

1956年创刊

EI 收录期刊

中文核心期刊

ISSN 1001-4381

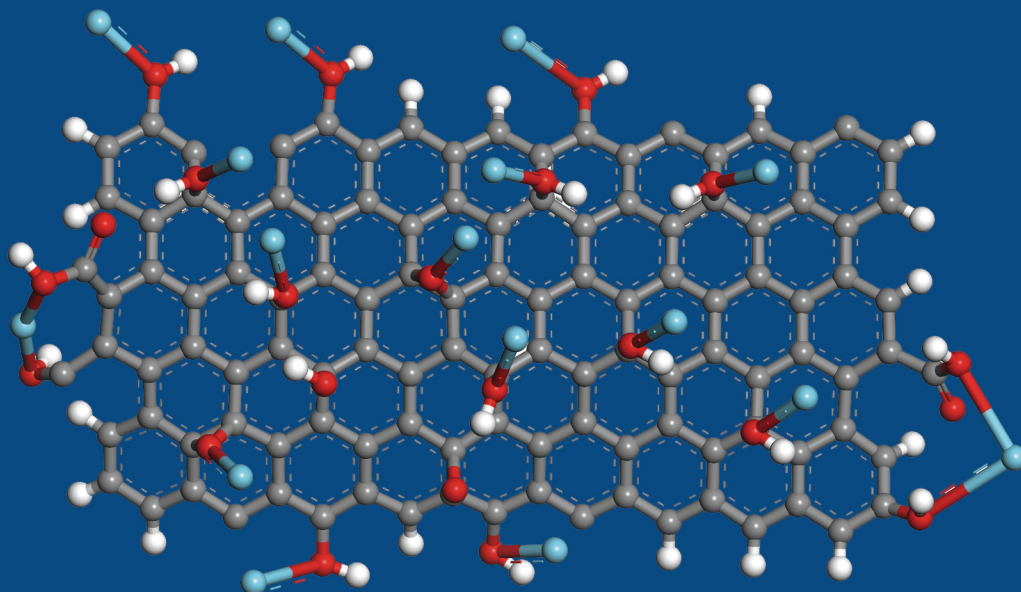
CODEN CAGOEW

材料工程

5 2018

JOURNAL OF MATERIALS ENGINEERING

第46卷 | Vol.46



ISSN 1001-4381



中国航发北京航空材料研究院 主办

万方数据

2018 年第 46 卷第 5 期 (总第 420 期)

目 次

石墨烯专栏

- 拉曼光谱表征石墨烯结构的研究进展 郝欢欢, 刘晶冰, 李坤威, 汪 浩, 严 辉 (1)
- 氧化石墨烯复合材料吸附铀的研究进展 刘红娟, 谢水波, 张希晨, 刘迎九, 曾涛涛 (11)
- 纳米氧化锌负载氧化石墨烯/环氧树脂复合材料性能研究 左银泽, 陈 亮, 朱 斌, 高延敏 (22)
- 氧化石墨烯表面稀土改性机理 王 莹, 李 勇, 朱 靖, 赵亚茹, 李 焕 (29)

综 述

- 600℃ 高温钛合金双性能整体叶盘锻件制备技术研究进展
..... 蔡建明, 田 丰, 刘 东, 李 娟, 弭光宝, 叶俊青 (36)
- 铝合金局部热处理技术及其在板材成形中的应用发展现状
..... 徐 勇, 靳鹏飞, 田亚强, 张士宏, 王礼良, 曾一畔 (44)
- 碳材料在染料敏化太阳能电池和钙钛矿太阳能电池对电极中的应用进展 张 晴, 黄其煜 (56)
- 形状记忆聚合物机理、表征与多形状记忆效应的研究进展 逢见光, 王 刚, 曲 明, 史新妍 (64)

