

目次

材料科学与工程

添加 MgH₂ 对机械合金化 Al-12%Sn 合金组织和性能的影响
曾美琴, 邓秋洁, 鲁忠臣, 欧阳柳章, 朱敏, 王辉(439)

镁合金薄壁件压铸成形的工艺及数值模拟.....祁明凡, 康永林, 朱国明, 李扬德, 李卫荣(448)

Al-Zn-Mg-Cu-Zr-0.12Ce 合金铸锭的均匀化退火及组织演变
袁新雄, 尹登峰, 余鑫祥, 潘康观, 卢少康, 胡婷, 吕正风, 祝贞凤(459)

AZ80 镁合金低压脉冲磁场半连续铸造过程的数值模拟和实验研究.....冀焕明, 罗天骄, 杨院生(468)

表面纳米化对铜镁合金电化学腐蚀行为的影响.....关晓楠, 江静华, 陈建清, 马爱斌, 宋丹, 李学斌(477)

Cu-3.6%Al₂O₃ 铜合金细丝加工过程中组织结构演变规律.....赵郅磊, 李周, 肖柱(486)

形变热处理对 Cu-11Zn-0.5Cr 合金时效组织和性能的影响.....王霖倩, 王日初, 王小锋, 彭建, 邓敏(496)

高致密细晶 W-25Cu 触头材料的电接触性能.....万成, 李继文, 王展, 马竦琴, 魏世忠, 张国赏, 徐流杰(504)

大断面铜包铝棒坯立式连铸成形工艺参数对连铸复合过程影响的数值模拟
刘新华, 付新彤, 付华栋, 谢建新(514)

近快速凝固条件下 Ni-50%Sc 金属间化合物韧性.....原志鹏, 崔红保, 陈昊, 常亚涛, 郭学锋(525)

损伤容限型钛合金 TC4-DT 的微动磨损性能.....丁燕, 梁军, 邓凯, 柏林, 戴振东(532)

非连续电铸中镍层表面氧化膜的形成与酸蚀.....姚卫国, 韦晓杰, 窦艳丽, 管东波, 石林, 郭博渊(539)

纳米 H₂TiO₃ 锂吸附剂的水热合成及其吸附性能.....陈自正, 沈卫华, 陈立芳, 成洪业, 漆志文(547)

非平衡凝固 W₂C 的原位生长机理及硬度分析
迟静, 李惠琪, 王淑峰, 李敏, 吴杰, 李建楠, 赵健(555)

矿业工程 • 冶金工程 • 化学化工

浙江罗山金银矿床构造叠加晕特征及深部成矿预测.....鲁玉龙, 肖秋越(563)

细粒层存在条件下矿岩散体内的溶液流动特性.....	尹升华, 王雷鸣, 潘晨阳, 陈 勋, 谢芳芳(574)
航空频率域电磁法中姿态旋转不变量的姿态校正算法.....	李 光, 渠晓东, 黄 玲, 方广有(582)
铁质和镁质红土镍矿直接还原-磁选工艺对比.....	刘志国, 孙体昌, 王晓平(594)
Cu、Ni 掺杂 FeS ₂ 电子结构与光学性质的第一性原理计算.....	武佳佳, 马万坤, 焦 芬, 覃文庆(605)
蛇纹石及硼镁石浮选过程中团聚与分散机理.....	李治杭, 韩跃新, 李艳军, 高 鹏(613)
控制电位还原法回收氯化浸出液中的贵金属.....	胡意文, 何 强, 王 日, 汪秋雨, 黄绍勇(621)
响应面法优化金精矿中性焙烧产物的自浸金过程.....	徐 涛, 赵留成, 李绍英(629)
底吹炼铅炉内流动的数值模拟.....	张红亮, 汤 卓, 陈永明, 叶龙刚(637)
无膜微生物燃料电池处理含铜废水回收铜及其产电性能.....	刘维平, 印霞棐, 路娟娟, 梁国斌, 陈月美(648)
加压搅拌浸出体系下氧气的气含率.....	田 磊, 刘 燕, 吕国志, 唐俊杰, 赵秋月, 张延安(655)
不同聚合度壬基酚聚氧乙烯醚在酸性光亮镀铜中的应用.....	张 震, 黄金豆(666)
投稿须知.....	(674)

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*236*zh*P*¥80.0*1400*26*2017-03

The Chinese Journal of Nonferrous Metals

(ZHONGGUO YOUSE JINSHU XUEBAO)

Volume 27 Number 3

(Sum 216)

