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主要研究方向

- 1、新材料、特种材料激光焊接与连接
- 2、激光加工过程数值模拟
- 3、激光快速成型技术

社会兼职

中国光学学会激光加工专业委员会委员

主要学术成果

1. Liqun Li, Dejian Liu, Yanbin Chen, et al.. Electron microscopy study of reaction layers between single-crystal WC particle and Ti-6Al-4V after laser melt injection[J]. Acta Materialia, 2009, 57: 3606~3614 (SCI, 影响因子 3.76)
2. Dejian Liu, Yanbin chen, Liqun Li and Fuquan Li. In situ investigation of fracture behavior in monocrystalline WC_p-reinforced Ti-6Al-4V metal matrix composites produced by laser melt injection[J]. Scripta Materialia, 2008, 59: 91~94 (SCI, 影响因子 2.949)
3. Shuhai Chen, Liqun Li, Yanbin Chen, et al.. Joining mechanism of Ti/Al dissimilar alloys during laser welding-brazing process[J]. Journal of Alloys and Compounds, 2011, 509(3):891~898 (SCI, 影响因子 2.135)
4. Yanbin Chen, Dejian Liu, Liqun Li, Fuquan Li. Microstructure evolution of single crystal WC_p reinforced Ti-6Al-4V metal matrix composites produced at different cooling rates. Journal of Alloys and Compounds[J], 2009, 484(1-2): 108–112 (SCI, 影响因子 2.135)
5. Dejian Liu, Liqun Li, Fuquan Li, et al.. WC_p/Fe metal matrix composites produced by laser melt injection[J]. Surface & Coating Technology, 2008, 202: 1771~1777 (影响因子 1.793)
6. Yanbin Chen, Shuhai Chen, Liqun Li. Influence of interfacial reaction layer morphologies on crack initiation and propagation in Ti/Al joint by laser welding-brazing[J]. Materials and Design, 2010, 31: 227-233 (影响因子 1.518)
7. W.Tao, L.Q.Li, Y.B.Chen, L.Wu. Joint strength and failure mechanism of laser spot weld of mild steel sheets under lap shear loading[J]. Science and Technology of Welding and Joining. 2008, 13(8): 754-759 (影响因子 1.372)
8. Y. B. Chen, Y. G. Miao, L.Q. Li, L. Wu.. Arc characteristics of laser-TIG double-side welding [J]. Science and Technology of Welding and Joining. 2008, 13(5): 438-444 (影响因子 1.372)
9. Chen Yanbin, Lei Zhenglong, Li Liqun, Wu Lin. Experimental study on welding characteristics of CO₂ laser-TIG hybrid welding process[J]. Science and Technology of Welding and Joining. 2006, 11(4): 403~411 (影响因子 1.372)
10. Chen yanbin, Chen shuhai, Li liqun. Effects of heat input on microstructure and mechanical property of Al/Ti joints by rectangular spot laser welding-brazing method [J]. International Journal of Advanced Manufacturing Technology. 2009, 44(3-4): 265-272 (影响因子 1.128)