

中文核心期刊
中国科学引文数据库收录期刊
中国学术期刊全文数据库收录期刊
中国期刊方阵双效期刊
美国《CA》千种表收录期刊
英国《AA》及《MPBS》收录期刊

理化检验

LIHUA JIANYAN HUAXUE FENCE

化学分册

月刊 公开发行
1963年创刊

第55卷第12期(卷终)
2019年12月18日出版

中国标准连续出版物号
ISSN 1001-4020
CN 31-1337/TB

主管
上海科学院
主办
上海材料研究所

出版
《理化检验—化学分册》编辑部
上海市邯郸路99号 邮编: 200437
电话: (021) 55882970, 65556775-263
传真: (021) 65544911
投稿网址: www.mat-test.com
E-mail: hx@mat-test.com

发行
电话(传真): (021) 65527634

名誉主编
吴诚
主编
马冲先
副主编
沈虹 胡勇平

本期责任编辑
王真

广告代理
上海华亿展览广告有限公司
上海市邯郸路99号 邮编: 200437
电话: (021) 65558944
业务主管: 顾杰
电话: 13918904529
E-mail: ad@mat-test.com

发行范围
公开
国内总发行
上海市报刊发行局
国内订阅
全国各地邮政局(所)
邮发代号: 4-182
定价: 20.00元/册
国外总发行
中国国际图书贸易总公司
北京399信箱 邮编: 100044
国外代号: M6530
印刷
上海普顺印刷包装有限公司

目次

CONTENTS

试验与研究

- 元素分析仪-稳定同位素比值质谱仪测定胶乳总固形物碳含量及其稳定碳同位素
..... 罗雪华,王文斌,吴小平,王大鹏,张永发,薛欣欣,赵春梅(1365)
- 纳米二氧化锰固相萃取-高效液相色谱法测定油炸食品中丙烯酰胺
..... 刘海霞,狄婧,饶红红,郑艳萍,姜永强,赵国虎(1373)
- 荧光光谱法研究头孢克洛与牛血红蛋白的相互反应机理
..... 张彦青,刘保生(1379)
- 高效液相色谱-荧光法或超高效液相色谱-四极杆/轨道阱质谱法测定抑郁症小鼠海马中5-羟色胺和相关的2种物质含量的比较
..... 王丽,朱军,环飞,程洁,吴倩(1384)

工作简报

- 热脱附-气相色谱-质谱法筛查分析溶剂型涂料中挥发性有机化合物
..... 陈红军,胡艳君,石鹏途,裴文意(1389)
- 高效液相色谱法测定3-氨基哌啶二盐酸盐中氨基吡啶类基因毒性杂质的含量
..... 董淑波,杨汉跃,徐亮,陈学民(1396)
- 煤基碳量子点荧光猝灭法测定注射液和牛奶样品中卡那霉素
..... 毛永强,张喆双娇,孙一鑫,李娜(1401)
- 超高效液相色谱-串联质谱法测定人血浆中蘑菇毒肽的含量
..... 周贻兵,李磊,吴玉田,林野,郭华,张权,刘文政,刘利亚(1406)
- 电感耦合等离子体原子发射光谱法在铀矿石化学物相分析中的应用
..... 马海萍,马玲,黄勤(1412)
- QuEChERS-高效液相色谱-串联质谱法同时测定豆芽中11种植物生长调节剂残留量
..... 朱燕燕,汤丽华,马桂娟(1417)
- [Bmim]PF₆疏水性离子液体敏感膜H₂PO₄⁻离子选择性电极测定土壤中总磷含量
..... 杨凯,全红花,郭子娴,田树梅,石金伟,李明(1423)
- 顶空-气相色谱法同时测定茆类衍生物中4种残留溶剂的含量
..... 臧娜,王海波,王海洋,谷金儒,宫秋红,王守凯(1427)

