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主要研究方向

(1) 高效化电弧焊技术机理及应用；

- a) A-TIG 焊
- b) 超声-电弧复合
- c) 异种金属熔钎焊
- d) 窄间隙 GMAW 焊
- e) VPPA 焊

(2) 焊接过程质量控制

主要包括焊接过程的传感、质量检测、自适应控制及过程监测等。

社会兼职

中国焊接学会熔焊工艺及设备专业委员会委员

主要学术成果

- 1 杨春利, 林三宝. 电弧焊基础, 哈尔滨: 哈尔滨工业大学出版社, 2003
- 2 采用外加声压方式的电弧焊方法及其装置. 200810064506.3 发明专利授权
- 3 一种用于镍基高温合金 TIG 焊的活性剂及其使用方法 200810064546.8, 发明专利授权
- 4 一种适用于铝合金/不锈钢异种金属电弧熔-钎焊的钎剂 200810209813.6, 发明专利授权
- 5 旋转电弧窄间隙焊炬 200710144746.X, 发明专利授权
- 6 一种焊丝和其应用于铝及铝合金与钢焊接的方法 200810063869.5, 发明专利授权
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