



## 胡連喜

工學博士

教授；博士生導師

+86-451-86418613

hulx@hit.edu.cn

### 主要研究方向

1. 難變形材料塑性加工
2. 粉末冶金材料與工藝
3. 机械合金化與納米晶材料
4. 高性能稀土永磁材料

### 社會兼職

中國機械工程學會 粉末冶金分會 副秘書長/常務理事

中國金屬學會 粉末冶金分會 理事

中國鋼構協會 粉末冶金分會 納米粉末及碳基金屬粉末委員會 副主任委員

《粉末冶金技術》期刊編委會 委員

《粉末冶金工業》期刊編委會 委員

### 主要學術成果

- [1] Qing Miao, **Lianxi Hu**, Xin Wang, Erde Wang. Grain growth kinetics of a fine-grained AZ31 magnesium alloy produced by hot rolling. **Journal of Alloys and Compounds**, 493 (2010) : 87-90
- [2] **Hu Lianxi**, Li Yuping, Yuan Yuan. Mechanically activated disproportionation and microstructure nanocrystallization of a Nd<sub>14</sub>Fe<sub>66.9</sub>Co<sub>11</sub>B<sub>7</sub>Zr<sub>0.1</sub>Ga<sub>1.0</sub> permanent magnetic alloy. **Journal of Nanoscience and Nanotechnology**, 9 (2009) : 4404-4409
- [3] Qing Miao, **Lianxi Hu**, and Wang Erde, et al. Microstructure and mechanical properties of AZ31 magnesium alloy sheet by hot rolling. **International Journal of Modern Physics B**, 23(6-7) (2009): 984-989
- [4] MIAO Qing, **HU Lian-xi**, SUN Hong-fei, WANG Er-de. Grain refining and property improvement of AZ31 Mg alloy by hot rolling. **Trans. Nonferrous Met. Soc. China**, 2009, 19 (2): s326-330
- [5] YUAN Yuan, WANG Heng, **HU Lian-xi**, SUN Hong-fei, FANG Wen-bin. Hydriding and microstructure nanocrystallization of ZK60 Mg alloy by reaction milling in hydrogen **Trans. Nonferrous Met. Soc. China**, 2009, 19 (2): s363-367
- [6] **Hu Lianxi**, Li Yuping, Yuan Yuan, et al. Desorption-recombination and microstructure change of a disproportionated nano-structured NdFeB alloy. **Journal of Materials Research**, 23 (2) (2008): 427-434
- [7] **Hu Lianxi**, A. J. Williams, I. R. Harris. Effect of microstructural orientation on in situ electrical resistance monitoring during S-HDDR processing of a Nd<sub>16</sub>Fe<sub>76</sub>B<sub>8</sub> alloy. **Journal of Alloys and Compounds**, 460 (2008) : 232-236
- [8] **Hu Lianxi**, Wu Yang, Yuan Yuan, et al. Microstructure nanocrystallization of a Mg-3 wt.%Al-1 wt.%Zn alloy by mechanically assisted hydriding-dehydriding. **Materials Letters**, 62 (2008): 2984-2987
- [9] Wenxiong He, Erde Wang, **Lianxi Hu**, et al. Effect of extrusion on microstructure and properties of a submicron crystalline Cu-5 wt.%Cr alloy. **Journal of Materials Processing Technology**, 208 (2008) : 205-210
- [10] **Hu Lianxi**, Wang Erde, Guo Bin, Shi Gang. Microstructure and magnetic properties of Nd<sub>2</sub>Fe<sub>24</sub>B/α-Fe nanocomposite prepared by HDDR combined with mechanical milling. **Materials Science Forum**, 434-536 (2007): 1349-1352
- [11] Wang Erde, **Hu Lianxi**. Nanocrystalline and ultrafine grained materials by mechanical alloying. **Materials Science Forum**, 434-536 (2007): 209-212
- [12] Shi Gang, **Hu Lianxi**, Wang Erde. Preparation, microstructure, and magnetic properties of a nanocrystalline Nd<sub>12</sub>Fe<sub>82</sub>B<sub>6</sub> alloy by HDDR combined with mechanical milling. **Journal of Magnetism and Magnetic Materials**, 301 (2006): 319-324
- [13] Yu Yang, **Hu Lianxi**, Wang Erde. Microstructure and mechanical properties of a hot hydrostatically extruded 93W-4.9Ni-2.1Fe alloy, **Materials Science and Engineering A**, 435-436 (2006) : 620-624
- [14] **Hu Lianxi**, Li Yuping, Wang Erde, Yu Yang, Ultrafine grained structure and mechanical properties of a LY12 Al alloy prepared by repetitive upsetting-extrusion, **Materials Science and Engineering A**, 422 (2006): 327-332
- [15] **Hu Lianxi**, Yuan Yuan, Luo Shoujing, Fabrication, microstructure and mechanical properties of a SiCw/ZK51A Mg composite by semi-solid extrusion directly following liquid infiltration, **Solid State Phenomena**, 116-117 (2006): 354-357
- [16] Shi Gang, **Hu Lianxi**, Guo Bin, Sun Xiudong, Wang Erde. Nd<sub>2</sub>Fe<sub>14</sub>B/α-Fe nanocomposites prepared by mechanically activated disproportionation and subsequent desorption -recombination, **Materials Science Forum**, 475-479 (2005): 2185-2188
- [17] Fang Wenbin, **Hu Lianxi**, He Wenxiong, Wang Erde, Microstructure and properties of a TiAl alloy prepared by mechanical milling and subsequent reactive sintering, **Materials Science and Engineering A**, 403 (2005) : 186-190
- [18] **Hu Lianxi**, Wang Erde, Hydrogen generation via hydrolysis of nanocrystalline MgH<sub>2</sub> and MgH<sub>2</sub>-based composites, **Trans. Nonferrous Met. Soc. China**, 2005, 15 (5): 965-969