



1981年创刊

全国中文核心期刊 中国科学引文数据库来源期刊
中国科技论文统计源期刊 中文科技期刊数据库收录期刊
美国“CA”千种表中国化学化工类核心期刊 SCOPUS数据库收录期刊
美国《剑桥科学文摘》、英国《皇家化学学会系列文摘》收录期刊

ISSN1000-7571
CODEN: YEFEET

冶金分析

METALLURGICAL ANALYSIS
VOL.38 NO. 9



品质卓越 值得信赖

醴陵市茶山万财坭坩瓷业有限公司

《碳硫分析专用坩坩行业标准》起草单位 通过ISO9001-2008认证

地址：湖南省醴陵市茶山镇168号 电话：0731-23321258 23321297 传真：0731-23323268

联系人：文万财 13807414853 汤申思 13974194034 殷自力 13762351378

邮编：412221 <http://www.csggtc.cn> E-mail: csggtc@csggtc.cn



主办单位：
中国钢研科技集团有限公司
中国金属学会

9
2018

目 次

直流辉光放电质谱分析导体和非导体样品的高纯铜片制样方法研究
..... 谭秀珍,李 瑶,林乾彬,朱 刘,邓育宁(1)

锌铝镁镀层汽车板镀层相的 X 射线衍射分析 张玉成,孟 杨,鞠新华,姜中行,马泽军(8)

粗制氧化锌的 X 射线衍射全谱图拟合定量相分析探讨 吴景武,于泓锦,冯均利,唐梦奇(14)

高频燃烧红外吸收法测定硅铁中碳的助熔剂研究..... 钟 华,刘凤君(20)

对电感耦合等离子体发射光谱法中一些问题的认识 龚 琦(26)

一种四极质谱仪射频电源控制与数据采集系统的研制 李 凯,李 明,唐兴斌,宋春苗(31)

组织结构及夹杂物对高强结构厚板冷弯开裂影响的研究 覃登攀(36)

电感耦合等离子体质谱法测定水泥中 11 种组分..... 张翠欣,姚春毅,剧京亚,董亚楠,马英楠(41)

电感耦合等离子体质谱法测定聚氯乙烯加工用稀土复合热稳定剂中铅..... 包香春,高立红(48)

电感耦合等离子体原子发射光谱法测定云南昆阳磷矿黑色页岩中钒钼镍
..... 冯晓军,薛 菁,杨晓燕,史 鑫(53)

微波消解-火焰原子吸收光谱法测定铜精矿中银
..... 邹雯雯,岳春雷,赵祖亮,张庆建,周龙龙,徐兆锋(59)

多元光谱拟合校正-电感耦合等离子体原子发射光谱法测定铈化合物中 19 种杂质元素
..... 李秋莹,甘建壮,何 姣,方海燕,孙 祺,王应进(63)

电感耦合等离子体原子发射光谱法测定铈铁合金中铝硅镍 张秀艳,常 诚,赵 静(69)

磷钒钼黄光度法测定钒磷铁矿中磷 周礼仙(75)

广告目次(7),《冶金分析》2019 年征稿启事(58),关于召开 2018 年全国材料光谱分析技术交流会的通知(68)

Contents

Investigation on sample preparation method of high purity indium sheet in analysis of conductor and
non-conductor sample by direct current glow discharge mass spectrometry
..... TAN Xiu-zhen , LI Yao , LIN Qian-bin , ZHU Liu , DENG Yu-ning (1)

X-ray diffraction analysis of coating phase for zinc-aluminum-magnesium coating automobile sheet
..... ZHANG Yu-cheng , MENG Yang , JU Xin-hua , JIANG Zhong-hang , MA Ze-jun (8)

Discussion on quantitative phase analysis of crude zinc oxide by X-ray diffraction full spectrum fitting
..... WU Jing-wu , YU Hong-jin , FENG Jun-li , TANG Meng-qi (14)

Investigation on flux in determination of carbon in ferrosilicon by high frequency combustion infrared
absorption method ZHONG Hua , LIU Feng-jun (20)

Understanding of some issues about inductively coupled plasma optical emission spectrometry
..... GONG Qi (26)

Development of a kind of radio frequency power control and data acquisition system for quadrupole
mass spectrometer LI Kai , LI Ming , TANG Xing-bin , SONG Chun-miao (31)

Investigation on the influence of structure and inclusion on cold bending cracking of high strength
structural thick plate TAN Deng-pan (36)

Determination of eleven components in cement by inductively coupled plasma mass spectrometry
..... ZHANG Cui-xin , YAO Chun-yi , JU Jing-ya , DONG Ya-nan , MA Ying-nan (41)

Determination of lead in rare earth compound thermal stabilizer used for polyvinyl chloride processing by
inductively coupled plasma mass spectrometry BAO Xiang-chun , GAO Li-hong (48)

Determination of vanadium , molybdenum and nickel in black shale of Kunyang phosphate mine in
Yunnan by inductively coupled plasma atomic emission spectrometry
..... 万方数据 FENG Xiao-jun , XUE Jing , YANG Xiao-yan , SHI Xin (53)

Determination of silver in copper concentrate by microwave digestion -flame atomic absorption spectrometry ZOU Wen-wen , YUE Chun-lei , ZHAO Zu-liang , ZHANG Qing-jian , ZHOU Long-long , XU Zhao-feng (59)

Determination of nineteen impurity elements in iridium compounds by inductively coupled plasma atomic emission spectrometry with multi-component spectral fitting correction LI Qiu-ying , GAN Jian-zhuang , HE Jiao , FANG Hai-yan , SUN Qi , WANG Ying-jin (63)

Determination of aluminum ,silicon ,nickel in cerium-iron alloy by inductively coupled plasma atomic emission spectrometry ZHANG Xiu-yan , CHANG Cheng , ZHAO Jing (69)

Determination of phosphorus in vanadium-phosphorus-iron ore by phosphorus vanadium molybdenum yellow spectrophotometry ZHOU Li-xian (75)

声 明

为扩大本刊所载论文在国内外的学术影响 ,促进科技信息的广泛交流 ,本刊已同意国内外刊物、中国知网(CNKI)、万方数据资源系统、中文科技期刊数据库等摘引或转载本刊所登论文。凡投寄我刊稿件 ,本刊将视为已许可上述出版物引用。本刊所付稿酬已包括上述出版物稿酬。