



中国精品科技期刊
RCCSE中国权威学术期刊

ISSN0253-360X
CODEN HHPAD2

焊接学报
二〇一七年

第三十八卷

第十期

焊接学报

TRANSACTIONS OF THE CHINA WELDING INSTITUTION



中国机械工程学会主办



第38卷 第10期
Vol. 38 No. 10
2017

焊接学报

第38卷 第10期

2017年10月25日出版

目 次

硬质合金与钢电子束焊接接头缺陷及断裂分析	陈国庆,柳峻鹏,张秉刚,等	(1)
氟化物 A-TIG 焊接 Ti6Al4V 的电弧行为	高晓刚,董俊慧,韩旭,等	(6)
HR3C/T91 异种耐热钢焊接接头界面蠕变失效有限元模拟	张建强,张国栋,郭嘉琳	(11)
高能电子束活性区空间能量密度测量系统	沈春龙,彭勇,周琦,等	(16)
基于电弧增材制造的截面扫描轨迹规划	孙清洁,桑海波,刘一搏,等	(21)
静止轴肩搅拌摩擦焊接 6005 铝合金的力学和疲劳性能	张坤,方远方,栾国红,等	(25)
基于 X 射线高速摄像水下焊接熔滴过渡分析	杜永鹏,郭宁,冯吉才	(29)
轮式机器人 90°折线角焊缝跟踪运动动力学分析	周依霖,张华,王帅	(33)
SiO ₂ 陶瓷-TC4 接头陶瓷侧的界面行为	刘多,牛红伟,宋晓国,等	(39)
连续脉冲 GTAW 熔池振荡频率的检测及分析	李春凯,石玕,朱明,等	(43)
单枪耦合电弧 AA-TIG 焊	张建晓,樊丁,黄勇	(47)
6005A 铝合金激光-TIG 复合热源填丝焊接技术	杨大伟,陈树海,黄继华,等	(51)
摇动电弧窄间隙 GMAW 焊温度场数值分析模型	胥国祥,潘海潮,王加友	(55)
异种不等厚铝合金电阻点焊分流的数值模拟	张禹,毕敬,罗震,等	(61)
双电弧集成冷丝复合焊中熔滴过渡及焊缝成形机理	向婷,李桓,韦辉亮,等	(66)
温度梯度作用下的 Ni/Sn/Cu 焊点界面反应分析	漆琳,卫国强,刘恒林	(71)
药芯组成及工艺参数对 ENiCrMo3T0-4 焊丝电弧稳定性的影响	王恒,栗卓新,李国栋,等	(75)
Sn-Ag 复合粉末低温过渡液相连接 Cu/Ag 异基金属	邵华凯,吴爱萍,包育典	(80)
316L 不锈钢与紫铜磁脉冲焊接组织性能分析	王卫东,秦钢林,邢淑清,等	(85)
TiSiC ₂ 基复合材料中第二相对抗氧化性能的影响	闫文青,张建强,刘升	(89)
极限温度下 CBGA 焊点热冲击疲劳寿命预测	田茹玉,王晨曦,田艳红,等	(93)
活性焊料 Sn3.5Ag4Ti(Ce,Ga) 与 GaAs 基板的低温焊接	吴志中,李国元,成兰仙,等	(98)
电流作用下 Cu/Sn-45Bi/Cu 焊点的组织演变	郭沁涵,赵振江,沈春龙	(103)
稀土 LaNd 对 Zn9.3Al7Cu 钎料腐蚀性能影响	张绍祺,闫焉服,李涛	(107)
残余应力对薄板激光搭接接头力学性能的影响	梁行,姜云禄,陈怀宁,等	(112)
全自动管板焊接视觉传感图像处理	金泽石,张承浩,李海超,等	(117)
铜铝钎焊接头腐蚀机理分析	殷祚炷,孙凤莲	(121)
Ni-Cu 低温 TLP 扩散连接接头组织及性能	董红杰,赵洪运,宋晓国,等	(125)
英文摘要	(I)	

[期刊基本参数] CN23-1178/TG * 1980 * m * A4 * 128 * zh * P * ¥15.00 * 5800 * 28 * 2017-10

