

目 次

材料科学与工程

- 铝合金热挤压过程中界面摩擦的研究进展.....刘志文,李落星,张 明,李世康(1311)
- 高强铝合金时效微结构演变与性能调控.....张 勇,李红萍,康 唯,张新明(1323)
- AA2024-H18 铝合金同步冷却热成形后的强化机制.....陈国亮,陈明和,王 宁,孙佳伟(1337)
- 2124 合金淬火后的室温停留效应.....景慧博,柏振海,罗兵辉,尹 远,高 阳(1344)
- 喷射沉积 SiC_p/Al 基复合材料致密化及其显微组织与力学性能.....贺毅强,李俊杰,周海生,冯立超,陈志钢(1352)
- 旋转摩擦挤压 7075 铝合金组织及第二相形貌.....邢 丽,朱杜桥,徐卫平,柯黎明(1361)
- TC11 钛合金应变率相关力学行为的实验和本构模型.....张 军,汪 洋,王 宇(1369)
- 温度对溴化锂溶液中 Ti-6Al-4V 初期空蚀行为的影响.....林 翠,赵晓斌,杜 楠,赵 晴,杨 颖(1376)
- 700 °C 超超临界锅炉材料 617B 合金冷变形和退火过程中的组织演变.....江 河,董建新,张麦仓,姚志浩(1385)
- 高温及氧化对 WC-10Co4Cr 涂层微观结构及性能的影响
.....吴燕明,赵 坚,陈小明,伏 利,毛鹏展,周夏凉(1395)
- 磁控溅射制备 CrMoAlN 梯度薄膜的抗高温氧化性能.....王宇星,楼白杨,潘 健,张 侠(1403)
- 石墨粒度及沥青粘结剂对铜-石墨电刷材料性能的影响.....林雪杨,刘如铁,熊 翔,陈 洁(1411)
- 基于修正 Johnson-Cook 模型的钛合金热黏塑性动态本构关系及有限元模拟.....李云飞,曾祥国,廖 异(1419)
- Ni 掺杂 CoFe₂O₄ 晶体电磁性质的第一性原理研究.....侯世界,侯育花,黄有林,欧阳义芳(1426)
- 基于能量守恒原理的金属压缩流动应力修正方法.....贾 东,黄西成,莫 军,胡文军(1433)

矿业工程 · 冶金工程 · 化学化工

湘中包金山矿区花岗闪长斑岩的锆石 U-Pb 年龄、Hf-O 同位素组成及其地质意义

.....鲁玉龙,彭建堂,阳杰华,李玉坤,陈宪佳,周 溪,李干龙(1441)

宁芜早白垩世火山岩地球化学特征及岩浆演化.....滕霞,黄德志,卢洋,汪龙,刘珍兰(1455)

铜镍氧硫混合矿焙烧-浸出过程铜、镍、铁的转化.....崔富晖,牟文宁,顾兴利,许茜,翟玉春(1471)

氯化铅在碳酸氢铵溶液中的物相转化机理.....李云,陈永明,薛浩天,唐朝波,杨声海,唐谟堂(1479)

含钛冶金熔渣非牛顿流体现象的表征与分析.....岳宏瑞,姜涛,薛向欣(1485)

铜闪速吹炼过程多相平衡热力学分析.....李明周,周子民,张文海,李贺松,童长仁(1493)

铁矾渣热酸分解及硫脲提银.....何静,杨建平,杨声海,陈永明,王夏阳(1504)

镍钼矿酸浸液中磷钼存在形态的热力学计算.....邵康,李青刚,周钦,张贵清,曹佐英,曾理,关文娟(1513)

焙烧温度对天然沸石物化性能的影响.....董颖博,张圆,林海,李昊(1520)

白钨矿浮选体系中大分子有机抑制剂的抑制性能.....邱廷省,宋宜富,邱仙辉,李晓波(1527)

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*224*zh*P*¥80.0*1400*25*2017-07

The Chinese Journal of Nonferrous Metals

(ZHONGGUO YOUSE JINSHU XUEBAO)

Volume 27 Number 7

(Sum 220)

