sun. Formation of nano-waves in compressive fracture of a less-brittle bulk metallic glass. *Appl. Phys. Lett.* 2006, 89, 121908.
8. Y. J. Huang, **J. Shen**, J. F. Sun. Bulk metallic glasses: Smaller is softer. *Appl. Phys. Lett.* 2007, 90, 081919.
9. K.X. Liu, W.D. Liu, J.T. Wang, H.H. Yan, X.J. Li, Y.J. Huang, X.S. Wei, **J. Shen**. Atomic-scale Bonding of Bulk Metallic Glass to Crystalline Aluminium. *Appl. Phys. Lett.* 2008, 93, 081918.
10. **J. Shen**, F.M. Zhang, J. F. Sun, Y. Q. Zhu, D. G. McCartney. Spark plasma sintering assisted diamond formation from carbon nanotubes at very low pressure. *Nanotechnology*. 2006, 17, 2187.