TRANSACTIONS OF THE CHINA WELDING INSTITUTION

Vol. 38 No. 10 October 2017

CONTENTS

- Research on microstructure and crack of EBW of cemented carbide and 40CR steel CHEN Guoqing, LIU Junpeng, ZHANG Binggang, et al (1)
- Arc behavior of fluoride effects in the A TIG welding of Ti6Al4V GAO Xiaogang, DONG Junhui, HAN Xu, et al (6)
- Numerical simulation on interfacial creep failure of dissimilar welded joint between HR3C and T91 heat-resistant steels ZHANG Jianqiang, ZHANG Guodong, GUO Jialin (11)
- High energy space density measurement system of active zone for electron beam SHEN Chunlong, PENG Yong, ZHOU Qi, et al (16)
- Research on deposited layer scanning trace skanning based on rapid-prototyping using CMT technology SUN Qingjie, SANG Haibo, LIU Yibo, et al (21)
- Mechanical and fatigue property of stationary shoulder friction stir welding AA6005 ZHANG Kun, FANG Yuanfang, LUAN Guohong , et al (25)
- Analysis on metal transfer in underwater wet welding based on X-ray high-speed photography DU Yongpeng, GUO Ning, FENG Jicai (29)
- Kinematic and dynamic analysis of wheeled mobile robot for right-angle weld tracking ZHOU Yilin, ZHANG Hua, WANG Kai (33)
- Interfacial behavior of SiO₂ ceramic/TC4 brazed joint LIU Duo, NIU Hongwei, SONG Xiaoguo, et al (39)
- Detection and analysis of weld pool oscillation frequency for continuous P-GTAW LI Chankai, SHI Yu, ZHU Ming, et al (43)
- Single welding torch coupled arc AA-TIG welding ZHANG Jianxi, FAN Ding, HUANG Yong (47)
- Laser-TIG arc hybrid welding technology of 6005A aluminum alloy with filler wire YANG Dawei , CHEN Shihai, HUANG Jihua , et al (51)
- Numerical analysis model of temperature field in swing-arc narrow gap GMAW XU Guoxiang, PAN Haichao, WANG Jiayou (55)
- Numerical simulation of shunting in resistance spot welding for dissimilar unequal-thickness aluminum alloys ZHANG Yu, BI Jing, LUO Zhixue , et al (61)
- The metal transfer and weld formation of twin-arc integrated cold wire hybrid welding XIANG Ting, LI Han, WEI Huiliang , et al (66)
- Analysis on interfacial reaction of Ni/Sn/Cu solder joint under temperature gradient QI Lin, WEI Guoqiang, LIU Henglin (71)
- Effect of flux-cored ingredients and welding parameters on arc stability of ENiCrMo3T0-4 wire WANG Heng, LI Zhuoxin, LI Guodong, et al (75)
- Cu/Ag system low-temperature transient liquid phase bonding with Sn-Ag mixed powders SHAO Huakai, WU Aiping, BAO Yudian (80)
- Analysis of the micro-structure and properties of 316L stainless steel and copper magnetic pulse welding WANG Weidong, QIN Ganglin, XING Shuqing, et al (85)
- Effect of second phases on oxidation resistance of Ti₃SiC₂ based composites YAN Wenqing, ZHANG Jianqiang, LIU Sheng (89)
- Life prediction of CBGA soldered joints under extreme temperature thermal shock TIAN Ruyu, WANG Chenxi, TIAN Yanhong, et al (93)
- Soldering between active solder Sn3.5Ag4Ti(Ce,Ga) and GaAs substrate at low temperature WU Zhizhong, LI Guoyuan, CHENG Lanxian, et al (98)
- Microstructure evolution of Cu/Sn-45Bi/Cu solder joint under the effect of current GUO Qinhan, ZHAO Zhenjiang, SHEN Chunlong (103)
- Impact of rare earth LaNd on corrosion property of Zn9.3Al7Cu solder ZHANG Shaoqi, YAN Yanfu, LI Tao (107)
- Effect of residual stress on mechanical properties of sheet laser overlap welding joints LIANG Hang, JIANG Yunlu, CHEN Huaining, et al (112)
- Visual sensing based image processing of auto tube-sheet welding JIN Zeshi, ZHANG Chenghao, LI Haichao, et al (117)
- Corrosion mechanism analysis of copper and aluminum brazed joints YIN Zuozhu, SUN Fenglian (121)
- Microstructures and properties of joints formed by Ni-Cu TLP bonding process at low temperature DONG Hongjie, ZHAO Hongyun, SONG Xiaoguo, et al (125)
- 万方数据