March 2017

CONTENTS

Materials Science and Engineering

- Effect of MgH_2 on microstructure and properties of MA Al-12%Sn alloy
.....ZENG Mei-qin, DENG Qiu-jie, LU Zhong-chen, OUYANG Liu-zhang, ZHU Min, WANG Hui(439)
- Process and numerical simulation of high pressure die-casting magnesium alloy thin-wall parts
.....QI Ming-fan, KANG Yong-lin, ZHU Guo-ming, LI Yang-de, LI Wei-rong(448)
- Homogenization treatment of as-cast Al-Zn-Mg-Cu-Zr-0.12Ce aluminum alloy and microstructure evolution during homogenization.....YUAN Xin-xiong, YIN Deng-feng, YU Xin-xiang,
PAN Kang-guan, LU Shao-kang, HU Ting, LÜ Zheng-feng, ZHU Zhen-feng(459)
- Numerical simulation and experimental research of low voltage pulsed magnetic field DC casting of AZ80 magnesium alloy.....JI Huan-ming, LUO Tian-jiao, YANG Yuan-sheng(468)
- Effect of surface nanocrystallization on electrochemical corrosion behaviours of Cu-Mg alloy
.....GUAN Xiao-nan, JIANG Jing-hua, CHEN Jian-qing, MA Ai-bin, SONG Dan, LI Xue-bin(477)
- Structure evolution of Cu-3.6%Al₂O₃ alloy fine wire during cold drawing.....ZHAO Zhi-lei, LI Zhou, XIAO Zhu(486)
- Effects of thermo-mechanical treatment on microstructure and properties of Cu-11Zn-0.5Cr alloy
.....WANG Lin-qian, WANG Ri-chu, WANG Xiao-feng, PENG Jian, DENG Min(496)
- Performances of high-density fine-grain W-25Cu electrical contact materials
.....WAN Cheng, LI Ji-wen, WANG Zhan, MA Dou-qin, WEI Shi-zhong, ZHANG Guo-shang, XU Liu-jie(504)
- Numerical simulation analysis of effects of processing parameters on forming process of vertical continuous core-filling casting for copper clad aluminum billets with large section.....LIU Xin-hua, FU Xin-tong,
FU Hua-dong, XIE Jian-xin(514)
- Ductility of near rapidly solidified Ni-50%Sc intermetallics
.....YUAN Zhi-peng, CUI Hong-bao, CHEN Hao, CHANG Ya-tao, GUO Xue-feng(525)
- Fretting wear of damage tolerance TC4-DT alloy.....DING Yan, LIANG Jun, DENG Kai, BO lin, DAI Zhen-dong(532)
- Formation and etching of oxide film on nickel surface in discontinuous electroforming
.....YAO Wei-guo, WEI Xiao-jie, DOU Yan-li, GUAN Dong-bo, SHI Lin, GUO Bo-yuan(539)
- Hydrothermal synthesis and adsorption properties of nano scale H₂TiO₃ adsorbent
.....CHEN Zi-zheng, SHEN Wei-hua, CHEN Li-fang, CHENG Hong-ye, QI Zhi-wen(547)
- In-suit growth mechanism and hardness of W₂C under non-equilibrium solidification conditions
.....CHI Jing, LI Hui-qi, WANG Shu-feng, LI Min, WU Jie, LI Jian-nan, ZHAO Jian(555)

Mine Engineering, Metallurgical Engineering, Chemistry and Chemical Engineering

- Structural superimposed halo characteristics and deep metallogenic prediction of Luoshan Au-Ag deposit in Zhejiang Province, China.....LU Yu-long, XIAO Qiu-yue(563)

Fluid flowing characteristics in ore granular with fine interlayers existed	YIN Sheng-hua, WANG Lei-ming, PAN Chen-yang, CHEN Xun, XIE Fang-fang(574)
Attitude corrections of attitude rotational invariant in airborne frequency-domain electromagnetic method	LI Guang, QU Xiao-dong, HUANG Ling, FANG Guang-you(582)
Comparison of direct reduction-magnetic separation process on ferruginous and magnesian laterite ore	LIU Zhi-guo, SUN Ti-chang, WANG Xiao-ping(594)
First principle calculation of electronic structures and optical properties of copper and nickel doped FeS ₂	WU Jia-jia, MA Wan-kun, JIAO Fen, QIN Wen-qing(605)
Mechanism of agglomeration and dispersion during flotation process of serpentine and ascharite	LI Zhi-hang, HAN Yue-xin, LI Yan-jun, GAO Peng(613)
Recovery of noble metals in chlorination-leaching solution by potential-controlled reduction method	HU Yi-wen, HE Qiang, WANG Ri, WANG Qiu-yu, HUANG Shao-yong(621)
Gold self-leaching optimization of neutral roasted products of gold concentrate by response surface methodology	XU Tao, ZHAO Liu-cheng, LI Shao-ying(629)
Numerical simulation of multiphase flow in bottom-blowing furnace for lead smelting	ZHANG Hong-liang, TANG Zhuo, CHEN Yong-ming, YE Long-gang(637)
Copper recovery from copper-containing wastewater through treating membraneless microbial fuel cell and its electricity production	LIU Wei-ping, YIN Xia-fei, LU Juan-juan, LIANG Guo-bin, CHEN Yue-mei(648)
Gas holdup in pressure agitation leaching system	TIAN Lei, LIU Yan, LÜ Guo-zhi, TANG Jun-jie, ZHAO Qiu-yue, ZHANG Ting-an(655)
Application of NP(EO) _n with different polymerization degrees in acid bright copper plating	ZHANG Zhen, HUANG Jin-dou(666)
Information for contributors	(674)

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