研究论文

- 大尺寸 $\text{TiAl}/\text{Ti}_3\text{Al}$ 微叠层超薄板制备和力学性能 申造宇, 黄光宏, 何利民, 牟仁德, 李建平 (72)
- 热处理对激光熔覆钛基复合涂层组织和微动磨损性能的影响
..... 刘秀波, 周仲炎, 翟永杰, 乔世杰, 徐江宁, 罗迎社, 涂 溶 (79)
- 激光构筑槽棱与网格状结构超疏水耐腐蚀表面研究 李 晶, 赵世才, 杜 锋, 范凤玉, 潘理达, 于化东 (86)
- 耐腐蚀超疏水铜网的制备及其在油水分离中的应用 罗晓民, 魏梦媛, 曹 敏 (92)
- 金属镀层对铝/钢激光熔钎焊接头组织与性能的影响 黄健康, 王梓懿, 刘 宁, 余淑荣, 樊 丁 (99)
- 水导轴承等离子堆焊 Ni60 合金组织及其耐腐蚀性能
..... 邓德伟, 牛婷婷, 田 鑫, 刘海英, 孙 奇, 张 林 (106)
- $\text{Ni-Co}/\text{纳米 ZrO}_2$ 复合材料的电化学反应及摩擦磨损性能
..... 梁智鹏, 王一雍, 金 辉, 周新宇, 刘香琳 (112)
- 超音速火焰喷涂 WC-10Co-4Cr 涂层的微观组织与摩擦磨损性能
..... 杨伟华, 吴玉萍, 洪 晟, 李佳芸, 李柏涛 (120)
- 硫化铋微米花的制备及其光响应性能 田 玉, 丁滔滔, 朱小龙, 郑 广 (126)
- Co 元素掺杂对 CeO_2 基固态电解质导电行为的影响
..... 吴 闪, 朱延俊, 赵梦媛, 解 昊, 杨 星, 边凌峰, 孟 彬 (133)
- CeO_2 掺杂对 $\text{Pb}_{0.92}\text{Sr}_{0.06}\text{Ba}_{0.02}-(\text{Sb}_{2/3}\text{Mn}_{1/3})_{0.05}\text{Zr}_{0.48}\text{Ti}_{0.47}\text{O}_3$ 基压电陶瓷相结构及性能的影响
..... 徐腾威, 甘国友, 严继康, 李震宇, 郭根生, 易健宏 (139)
- 环境协调型 $\text{Ce-La}/\text{TiO}_2$ 复合材料的制备及光-湿-热性能 宗志芳, 杨 麟, 张 浩, 熊 磊 (145)
- SA508 Gr. 3 Cl. 1 钢的疲劳和高温拉伸性能 王 驰, 冉 广, 雷鹏辉, 黄金华 (151)

封面照片: 氧化石墨烯表面稀土改性机理 (见王莹等论文, 第 34 页图 11)

责任编辑 寇凤梅

CONTENTS

GRAPHENE COLUMN

- Research Progress on Characterization of Graphene Structure by Raman Spectroscopy
..... HAO Huan-huan, LIU Jing-bing, LI Kun-wei, WANG Hao, YAN Hui(1)
- Research Progress of Graphene Oxide Composite Materials for Uranium Adsorption
..... LIU Hong-juan, XIE Shui-bo, ZHANG Xi-chen, LIU Ying-jiu, ZENG Tao-tao(11)
- Properties of Graphene Oxide Loaded by Nano-ZnO/Epoxy Resin Composites
..... ZUO Yin-ze, CHEN Liang, ZHU Bin, GAO Yan-min(22)
- Surface Modification Mechanism of Graphene Oxide by Adding Rare Earths
..... WANG Ying, LI Yong, ZHU Jing, ZHAO Ya-ru, LI Huan(29)

