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主要研究方向

- 1、激光与材料相互作用行为
- 2、激光及其复合热源焊接方法
- 3、激光焊接质量传感与控制技术

社会兼职

- 1、中国焊接学会第八届理事会常务理事，热切割专业委员会主任
- 2、中国光学学会激光加工委员会常委委员

主要学术成果

1. **陈彦宾**编著，现代激光焊接技术，科学出版社，2005.10
2. 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)
3. Dejian Liu, **Yanbin chen**, Liqun Li and Fuquan Li. In situ investigation of fracture behavior in monocrystalline WCp-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)
4. **Yanbin Chen**, Dejian Liu, Liqun Li, Fuquan Li. Microstructure evolution of single crystal WCp 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. **Yanbin Chen**, Dejian Liu, Fuquan Li, Liqun Li. WCp/Ti-6Al-4V graded metal matrix composites layer produced by laser melt injection[J]. Surface and coatings technology. 2008, 202: 4880~4887 (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. **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)
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)