

## 目 次

钢中细小夹杂物的研究方法探讨 ..... 齐江华, 吴 杰, 索进平, 薛正良, 付 兵, 田 青(1)

电感耦合等离子体质谱法测定钢中痕量钙 ..... 亢德华, 于媛君, 王 铁(6)

激光诱导击穿光谱定量分析镍铬钼钒钛钢中锰钛镍  
..... 玉世娟, 陈金忠, 苏红新, 王春生, 魏艳红(11)

基于 MATLAB 的电化学滴定曲线导数变换的实现 ..... 应海松, 张会红(16)

X 射线荧光光谱法测定铜矿中主次成分 ..... 曹慧君, 张爱芬, 马慧侠, 李晓宁, 徐祥斌(20)

电感耦合等离子体原子发射光谱法测定矿石中的钨钼 ..... 张 宁(25)

离子液体在萃取分离中的应用进展(综述)  
..... 马春宏, 朱 红, 王 良, 姜大雨, 闫永胜, 王庆伟(29)

大面积激光熔覆 NiCrBSi 合金组织结构 ..... 邱星武(37)

磷酸三丁酯萃取-火焰原子吸收光谱法测定高纯黄磷中痕量铁和锌  
..... 李 佳, 朱晓帆, 许凤兰(43)

电感耦合等离子体原子发射光谱法测定精矿粉中 7 种伴生元素  
..... 侯广顺, 张丽娜(47)

铈(Ⅲ)-水溶性苯胺蓝-溴酸钾体系阻抑动力学光度法测定痕量铈  
..... 宋学省(51)

微波消解-火焰原子吸收光谱法测定磷矿石中铅  
..... 刘国文, 王旭刚, 崔东胜, 龚福忠(54)

萤石中二氧化硅和氟化钙的系统分析 ..... 宋新艳(58)

分光光度法测定多晶硅中铁和铝 ..... 何发林, 陈文辉, 罗学涛, 陈 朝(62)

二溴对氯偶氮氯磷固相萃取-分光光度法测定痕量钷  
..... 李慧芝, 张 瑾, 解文秀, 曹法全(66)

浊点萃取-邻二氮菲分光光度法测定海水中痕量铁 ..... 宋兴良, 梁恕坤(70)

重铬酸钾自动电位滴定法测定渣样中低含量氧化亚铁的不确定度评定  
..... 闻向东, 陈士华, 李玉芬(74)

硫氰酸盐分光光度法测定钛合金中钼的测量不确定度评定  
..... 张殿凯, 李满芝, 臧慕文, 童 坚(79)

《冶金分析》历年过刊已全文上网(英文目次后), 广告目次(24 页), 2011 年征订启事(《冶金分析》(10 页), 《中国无机分析化学》(42 页), 《分析试验室》(57 页), 《理化检验-化学分册》(61 页)), 仪器信息网“人物专访”栏目介绍(19 页), 仪器信息网“100 家实验室”专题介绍(78 页)

## Contents

- Discussion on the research method of fine inclusions in steel  
..... QI Jiang-hua, WU Jie, SUO Jin-ping, et al. (1)
- Determination of trace calcium in steels by inductively coupled plasma mass spectrometry  
..... KANG De-hua, YU Yuan-jun, WANG Tie(6)
- Quantitative analysis of manganese, titanium and nickel in nickel-chromium-molybdenum-  
vanadium-titanium steel by using laser-induced breakdown spectroscopy  
..... YU Shi-juan, CHEN Jin-zhong, SU Hong-xin, et al. (11)
- Realization of derivative transformation for titration curve of electrochemistry with MATLAB  
..... YING Hai-song, ZHANG Hui-hong(16)
- Determination of major and minor components in copper ore by X-ray fluorescence spectrometry  
..... CAO Hui-jun, ZHANG Ai-fen, MA Hui-xia, et al. (20)
- Determination of tungsten and molybdenum in ores by inductively coupled  
plasma atomic emission spectrometry ..... ZHANG Ning(25)
- Advances in application of ionic liquids in extraction separation(review)  
..... MA Chun-hong, ZHU Hong, WANG Liang, et al. (29)
- Microstructure of NiCrBSi alloy with large area laser cladding ..... QIU Xing-wu(37)
- Determination of trace iron and zinc in high purity yellow phosphorus by flame atomic absorption  
spectrometry with tributyl phosphate extraction ..... LI Jia, ZHU Xiao-fan, XU Feng-lan(43)
- Determination of seven accompanying elements in concentrate fines by inductively  
coupled plasma atomic emission spectrometry ..... HOU Guang-shun, ZHANG Li-na(47)
- Determination of trace rhodium by inhibition kinetic spectrophotometry in rhodium(III)–water-soluble  
aniline blue–potassium bromate system ..... SONG Xue-sheng(51)
- Determination of lead in phosphate ore by flame atomic absorption spectrometry  
with microwave digestion ..... LIU Guo-wen, WANG Xu-gang, CUI Dong-sheng, et al. (54)
- Systematic analysis of silicon dioxide and calcium fluoride in fluorite ..... SONG Xin-yan(58)
- Determination of iron and aluminum in polycrystalline silicon by spectrophotometry  
..... HE Fa-lin, CHEN Wen-hui, LUO Xue-tao, et al. (62)

- Spectrophotometric determination of trace yttrium with dibromo-*p*-chloro-chlorophosphonazo solid phase extraction ..... LI Hui-zhi, ZHANG Jin, XIE Wen-xiu, et al. (66)
- Determination of trace iron in seawater by cloud point extraction coupled with orthophenanthroline spectrophotometry ..... SONG Xing-liang, LIANG Shu-kun(70)
- Uncertainty evaluation for the determination of low content of ferrous oxide in the slag specimen by automatic potentiometric titration with potassium dichromate ..... WEN Xiang-dong, CHEN Shi-hua, LI Yu-fen(74)
- Uncertainty evaluation for the determination of molybdenum in titanium alloy by thiocyanate spectrophotometry ..... ZHANG Dian-kai, LI Man-zhi, ZANG Mu-wen, et al. (79)

## 《冶金分析》历年过刊已全文上网

从 2009 年 1 月起,《冶金分析》已正式开通网上投稿系统,并将过刊文献逐步上网。目前已实现从创刊号 1981 年至 2009 年全部过刊的全文上网,新出刊将滞后 3 个月上网。数据库中各篇论文均包含题名、作者、关键词、单位、摘要、基金、刊名、ISSN、年、期、第一责任人等 11 个数据项,可方便读者快速查询和浏览。点击“过刊浏览”,即可浏览本刊历年发表的学术论文;选择“高级检索”,即可对相关主题进行检索。

编辑部同时备有全部过刊(1981—2008)的光盘版(共计 28 卷,174 期次,4442 篇论文),定价 500.00 元(含邮费)。欲收藏购买者,请与我们联系(010—62182398,62188330)。

欢迎浏览! 欢迎下载! 欢迎投稿!

冶金分析编辑部

2009. 8