REVIEW

- Research Progress in Manufacturing Technology of 600℃ High Temperature Titanium Alloy Dual
Property Blisk Forging CAI Jian-ming, TIAN Feng, LIU Dong, LI Juan, MI Guang-bao, YE Jun-qing(36)
- Development Status of Tailored Heat Treatment Technology and Its Application on Sheet Metal
Forming of Aluminum Alloys
..... XU Yong, JIN Peng-fei, TIAN Ya-qiang, ZHANG Shi-hong, WANG Li-liang, ZENG Yi-pan(44)
- Novel Progress on Application of Carbon Materials as Counter Electrode in Dye-sensitized Solar
Cells and Perovskite Solar Cells ZHANG Qing, HUANG Qi-yu(56)
- Progress on Mechanism, Characterization and Multiple Shape Memory Effect of Shape Memory
Polymer PANG Jian-guang, WANG Gang, QU Ming, SHI Xin-yan(64)

RESEARCH ARTICLE

- Preparation and Mechanical Properties of Large-sized TiAl/Ti₃Al Microlaminated Thin Sheets
..... SHEN Zao-yu, HUANG Guang-hong, HE Li-min, MU Ren-de, LI Jian-ping(72)
- Effect of Heat Treatment on Microstructure and Fretting Wear Resistance of Laser Clad
Ti-matrix Composite Coatings
..... LIU Xiu-bo, ZHOU Zhong-yan, ZHAI Yong-jie, QIAO Shi-jie, XU Jiang-ning, LUO Ying-she, TU Rong(79)
- Fabrication of Groove and Grid Structure Surface with Superhydrophobicity and Corrosion
Resistance by Laser LI Jing, ZHAO Shi-cai, DU Feng, FAN Feng-yu, PAN Li-da, YU Hua-dong(86)
- Preparation of Superhydrophobic Cu Mesh with Corrosion Resistance and Applications in Oil-water
Separation LUO Xiao-min, WEI Meng-yuan, CAO Min(92)
- Effect of Metal Coating on Microstructure and Properties of Aluminum/Steel Laser Welding-Brazing Joint
..... HUANG Jian-kang, WANG Zi-yi, LIU Ning, YU Shu-rong, FAN Ding(99)
- Microstructure and Corrosion Resistance of Ni60 Alloy Overlay Deposited by PTA Method on Water
Guide Bearing DENG De-wei, NIU Ting-ting, TIAN Xin, LIU Hai-ying, SUN Qi, ZHANG Lin(106)
- Electrochemical Behavior and Friction and Wear Properties of Ni-Co/Nano ZrO₂ Composites
..... LIANG Zhi-peng, WANG Yi-yong, JIN Hui, ZHOU Xin-yu, LIU Xiang-lin(112)
- Microstructure, Friction and Wear Properties of HVOF Sprayed WC-10Co-4Cr Coating
..... YANG Wei-hua, WU Yu-ping, HONG Sheng, LI Jia-hui, LI Bo-tao(120)
- Synthesis and High Photoresponse Property of Bi₂S₃ Microflowers
..... TIAN Yu, DING Tao-tao, ZHU Xiao-long, ZHENG Guang(126)
- Effects of Co-dopings on Electrical Behaviors of CeO₂-based Solid Electrolyte
..... WU Shan, ZHU Yan-jun, ZHAO Meng-yuan, XIE Hao, YANG Xing, BIAN Ling-feng, MENG Bin(133)
- Effects of CeO₂ Addition on Phase Structure and Properties of Pb_{0.92}Sr_{0.06}Ba_{0.02}(Sb_{2/3}Mn_{1/3})_{0.05}Zr_{0.48}Ti_{0.47}O₃
Piezoelectric Ceramics
..... XU Teng-wei, GAN Guo-you, YAN Ji-kang, LI Zhen-yu, GUO Gen-sheng, YI Jian-hong(139)
- Preparation of Environment Coordination Ce-La/TiO₂ Composites and Photocatalytic-moisture-heat
Properties ZONG Zhi-fang, YANG Lin, ZHANG Hao, XIONG Lei(145)
- Fatigue and High-temperature Tensile Properties of SA508 Gr. 3 Cl. 1 Steel
..万方数据..... WANG Chi, RAN Guang, LEI Peng-hui, HUANG Jin-hua(151)