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主要研究方向

金属及其复合材料的腐蚀与防护
金属基复合材料的界面设计与阻尼机制
镁及其合金表面生物涂层的制备及表征

社会兼职

中国体视学会金相与显微分析分会 理事
黑龙江省表面工程学会 常务理事

主要学术成果

1. **J. Hu**, J.X. Zhang, C.W. Tang and W.C. Ren. Effect of annealing treatment on microstructure and tensile strength of alumina borate whisker-reinforced Al-Mg composite. *Mater. Sci. Engin. A* 2006,4, 94 (SCI, 影响因子: 1.806)
2. **J. Hu**, X.H. Zhao, S.W. Tang and M.R. Sun. Corrosion Protection of Aluminum Borate Whisker Reinforced AA6061 Composite by Cerium Oxide-Based Conversion Coating. *Surface Coatings and Technology*. 2006, 201, 3814 (SCI, 影响因子: 1.86)
3. **J. Hu**, P.L. Wu L.C. Kong and G. Liu. The effect of YAG laser surface treatment on corrosion resistance of $Al_{18}B_4O_{33}W/2024Al$ composite *Materials Letters* 2007, 61, 5181 (SCI, 影响因子: 1.748)
4. **J. Hu**, L.C. Kong and G. Liu Structure and hardness of surface of $Al_{18}B_4O_{33}W/Al$ composite by YAG laser melting. *Mater. Sci. Engin.* 2008, 486, 80 (SCI, 影响因子: 1.806)
5. **J. Hu**, Y.B. Li, H.L. Wang, W.C. Ren. Improvement of the corrosion resistance of Cr-N coated aluminum matrix composite by magnetron sputter. *Materials Letters*. 2008, 62, 1715 (SCI, 影响因子: 1.748)
6. **J. Hu**, XF Wang, SW Tang. A study of damping capacities in pure aluminum matrix composites reinforced with SnO_2 -coated and uncoated alumina borate whiskers. *Comp.Sci.Technol.* 2008, 68, 2297 (SCI, 影响因子: 2.533)
7. **J. Hu**, SW Tang. ZY Zhang. Microstructure and formation mechanism of cerium conversion coating on alumina borate whisker-reinforced aluminum alloy 6061 composite. *Corrosion Science* 2008, 50, 3185 (SCI, 影响因子: 2.293)
8. L. Wang, **J. Hu**, Z.J. Li, W.D. Fei. Fracture behavior of aluminum borate whisker-reinforced aluminum alloy 6061 composite. *Mater. Sci. Engin* 2008, 497, 358 (SCI, 影响因子: 1.806)
9. **J. Hu**, C. Wang, W.C. Ren, S. Zhang, F. Liu. Microstructure evolution and corrosion mechanism of dicalcium phosphate dihydrate coating on magnesium alloy in simulated body fluid. *Mater. Chem. Phys.* 2010,119, 294 (SCI, 影响因子: 1.799)
10. **J. Hu**, X.F. Wang, G.Y. Liu. Effect of SnO_2 coating on the damping capacity and tensile property of alumina borate whisker-reinforced aluminum composite at room temperature *Mater. Sci. Engin* 2010, A527,657 (SCI, 影响因子: 1.806)
11. **J. Hu**, XF Wang, ZZ. Zheng. Damping Mechanisms in Alumina Borate Whisker-Reinforced Aluminum Matrix Composites with or without SnO_2 Coatings. *J App Physic* 2010; 107: 023513 (SCI, 影响因子: 2.201)
12. 胡津, 孔令超. 激光处理提高硼酸铝晶须/铝复合材料表面耐磨耐蚀方法。申请号 200410044044.0 CN 1281768 C
13. 胡津, 赵雪会. 提高轻金属及其复合材料表面耐蚀性稀土转化膜方法。申请号 2005100104410 CN 100357490 C