

1956年创刊

EI 收录期刊

中文核心期刊

ISSN 1001-4381

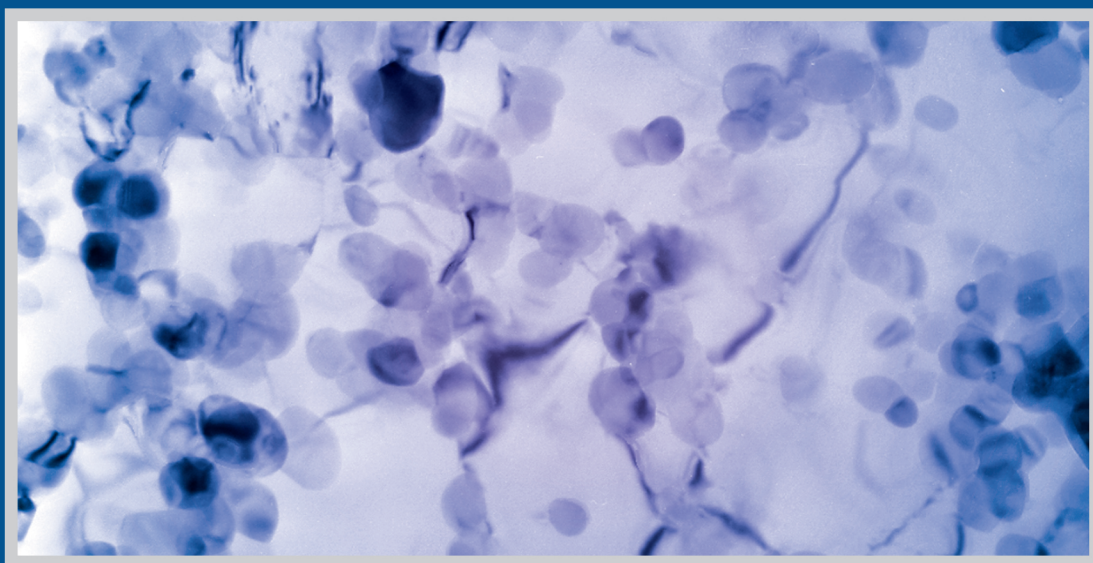
CODEN CAGOEW

材料工程 12

2018

JOURNAL OF MATERIALS ENGINEERING

第46卷 | Vol.46



ISSN 1001-4381



万方数据



中国航发北京航空材料研究院 主办

2018 年第 46 卷第 12 期 (总第 427 期)

目 次

综 述

- 氧化物/氧化物陶瓷基复合材料及其制备工艺研究进展 杨 瑞, 齐 哲, 杨金华, 焦 健 (1)
- 脉冲 TIG 增材制造技术研究进展 郭龙龙, 贺雨田, 鞠录岩, 吴泽兵, 张 勇, 吕澜涛, 王文娟 (10)
- 石墨烯增强金属基复合材料的制备及应用研究进展 王剑桥, 雷卫宁, 薛子明, 钱海峰, 刘维桥 (18)
- 颗粒增强金属基复合材料的强化机理研究现状 叶想平, 李英雷, 翁继东, 蔡灵仓, 刘仓理 (28)
- 先进复合材料结构胶接体系的研发与应用 乔海涛, 梁 滨, 张军营, 刘清方, 陆 松, 赵升龙, 张瑞秀 (38)

研究论文

功能化氧化石墨烯改性双马树脂及其复合材料

..... 李 闯, 李 伟, 王明宇, 王柏臣, 冯博文, 李勃翰, 李 强 (48)

电子束辐照含铍聚碳硅烷制备含铍碳化硅纤维 朱文华, 岳建岭, 黄小忠, 王春齐, 胡思闽, 王 畅 (54)

航空碳纤维增强树脂基复合材料加筋壁板吸湿行为

..... 谭翔飞, 谭鹏达, 何宇廷, 冯 宇, 安 涛, 张天宇, 刘 凯 (61)

