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主要研究方向

- (1) 喷射成形工艺基础及新材料;
- (2) 镁铝合金大型复杂构件精密铸造
- (3) 非晶及软磁微丝成形与应用基础

社会兼职

北京航空材料研究院 先进高温结构材料国防科技重点实验室 客座研究员

主要学术成果

1. Shuling Zhang, Dawei Xing, Huan Wang, Jianfei Sun. Influence of DC-Joule heat on Giant Magneto Impedance of Co-based melt extraction wires. *Advanced Materials Research*. 2009,79-82, 1615-1618.
2. Diao Xiaogang, Ning Zhiliang, Cao Fuyang, Sun Jianfei. Effectt of Ce on Graphite Nodule Count and Size Distribution in Ductile Iorn. *International Journal of Modern Physics B*. 2009, 23(6-7). 1853-1860\
3. Zhang Lunyong, Xing Dawei, Sun Jianfei. Calculating the activation energy of amorphous phase using the Lambert W function. *J Therm Anal Calorim*. DOI 10.1007/s10973-009-0264-4
4. Huang, YJ; Shen, J; Sun, JF.. Bulk metallic glasses: Smaller is softer. *APPLIED PHYSICS LETTERS* 2007, 90 (8): art. no.-081919
5. Ning ZL, Wang GJ, Cao FY , Sun JF, Du JF Tensile deformation of a Mg-2.54Nd-0.26Zn-0.32Zr alloy at elevated temperature *JOURNAL OF MATERIALS SCIENCE* 2009, 44 (16) 4264-4269
6. J.F. Sun, Y.J. Huang, J. Shen, G. Wang and D.G. McCartney Superplastic formability of a Zr-Ti-Ni-Cu-Be bulk metallic glass *Journal of Alloys and Compounds* 2006,415: 198-203
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8. G. Wang, J. Shen, J.F. Sun, B.D. Zhou, J.D. FitzGerald, D.J. Llewellyn, Z.H. Stachurski. Isothermal Nanocrystallization Behavior of $Zr_{41.25}Ti_{13.75}Ni_{10}Cu_{12.5}Be_{22.5}$ Bulk Metallic Glass in the Supercooled Liquid Region. *Scripta Materialia*. v 53, n 6, September, 2005, p 641-645
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专利

1. 孙剑飞;邢大伟;沈军;王刚. 大过冷液相区与高热稳定性的多组元大块非晶合金材料. 公开号 CN1418979
2. 孙剑飞、邢大伟、曹福洋、王欢、张伦勇、张树玲. 制取金属非晶丝的方法及其装置. 公开号 CN101519758
3. 孙剑飞、曹福洋、沈军、李庆春. 镁合金用复合坩埚材料的制备方法. 公开号 1327181
4. 曹福洋; 孙剑飞; 宁志良. 适于制备大尺寸喷射沉积坯锭的机械摆动式雾化导液系统. 公开号 CN101024247