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主要研究方向

高比强合金及其复合材料的制备、微观结构、力学性能及变形与断裂；
材料组织性能的计算机模拟及预测。

社会兼职

中国机械工程学会材料分会有色金属专业委员会委员

国家自然科学基金材料科学与工程学部通讯评委

主要学术成果

1. T. Sun, Q.Wang, D.L. Sun, et al. Study on dry sliding friction and wear properties of Ti₂AlN/TiAl composite, *Wear*, 2010, 268:693~699(SCI, 影响因子: 1.857)
2. Q. Wang, D.L. Sun, X.L. Han, W.G. Wang, Study on Thermal Hydrogen Processing and Hot Deformation Behavior of a Near Alpha Titanium Alloy, *Acta Metallurgica Sinica(English Letters)*2010, 23 (2) : (SCI, 影响因子: 0.5)
3. 王清, 那玥, 孙东立. 氢处理对 TA15 钛合金焊缝组织和性能的影响, *焊接学报*, 2010, 31 (10): 17-20 (EI 收录)
4. X.L. HAN, Q.WANG, D.L.SUN, et al. First-principles study of hydrogen diffusion in alpha Ti. *Journal of International Hydrogen Energy*, 2009,34:3983~3987(SCI, 影响因子: 3.478)
5. 韩秀丽, 王清, 孙东立. 氢对钛晶体弹性模量的第一原理研究, *材料科学与工艺*, 2009, 17 (3): 163-168(EI 收录)
6. M.GENG, Q.WANG, T.SUN, D.L.SUN*. Study on Dry friction and wear properties of TiAl alloy, *Journal of Wuhan University of Technology-Mater. Sci. Ed. (Materials Science Edition)*, 2009, 24(Suppl):179-182 (SCI, 影响因子: 0.36)
7. 韩秀丽, 王清, 孙东立. 钛-氢体系晶体结构和能量的第一原理计算. *中国有色金属学报*, 2008, 18 (3): 523-528(EI 收录)
8. Q.Wang,T. Wu, D. L. Sun. Prediction of flow stress in Ti-6Al-4V alloy with hydrogen at high temperature using artificial neural network. *Materials Science Forum*,2007, 539-543: 3696-3701(SCI, 影响因子: 1.38)
9. X.L. Han, Q.Wang, D.L. Sun and H.X. Zhang(2007):First-principles study of the diffusion characteristics in the alpha Ti -H system. *Scripta Materialia*. 2007,56:77-80(SCI, 影响因子: 2.22)
10. Q.Wang, J.Lai, D.L. Sun. Artificial neural network models for predicting flow stress and microstructure evolution of a hydrogenized titanium alloy. *Key Engineering Materials*,2007, 353-358, 541-544 (SCI, 影响因子: 1.22)
11. Z.H.LI, Q.WANG, D.L.SUN. Characteristic of deformation of Ti-6Al-4V alloy with hydrogen at high temperature. *Key Engineering Materials*, 2007,. 353-358:683-686(SCI, 影响因子: 1.22)
12. Q.Wang, D.L.Sun. Study of hydrogen treatment for improving strength and plasticity of Ti-6Al-4V alloy. *Effects of Hydrogen on Materials-Proceedings of the 2008 International Hydrogen Conference*, 2009.07, pp235-242
13. Q.Wang, D.L.Sun, Z.H.Li and G.H.Wu: Compression Characteristic and Tensile Property in an ($\alpha + \beta$) Type Titanium Alloy at High Temperature, *Key Engineering Materials*, 2005, 297-300:1439-1445(SCI, 影响因子: 1.22)
14. D.L. Sun, Q. Wang, X. Han, et al. Influence of hydrogen on tensile property of Ti-6Al-4V, *Key Engineering Materials*, 2005, 297-300:1133-1138(SCI, 影响因子: 1.22)
15. 龚沛, 孙东立. 氢对热变形TC4钛合金显微组织的影响, *机械工程材料*, 2007,31 (6): 69-72(EI收录)