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主要研究方向

粉末冶金新材料制备及成形；

金属塑性加工；

塑性加工过程数值模拟。

社会兼职

主要学术成果

1. Liu Jinglei, Liu Zuyan, et al. Study on the density of the Cu-15wt%Cr composite powders synthesized by mechanical milling. *Material Science and Technology*. 2003. 11(2): 136-139
2. H.A.Aglan, Z.Y.Liu, M.F.Hassan. Mechanical and fracture behavior of bainitic rail steel. *J. of Materials Processing Technology*. 2004, 151(1-3): 268-274.
3. Jing-Lei Liu, Er-De Wang, Zu-Yan Liu, et al. Phases interface in deformation processed Cu-15wt.%Cr composite prepared by elemental powders. *Materials Science and Engineering A*. 2004, A382: 301-304.
4. 王宏, 刘祖岩等. 镁晶格间隙及柱状晶粒储氢的理论分析. *稀有金属材料与工程*. 2005, 34(Suppl.2): 124-126
5. 刘祖岩, 王尔德. 挤压方法的分类及侧向挤压的特点. *哈尔滨工业大学学报*. 2007, 39(3): 409-411
6. 刘祖岩, 刘钢, 梁书锦. AZ31镁合金应力应变关系的测定与四维描述. *稀有金属材料与工程*. 2007, 36(Suppl.3): 304-307
7. Zuyan Liu, Zhenglong Lei, et al. Research on hydrogen storage properties of Mg-3Ni-2MnO₂(wt.%) milled with nickel powders of different particle sizes. *Journal of Alloys and Compounds*. 431(2007)212-216.
8. S. J. Liang, Z. Y. Liu, et al. Microstructure and Mechanical Properties of Mg-Al-Zn Alloy Deformed by Cold Extrusion. *Materials Letters*. 2008, 62: 3051-3054.
9. S. J. Liang, Z. Y. Liu, E. D. Wang. Microstructure and Mechanical Properties of Mg-Al-Zn Alloy Sheet Fabricated by Cold Extrusion. *Materials Letters*. 2008, 62: 4009-4011.
10. Daren Li, Zuyan Liu, et al. The influence of mechanical milling on the properties of W-40wt.%Cu composite produced by hot extrusion. *Journal of Alloys and Compounds*. 2008, 462:94-98
11. Daren Li, Zuyan Liu, et al. Research on the Densification of W-40wt.%Cu by Liquid Sintering and Hot-hydrostatic Extrusion. *International Journal of Refractory Metals and Hard Materials*. 2008, 26(4):286-289
12. S. J. Liang, Z. Y. Liu, et al. Simulation of Extrusion Process of AZ31 Magnesium Alloy. *Materials Science and Engineering A*. 2009, 499: 221-224.
13. S. J. Liang, H. F. Sun, Z. Y. Liu, et al. Mechanical Properties and Texture Evolution during Rolling Process of an AZ31 Mg Alloy. *Journal of Alloys and Compounds*. 2009, 472: 127-132.
14. 李达人, 刘祖岩. W-40%Cu热加工摩擦因子与换热系数测定. *粉末冶金技术*. 2009, 27(3):178-181
15. Daren Li, Zuyan Liu, et al. Numerical simulation of hot hydrostatic extrusion of W-40wt.%Cu. *Materials Science and Engineering A*. 2009, 499(1-2):118-122
16. 苏新艳, 刘祖岩等. W-40%Cu合金应力-应变曲线的测定与描述. *粉末冶金技术*. 2009, 27(2):91-94