原位聚合改性纳米层状黏土/脂肪族聚酯嵌段共聚物复合材料的制备与性能

..... 毛 龙, 刘跃军, 姚进, 吴慧青, 白永康 (70)

Cr_3C_2 添加剂对 $\text{ZrB}_2\text{-SiC}$ 复合陶瓷性能的影响 李 麒, 喻 彪, 郭丰伟, 曹腊梅, 益小苏 (78)

喷雾干燥条件对合成纳/微结构 LiFePO_4/C 形貌及性能的影响

..... 吕奕菊, 谭家栩, 蒋世权, 文衍宣, 张淑芬 (85)

铜锌锡硫薄膜太阳能电池吸收层的银掺杂 李 桐, 张林睿, 杨炎翰, 张永哲, 宋雪梅, 汪 浩, 严 辉 (95)

基于 MIV 的聚碳酸酯大气老化影响因子权重分析 杨 斌, 李敬洋, 文 磊 (101)

硅溶胶改性水性丙烯酸树脂对镀锌三价铬钝化膜的封闭作用 孙 伟, 朱立群, 李卫平, 刘慧丛 (110)

氩气雾化 Ti-48Al 合金液滴的快速冷却和凝固组织

..... 鲍 颖, 骆 琳, 俞泽民, 杨冬野, 刘 娜, 张国庆, 孙剑飞 (117)

基体成分对 $\text{SiC}_p/\text{Al-Fe-V-Si}$ 复合材料显微组织与性能的影响

..... 贺毅强, 徐虎林, 钱晨晨, 丁云飞, 冯 文, 陈劲松, 李化强, 冯立超 (124)

回归时间对 7150 铝合金力学性能与组织的影响 张 研, 邓运来, 范世通, 龙 涛 (131)

塞棒材料对铝合金摩擦塞补焊接头组织及拉伸断裂行为的影响 杜 波, 杨新歧, 孙转平, 王东坡 (137)

激光沉积修复 TA15 钛合金微观组织及力学性能 邢如飞, 许星元, 黄双君, 王 磊, 周 松, 许 良 (144)

不同温度热暴露对铸造 TiAl 合金室温拉伸塑性的影响 王红卫, 朱春雷, 张 继, 曹 睿 (151)

激光重熔处理对铝合金微弧氧化膜组织与性能的影响

..... 唐仕光, 陈泉志, 蒋智秋, 童 庆, 董婉冰, 李伟洲 (157)

封面照片: 基体成分对 $\text{SiC}_p/\text{Al-Fe-V-Si}$ 复合材料显微组织与性能的影响 (见贺毅强等论文, 第 126 页图 2)

责任编辑 王 晶

CONTENTS

REVIEW

- Research Progress in Oxide/Oxide Ceramic Matrix Composites and Processing Technologies
..... YANG Rui,QI Zhe,YANG Jin-hua,JIAO Jian(1)
- Progress in Additive Manufacturing Technique Based on Pulsed TIG
..... GUO Long-long,HE Yu-tian,JU Lu-yan,WU Ze-bing,ZHANG Yong,LYU Lan-tao,WANG Wen-juan(10)
- Research Progress on Synthesis and Application of Graphene Reinforced Metal Matrix Composites
..... WANG Jian-qiao,LEI Wei-ning,XUE Zi-ming,QIAN Hai-feng,LIU Wei-qiao(18)
- Research Status on Strengthening Mechanism of Particle-reinforced Metal Matrix Composites
..... YE Xiang-ping,LI Ying-lei,WENG Ji-dong,CAI Ling-cang,LIU Cang-li(28)
- Development and Application of Adhesive Materials for Advanced Composite Bonding
..... QIAO Hai-tao,LIANG Bin,ZHANG Jun-ying,LIU Qing-fang,LU Song,ZHAO Sheng-long,ZHANG Rui-xiu(38)

