



ISSN 1004-0609
CODEN ZYJXFK

中国有色金属学报

The Chinese Journal of Nonferrous Metals

December 2017

Volume 27 Number 12

中国有色金属学会 主办
科学出版社 出版

目 次

材料科学与工程

镁基复合材料的研究进展·····	冯 艳, 陈 超, 彭超群, 王日初(2385)
HCCM 水平连铸黄铜管坯表面点状缺陷的形成机理与控制·····	莫永达, 姜雁斌, 刘新华, 谢建新(2408)
高强高导 Cu-Cr-Zr 合金时效性能·····	丁宗业, 贾淑果, 宁向梅, 宋克兴, 刘 平(2420)
连续柱状晶组织纯铜室温超延展变形机理·····	吴 恒, 张 鸿, 吕佳峰, 林 超, 刘建纲, 陈彦旭(2426)
预变形量对 2519A-T9I6 铝合金力学性能和组织的影响·····	董 宇, 叶凌英, 孙大翔, 张新明(2434)
混合稀土对过共晶 Al-20Si 合金显微组织与力学性能的影响·····	李庆林, 李斌强, 李进宝, 兰晔峰, 夏天东(2443)
2219 大规格铸锭成分偏析行为及多向锻-固溶时效热处理对铸锭组织和性能的影响 ·····	徐道芬, 陈送义, 余 芳, 陈康华, 刘德博(2451)
AA3003 铸轧铝合金的等温析出动力学·····	陈 冠, 杨荣凯, 唐建国, 廖志宇(2460)
不同淬火介质下 7055 铝合金厚板淬火内应力测试 ·····	李亚楠, 张永安, 李锡武, 李志辉, 王国军, 闫宏伟, 金龙兵, 熊柏青(2467)
Al-Zn-Mg-Cu 合金的局部腐蚀行为与 Zn、Mg 含量的关系 ·····	谢 娟, 孟立春, 陈江华, 杨修波, 刘吉梓, 刘春辉(2473)
焊后热处理对 Al-Zn-Mg 合金焊接接头组织与性能的影响·····	杜春平, 王培吉(2483)
粉末冶金制备 50%SiC _p /Al 复合材料的结构及性能 ·····	茅学志, 洪 雨, 张玉君, 冯 东, 杨 磊, 史常东, 吴玉程, 汤文明(2493)
激光近净成形 SS316/Ni20 复合材料的开裂机理·····	郝云波, 张国会, 马广义, 闫 帅, 牛方勇, 吴东江(2501)
W/Si 复合材料的制备及抗激光冲击性能·····	陈泓谕, 罗来马, 林锦山, 咎 祥, 朱晓勇, 吴玉程(2511)
合金元素对 Co-8.8Al-9.8W 合金显微组织及 γ' 相转变温度的影响·····	徐仰涛, 姜德超, 夏荣里(2518)
铝含量对 (Zr _{0.761} Cu _{0.147} Ni _{0.092}) _{93-x} Al _{7+x} 非晶合金的热稳定性及其力学性能的影响 ·····	张 为, 寇生中, 艾亚军, 孙卫民, 赵燕春, 李春燕, 李 广(2527)

尖晶石/层状异质结构 $x\text{LiM}_2\text{O}_4 \cdot (1-x)\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ 锂离子电池正极材料的制备及电化学性能	郑卓, 郭孝东, 吴振国, 向伟, 杨秀山(2535)
Bi 含量对 Cu/Sn-0.3Ag-0.7Cu/ Cu 微焊点蠕变性能的影响	姚宗湘, 罗键, 尹立孟, 王刚, 蒋德平, 夏文堂(2545)
La掺杂 AgSnO_2 触头材料导电性能的第一性原理分析	赵彩甜, 王景芹, 蔡亚楠, 周露露, 吴倩(2552)
真空烧结泡沫 304 不锈钢吸声性能	刘培生, 徐新邦, 孙进兴, 崔光(2560)

矿业工程 · 冶金工程 · 化学化工

甘肃李坝金矿床金属硫化物成分特征及其意义	邵拥军, 谢友良, 冯雨周, 张宇, 刘忠法, 蒋梦同(2567)
含铈复杂硫化矿臭氧协同氧化浸出机理	郭学益, 辛云涛, 王浩, 田庆华(2583)
次氧化锌酸性浸出液中萃取分离铟的工艺	郭小东, 魏昶, 李兴彬, 邓志敢, 李存兄, 李旻廷(2590)
钨酸盐体系中铈的硫化行为与分离	李永立, 赵中伟(2598)
铝电解阳极气泡动力学及分布特性的低温电解实验研究	詹水清, 王贞涛, 杨建红, 郑俊, 王军锋(2605)

《中国有色金属学报》2017 年总目次	(I)
---------------------	-------

2017 年第 27 卷卷终

责任编辑: 何学锋, 龙怀中, 李艳红, 王超

[期刊基本参数] CN43—1238/TG*1991*m*A4*230*zh*P*¥80.0*1400*25*2017-12

The Chinese Journal of Nonferrous Metals

(ZHONGGUO YOUSE JINSHU XUEBAO)

Volume 27 Number 12

(Sum 225)

December 2017

CONTENTS

Materials Science and Engineering

Research progress on magnesium matrix composites

.....FENG Yan, CHEN Chao, PENG Chao-qun, WANG Ri-chu(2385)

Formation mechanism and control of spot defect on surface of brass tube fabricated by HCCM horizontal continuous

casting.....MO Yong-da, JIANG Yan-bin, LIU Xin-hua, XIE Jian-xin(2408)

Aging properties of high-strength and high-conductivity Cu-Cr-Zr alloy

.....DING Zong-ye, JIA Shu-guo, NING Xiang-mei, SONG Ke-xing, LIU Ping(2420)

