



ISSN 1004-0609
CODEN ZYJXFK

中国有色金属学报

The Chinese Journal of Nonferrous Metals

November 2017

Volume 27 Number 11

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

固溶时效工艺对 2297 铝锂合金微观组织和力学性能的影响.....李红英,王小雨,余玮琛(2187)

晶粒尺寸及取向对 AZ31 合金板材室温拉伸塑性变形与断裂机制的影响
.....朱 涛,黄光杰,曹玲飞,谭文杰,赵 飞(2195)

挤压温度对 Al-Zn-Mg-Cu 合金动态再结晶、时效组织和力学性能的影响
.....薛 杰,王有为,张志豪,谢建新(2204)

机械球磨和热挤压制备超细晶 5083 铝合金的显微组织与力学性能.....李 萍,周 昊,潘伟平,刘东明(2212)

铝合金实心凸起结构板锻造成形工艺.....董文正,张存园,林启权,王志刚(2221)

微纳石墨烯片增强铝合金的力学性能及其机理
.....邹高鹏,贺显聪,孙滨洲,朱建斌,白苏南,许永祥,张 慧,杨少锋(2228)

Al-Ti5-B1-Er 复合粉末对再生 3104 铝合金细化效果.....上官晶晶,段瑞斌,张文达,白培康,刘 云(2236)

过共晶 Al-Si 合金 P 吸收率的影响因素.....胡恺琪,蒋 伟,朱向镇,张 茜,孙谦谦,刘相法(2242)

成形角度对激光选区熔化成形 CoCrMoW 合金的影响.....余伟泳,肖志瑜,程玉婉,陈莹莹,高超峰,张卫文(2251)

航空接头锻件低速等温模锻成形及其塑性变形微观机理.....胡建良,易幼平,宋雷钧,金 淼,薄 宏(2260)

Mo 含量对镍基合金力学及摩擦学性能的影响.....杨素兰,马 勤,王文珍,贾均红(2267)

Y₂O₃ 掺杂 BaZrO₃ 显微组织演变及与钛熔体相容性
.....周路海,陈光耀,李宝同,程治玮,ALI Wajid,鲁雄刚,李重河(2276)

超级电容器用 NiCo₂O₄ 及其复合材料.....李明伟,杨绍斌,王 鸣(2283)

热压烧结 GZO 陶瓷致密化与固相反应.....叶林龙,孙宜华,方 亮,陈鑫智,常宝成,程志敏(2293)

热处理温度对 Zr₄₄Co₅₆ 合金显微组织和力学性能影响.....李培友,王永善(2299)

预退火时间对累积叠轧超细晶铜室温拉伸断裂行为的影响.....李 敏,姜庆伟(2307)

工作气体对 APCVD 石墨烯薄膜生长和性能的影响.....刘庆渊,苏东艺,彭继华(2315)

高长径比高纯纳米银线的制备.....王 昀,陈雪梅(2322)

矿业工程 · 冶金工程 · 化学化工

湘西花垣铅锌矿田方解石 REE 元素和 Sr 同位素地球化学

.....隗含涛,邵拥军,叶 周,熊伊曲,周皓迪,谢友良(2329)

堆体结构对次生硫化铜矿柱浸的影响.....尹升华,王雷鸣,谢芳芳,陈 勋,潘晨阳,艾纯明(2340)

稀土矿络合浸出废液合成的冰晶石脱硅.....张晓伟,李 梅,胡家利,柳召刚,王觅堂,胡艳宏(2349)

氧化铝粉尘吸附脱除铝酸钠溶液中的腐植酸钠

.....刘桂华,陈斌斌,齐天贵,周秋生,彭志宏,李小斌,董文波(2356)

增氧条件下的碱性硫脲浸金实验.....白安平,宋永胜,李文娟,屈 伟(2363)

H₂O₂/SO₂ 催化还原六价硒及硒单质形成机理.....郭学益,徐润泽,田庆华,李 栋(2370)

油酸钠体系下碳酸钠对菱锌矿浮选行为影响及作用机理.....刘 诚,冯其明,张国范,陈 伟,陈延飞(2379)

责任编辑:李艳红,龙怀中,何学锋,王 超

[期刊基本参数] CN43—1238/TG*1991*m*A4*198*zh*P*¥80.0*1400*25*2017-11

The Chinese Journal of Nonferrous Metals

(ZHONGGUO YOUSE JINSHU XUEBAO)

Volume 27 Number 11

(Sum 224)