July 2017

CONTENTS

Materials Science and Engineering

- Research progress of interface friction in hot extrusion of aluminium alloys
.....LIU Zhi-wen, LI Luo-xing, ZHANG Ming, LI Shi-kang(1311)
- Aging microstructure evolution in high strength aluminum alloys and performance controlling
.....ZHANG Yong, LI Hong-ping, KANG Wei, ZHANG Xin-ming(1323)
- Strengthening mechanism of hot forming with synchronous cooling of AA2024-H18 aluminum alloy
.....CHEN Guo-liang, CHEN Ming-he, WANG Ning, SUN Jia-wei(1337)
- Effect of room temperature delay on quenched 2124 alloy
.....JING Hui-bo, BAI Zhen-hai, LUO Bing-hui, YIN Yuan, GAO Yang(1344)
- Densification, microstructure and mechanical properties of spray deposited SiCp/Al-matrix composites
.....HE Yi-qiang, LI Jun-jie, ZHOU Hai-sheng, FENG Li-chao, CHEN Zhi-gang(1352)
- Microstructure and second phase morphology of rotational friction extruding 7075 Al alloy
.....XING Li, ZHU Du-qiao, XU Wei-ping, KE Li-ming(1361)
- Experiment and constitutive model of rate-dependent behavior of titanium alloy TC11
.....ZHANG Jun, WANG Yang, WANG Yu(1369)
- Effect of temperature on initial cavitation corrosion for Ti-6Al-4V in lithium bromide solution
.....LIN Cui, ZHAO Xiao-bin, DU Nan, ZHAO Qing, YANG Ying(1376)
- Microstructure evolution of alloy 617B for 700 °C ultra-supercritical boilers during cold deformation and annealing treatment.....JIANG He, DONG Jian-xin, ZHANG Mai-cang, YAO Zhi-hao(1385)
- Effect of high temperature and oxidation on microstructure and properties of WC-10Co4Cr coatings
.....WU Yan-ming, ZHAO Jian, CHEN Xiao-ming, FU Li, MAO Peng-zhan, ZHOU Xia-liang(1395)
- High temperature oxidation resistance of CrMoAlN gradient coatings prepared by unbalanced magnetron sputtering
.....WANG Yu-xing, LOU Bai-yang, PAN Jian, ZHANG Xia(1403)
- Effects of graphite granularity and pitch binder on properties of copper-graphite brush
.....LIN Xue-yang, LIU Ru-tie, XIONG Xiang, CHEN Jie(1411)
- Thermal-viscoplastic constitutive relation of Ti-6Al-4V alloy and numerical simulation by modified Johnson-Cook modal.....LI Yun-fei, ZENG Xiang-guo, LIAO Yi(1419)
- First-principle study of electronic and magnetic properties of Ni doped CoFe₂O₄
.....HOU Shi-jie, HOU Yu-hua, HUANG You-lin, OUYANG Yi-fang(1426)
- Correction method of compression flow stress of metals based on energy conservation principle
.....JIA Dong, HUANG Xi-cheng, MO Jun, HU Wen-jun(1433)

Mine Engineering, Metallurgical Engineering, Chemistry and Chemical Engineering

- Zircon U-Pb ages and Hf-O isotopes of granodiorite -porphyry in Baojinshan mining area and their geological significance.....LU Yu-long, PENG Jian-tang, YANG Jie-hua, LI Yu-kun, CHEN Xian-jia, ZHOU Xi, LI Gan-long(1441)
- Geochemical characteristics of early Cretaceous volcanic rocks and magma evolution in Ningwu basin, Eastern ChinaTENG Xia, HUANG De-zhi, LU Yang, WANG Long, LIU Zhen-lan(1455)
- Transformation of cooper, nickel and iron of oxide-sulfide mixed copper-nickel ore during roasting-leaching processCUI Fu-hui, MU Wen-ning, GU Xing-li, XU Qian, ZHAI Yu-chun(1471)
- Phase transformation mechanism of lead chloride in ammonium bicarbonate solutionLI Yun, CHEN Yong-ming, XUE Hao-tian, TANG Chao-bo, YANG Sheng-hai, TANG Mo-tang(1479)
- Expression and analysis of non-Newtonian fluid behaviors of titanium-bearing metallurgical slagYUE Hong-rui, JIANG Tao, XUE Xiang-xin(1485)
- Multiphase equilibrium thermodynamics analysis of copper flash converting processLI Ming-zhou, ZHOU Jie-min, ZHANG Wen-hai, LI He-song, TONG Chang-ren(1493)
- Decomposition of jarosite residue in sulfuric acid medium and recovery of silver with thiourea solutionHE Jing, YANG Jian-ping, YANG Sheng-hai, CHEN Yong-ming, WANG Xia-yang(1504)
- Thermodynamic analysis for species of molybdenum and phosphorus in Ni-Mo ore acidic leaching solutionSHAO Kang, LI Qing-gang, ZHOU Qin, ZHANG Gui-qing, CAO Zuo-ying, ZENG Li, GUAN Wen-juan(1513)
- Effects of calcination temperature on physicochemical properties of natural zeoliteDONG Ying-bo, ZHANG Yuan, LIN Hai, LI Hao(1520)
- Performance of organic depressants in scheelite flotation systemQIU Ting-sheng, SONG Yi-fu, QIU Xian-hui, LI Xiao-bo(1527)

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