Extreme plastic extensibility mechanism of continuous columnar-grained copper at ambient temperature

.....WU Heng, ZHANG Hong, LÜ Jia-feng, LIN Chao, LIU Jian-gang, CHEN Yan-xu(2426)

Effects of pre-deformation on microstructure and mechanical properties of 2519A-T9I6 aluminum alloy

.....DONG Yu, YE Ling-ying, SUN Da-xiang, ZHANG Xin-ming(2434)

Effect of mischmetal on microstructure and mechanical properties of hypereutectic Al-20Si alloy

.....LI Qing-lin, LI Bin-qiang, LI Jin-bao, LAN Ye-feng, XIA Tian-dong(2443)

Composition segregation behavior of 2219 aluminum alloy ingot with big size and effect of multi-axial forging and

solution-aging treatment on microstructure and mechanical properties of ingot

.....XU Dao-fen, CHEN Song-yi, YU Fang, CHEN Kang-hua, LIU De-bo(2451)

Isothermal precipitation kinetics of AA3003 cast rolling aluminium alloy

.....CHEN Guan, YANG Rong-kai, TANG Jian-guo, LIAO Zhi-yu(2460)

Quenching residual stress of 7055 aluminum alloy thick plate with various quenching mediums

.....LI Ya-nan, ZHANG Yong-an, LI Xi-wu, LI Zhi-hui, WANG Guo-jun,

YAN Hong-wei, JIN Long-bin, XIONG Bai-qing(2467)

Behavior of localized corrosion of Al-Zn-Mg-Cu alloys in relation with their Zn and Mg contents

.....XIE Juan, MENG Li-chun, CHEN Jiang-hua, YANG Xiu-bo, LIU Ji-zi, LIU Chun-hui(2473)

Effect of post-welding heat treatment on microstructure and properties of Al-Zn-Mg alloy welded joint

.....DU Chun-ping, WANG Pei-ji(2483)

Microstructures and properties of 50%SiC_p/Al composites fabricated by powder metallurgy

.....MAO Xue-zhi, HONG Yu, ZHANG Yu-jun, FENG Dong, YANG Lei, SHI Chang-dong,

WU Yu-cheng, TANG Wen-ming(2493)

Cracking mechanism of SS316/Ni20 composite fabricated by laser engineered net shaping

.....HAO Yun-bo, ZHANG Guo-hui, MA Guang-yi, YAN Shuai, NIU Fang-yong, WU Dong-jiang(2501)

Preparation and laser shock resistance of W/Si composites

.....CHEN Hong-yu, LUO Lai-ma, LIN Jin-shan, ZAN Xiang, ZHU Xiao-yong, WU Yu-cheng(2511)

Effects of alloying element on microstructure and γ' phase transition temperature of Co-8.8Al-9.8W alloy

.....XU Yang-tao, LOU De-chao, XIA Rong-li(2518)

Effects of Al content on thermal stability and mechanical properties of $(\text{Zr}_{0.761}\text{Cu}_{0.147}\text{Ni}_{0.092})_{93-x}\text{Al}_{7+x}$ amorphous alloy

.....ZHANG Wei, KOU Sheng-zhong, AI Ya-jun, SUN Wei-min,
ZHAO Yan-chun, LI Chun-yan, LI Guang (2527)

Preparation and characterization of spinel/layered heterostructured $x\text{LiM}_2\text{O}_4 \cdot (1-x)\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathodes for

Li-ion battery and its electrochemical properties.....ZHENG Zhuo, GUO Xiao-dong, WU Zhen-guo,
XIANG Wei, YANG Xiu-shan(2535)

Effect of Bi content on creep properties of Cu/Sn-0.3Ag-0.7Cu/ Cu solder joints

.....YAO Zong-xiang, LUO Jian, YIN Li-meng, WANG Gang, JIANG De-ping, XIA Wen-tang(2545)

First-principles analysis of conductivity of La-doped AgSnO_2 contact material

.....ZHAO Cai-tian, WANG Jing-qin, CAI Ya-nan, ZHOU Lu-lu, WU Qian(2552)

Sound absorption property of vacuum sintered 304 stainless steel foam

.....LIU Pei-sheng, XU Xin-bang, SUN Jin-xing, CUI Guang(2560)

Mine Engineering, Metallurgical Engineering, Chemistry and Chemical Engineering

Implication and component characteristics of metal sulfides in Liba gold deposit, Gansu province

.....SHAO Yong-jun, XIE You-liang, FENG Yu-zhou, ZHANG Yu, LIU Zhong-fa, JIANG Meng-tong(2567)

Mechanism of synergistic oxidation leaching of antimony-bearing complex sulfides ore by ozone

.....GUO Xue-yi, XIN Yun-tao, WANG Hao, TIAN Qing-hua(2583)

Solvent extraction and separation of indium from leaching solution of zinc oxide

.....GUO Xiao-dong, WEI Chang, LI Xing-bin, DENG Zhi-gan, LI Cun-xiong, LI Min-ting(2590)

Sulfidation and separation of antimony in tungsten solution.....LI Yong-li, ZHAO Zhong-wei(2598)

Experimental research on dynamics and distribution characteristics of anodic bubbles in aluminum electrolysis cells

with low temperature electrolysis.....ZHAN Shui-qing, WANG Zhen-tao, YANG Jian-hong,
ZHENG Jun, WANG Jun-feng(2605)

General Contents of the Chinese Journal of Nonferrous Metals.....(I)

The End of Volume 27, 2017

(Managing Editors: HE Xue-feng, LONG Huai-zhong, LI Yan-hong, WANG Chao)