November 2017

CONTENTS

Materials Science and Engineering

- Effect of solid solution and aging process on microstructure and mechanical properties of 2297 Al-Li alloy
.....LI Hong-ying, WANG Xiao-yu, YU Wei-chen(2187)
- Influence of grain size and misorientation of AZ31 alloy sheets on plastic deformation and fracture mechanisms
during tensile test at room temperature.....ZHU Tao, HUANG Guang-jie, CAO Ling-fei,
TAN Wen-jie, ZHAO Fei(2195)
- Effects of extrusion temperature on dynamic recrystallization, aging microstructure and mechanical properties of
Al-Zn-Mg-Cu alloy.....XUE Jie, WANG You-wei, ZHANG Zhi-hao, XIE Jian-xin(2204)
- Microstructure and mechanical properties of ultra-fine grained 5083 Al alloy prepared by mechanical milling and
hot extrusion.....LI Ping, ZHOU Hao, PAN Wei-ping, LIU Dong-ming(2212)
- Solid boss forming process of plate forging aluminium alloy
.....DONG Wen-zheng, ZHANG Cun-yuan, LIN Qi-quan, WANG Zhi-gang(2221)
- Mechanics performances and mechanism of aluminum alloy reinforced by graphene nanosheets
.....ZOU Gao-peng, HE Xian-cong, SUN Bin-zhou, ZHU Jian-bin, BAI Su-nan,
XU Yong-xiang, ZHANG Hui, YANG Shao-feng(2228)
- Refinement of Al-Ti5-B1-Er composite powders on recycled 3104 alloy
.....SHANGGUAN Jing-jing, DUAN Rui-bin, ZHANG Wen-da, BAI Pei-kang, LIU Yun(2236)
- Affecting factors of P absorption rate of hypereutectic Al-Si alloys
.....HU Kai-qi, JIANG Wei, ZHU Xiang-zhen, ZHANG Qian, SUN Qian-qian, LIU Xiang-fa(2242)
- Effect of sloping angle on forming of CoCrMoW alloy by selective laser melting
.....YU Wei-yong, XIAO Zhi-yu, CHENG Yu-wan, CHEN Ying-ying,
GAO Chao-feng, ZHANG Wei-wen(2251)
- Low speed isothermal forging and microcosmic mechanism analysis of plastic deformation of aviation joint forging
.....HU Jian-liang, YI You-ping, SONG Lei-jun, JIN Miao, BO Hong(2260)
- Effect of molybdenum content on mechanical and tribological properties of nickel- base alloy
.....YANG Su-lan, MA Qin, WANG Wen-zhen, JIA Jun-hong(2267)
- Microstructure evolution of Y₂O₃ doped BaZrO₃ and its interface reaction with titanium melt
.....ZHOU Lu-hai, CHEN Guang-yao, LI Bao-tong, CHENG Zhi-wei, ALI Wajid,
LU Xiong-gang, LI Chong-he(2276)
- NiCo₂O₄ and theirs composite materials for supercapacitors.....LI Ming-wei, YANG Shao-bin, WANG Ming(2283)
- Densification and solid phase reaction of gallium-doped zinc oxide ceramic prepared by hot-pressing
.....YE Lin-long, SUN Yi-hua, FANG Liang, CHEN Xin-zhi, CHANG Bao-cheng, CHENG Zhi-min(2293)

- Effect of heat treatment temperature on microstructure and mechanical properties of $Zr_{44}Co_{56}$ alloy
LI Pei-you, WANG Yong-shan(2299)
- Effect of pre-annealing time on tensile deformation behavior of accumulative rolling bonding ultrafine grained Cu at room temperature.....LI Min, JIANG Qing-wei(2307)
- Influence of working gas on growth and property of graphene film prepared by APCVD
LIU Qing-yuan, SU Dong-yi, PENG Ji-hua(2315)
- Preparation of high aspect ratio and high purity silver nanowires.....WANG Yun, CHEN Xue-mei(2322)

Mine Engineering, Metallurgical Engineering, Chemistry and Chemical Engineering

- REE and Sr isotope geochemistry of gangue calcites from Huayuan Pb-Zn orefield in western Hunan, China
WEI Han-tao, SHAO Yong-jun, YE Zhou, XIONG Yi-qu, ZHOU Hao-di, XIE You-liang(2329)
- Effect of heap structure on column leaching of secondary copper sulfide
YIN Sheng-hua, WANG Lei-ming, XIE Fang-fang, CHEN Xun, PAN Chen-yang, AI Chun-ming(2340)
- Desilication for cryolite synthesized by rare earth ore complexing leaching waste liquid
ZHANG Xiao-wei, LI Mei, HU Jia-li, LIU Zhao-gang, WANG Mi-tang, HU Yan-hong(2349)
- Removal of sodium humate from sodium aluminate solution by adsorption with alumina dust
IU Gui-hua, CHEN Bin-bin, QI Tian-gui, ZHOU Qiu-sheng, PENG Zhi-hong,
 LI Xiao-bin, DONG Wen-bo(2356)
- Gold leaching of alkaline thiourea under oxygen supplementation
BAI An-ping, SONG Yong-sheng, LI Wen-juan, QU Wei(2363)
- Hydrogen peroxide catalytic reduction of selenate by sulfur dioxide and formation mechanism of selenium
GUO Xue-yi, XU Run-ze, TIAN Qin-hua, LI Dong(2370)
- Effect of sodium carbonate on flotation behavior of smithsonite and its mechanism in presence of sodium oleate
LIU Cheng, FENG Qi-ming, ZHANG Guo-fan, CHEN Wei, CHEN Yan-fei(2379)

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