RESEARCH ARTICLE

- Modification of Bismaleimide Resin and Its Composites by Using Functionalized Graphene Oxide
..... LI Chuang,LI Wei,WANG Ming-yu,WANG Bai-chen,FENG Bo-wen,LI Bo-han,LI Qiang(48)
- Synthesis of Silicon Carbide Fiber Containing Beryllium from Polyberylliumocarbosilane Using Electron Beam Irradiation
..... ZHU Wen-hua,YUE Jian-ling,HUANG Xiao-zhong,WANG Chun-qi,HU Si-min,WANG Chang(54)
- Moisture Behavior of Aeronautic Carbon Fiber Reinforced Resin Composite Stiffened Panel
..... TAN Xiang-fei,TAN Peng-da,HE Yu-ting,FENG Yu,AN Tao,ZHANG Tian-yu,LIU Kai(61)
- Synthesis and Properties of Aliphatic Polyester Block Copolymers Filled with Nano Layered Clay Prepared by *In-situ* Graft Polymerization
..... MAO Long,LIU Yue-jun,YAO Jin,WU Hui-qing,BAI Yong-kang(70)
- Effect of Cr_3C_2 Addition on Properties of ZrB_2 -SiC Ceramic
..... LI Qi,YU Biao,GUO Feng-wei,CAO La-mei,YI Xiao-su(78)
- Effects of Spray Drying Conditions on Morphology and Performance of Nano/Micro Structure LiFePO_4/C
..... LYU Yi-ju,TAN Jia-xu,JIANG Shi-quan,WEN Yan-xuan,ZHANG Shu-fen(85)
- Ag Incorporation in $\text{Cu}_2\text{ZnSnS}_4$ Thin Film Solar Cell Absorbed Layer
..... LI Tong,ZHANG Lin-rui,YANG Yan-han,ZHANG Yong-zhe,SONG Xue-mei,WANG Hao,YAN Hui(95)
- Weight Analysis of Atmospheric Aging of Polycarbonate Impact Factors Based on MIV Method
..... YANG Bin,LI Jing-yang,WEN Lei(101)
- Sealing Effects of Silica Sol Modified Waterborne Acrylic Resin on Chromium Trivalent Passivation Film of Galvanized Steel
..... SUN Wei,ZHU Li-qun,LI Wei-ping,LIU Hui-cong(110)
- Rapid Cooling and Solidification Microstructure of Argon Atomized Ti-48Al Alloy Droplets
..... BAO Ying,LUO Lin,YU Ze-min,YANG Dong-ye,LIU Na,ZHANG Guo-qing,SUN Jian-fei(117)
- Effects of Matrix Components on Microstructure and Properties of $\text{SiC}_p/\text{Al-Fe-V-Si}$ Composites
..... HE Yi-qiang,XU Hu-lin,QIAN Chen-chen,DING Yun-fei,FENG Wen,CHEN Jing-song,LI Hua-qiang,FENG Li-chao(124)
- Influence of Retrogression Time on Mechanical Properties and Microstructure of 7150 Aluminum Alloy
..... ZHANG Yan,DENG Yun-lai,FAN Shi-tong,LONG Tao(131)
- Effect of Plug Materials on Microstructure and Tensile Fracture Behavior of Aluminum Alloy Friction Plug Welds
..... DU Bo,YANG Xin-qi,SUN Zhuan-ping,WANG Dong-po(137)
- Microstructure and Mechanical Properties of Laser Deposition Repaired TA15 Titanium Alloy
..... XING Ru-fei,XU Xing-yuan,HUANG Shuang-jun,WANG Lei,ZHOU Song,XU Liang(144)
- Influence of Thermal Exposure at Different Temperatures on Room Temperature Tensile Ductility of Cast TiAl Alloy
..... WANG Hong-wei,ZHU Chun-lei,ZHANG Ji,CAO Rui(151)
- Effect of Laser Remelting Treatment on Microstructure and Properties of Aluminum Alloy Micro-arc Oxidation Coatings
..... TANG Shi-guang,CHEN Quan-zhi,JIANG Zhi-qiu,TONG Qing,DONG Wan-bing,LI Wei-zhou(157)