目次

CONTENTS

理化检验

LIHUA JIANYAN HUAXUE FENCE

化学分册

月刊 公开发刊

《理化检验—化学分册》 第八届编委会名单

编委会主任委员：鄢国强

副主任委员：王海舟 方禹之
胡勇平 陶美娟

编委(按姓氏笔画为序)：

马冲先 王虎 王海舟
王淑华 方禹之 冯玉怀
冯建跃 朱果逸 任一平
庄惠生 刘英 刘绍璞
刘树深 杜一平 李华昌
李建平 李建军 李莎莎
吴诚 邱德仁 沈虹
沈永祥 张毅 张兴宝
张宏鹤 陈永丽(美国)
陈恒武 欧忠平 卓尚军
金米聪 金钦汉 周仕林
周锦帆 胡勇平 胡晓春
郜洪文 施学成 莫卫民
徐建平 郭伟强 郭寅龙
郭德华 陶美娟 黄杉生
曹宏燕 鄢国强 颜流水
戴学谦

版权声明

凡投稿本刊的文章，均
视为同意本刊授权的合
作媒体使用。本刊支付
的稿酬已包含授权费用。

- 微波消解-电感耦合等离子体质谱法探讨青海不同产地枸杞中
微量元素的差异
.....李莉,薛宾,魏玉海(1431)
- 高效液相色谱法附蒸发光散射检测器同时测定烟用接装纸中
7种甜味剂的含量
.....赵海娟,张文洁,楚文娟,李文伟,王慧,张峻松(1436)
- 分散液液微萃取预处理-气相色谱-质谱法快速测定人尿中
3种毒品方法改进
.....刘缙,蔡红新,钱斌,董文彬,毛海峰,梁晨(1442)

知识与经验

- 三氯化六氨合钴浸提-分光光度法测定土壤阳离子交换量
.....陈桂华,范芳,林芷君(1448)
- 电感耦合等离子体原子发射光谱法测定铍中氧化铍的含量
.....刘军,孙洪涛,李晖,王志萍,陈红,李娜(1452)
- 酸溶-碱提取-硫氰酸盐分光光度法测定岩石矿物中的钼含量
.....王娜,陈枫,王家松,吴磊,吴良英,滕新华(1455)
- 高效液相色谱外标法测定反应液中2-甲基萘和 β -甲萘醌的含量
.....豆永辉,李小聪,刘国际,徐丽(1460)
- QuEChERS-气相色谱-串联质谱法测定农田土壤中3种
嘧啶类杀菌剂的残留量
.....张文锦,刘本甫(1463)

综述

- 地质样品中氯的测定方法的近期进展
.....夏传波,钱惠芬,田兴磊,赵伟,姜怀坤,张伟(1466)
- 基于金纳米粒子光学性质的比色传感器及其在食品安全
检测中的应用
.....王燕,周化岚,施沁怡,吕嘉猛(1476)

综合信息

- 《理化检验-化学分册》征稿简则 (1395)
- 2020年《理化检验-化学分册》征订启事 (1405)
- 2020年《理化检验-化学分册》专题报道征稿启事 (1441)
- 《发表学术论文“五不准”》通知 (1447)
- 广告 (封页,目次前,第1482页后)

A

PHYSICAL TESTING AND CHEMICAL ANALYSIS

PART B: CHEMICAL ANALYSIS

Vol.55 **No.12**

(Monthly)
Dec. 2019

Published since 1963

ISSN 1001-4020
CN 31-1337/TB

Sponsored by:
Shanghai Research Institute
of Materials

Published by: Editorial Department
of Physical Testing and Chemical
Analysis Part B: Chemical Analysis

Honorary Editor-in-Chief: WU Cheng
Editor-in-Chief: MA Chongxian
Deputy Editor-in-Chief:
SHEN Hong, HU Yongping

Address: No.99 Handan Road,
Shanghai 200437, China

Tel: 0086-21-55882970
0086-21-65556775 Ext. 263

Fax: 0086-21-65544911

E-mail: hx@mat-test.com

Website: www.mat-test.com

CONTENTS

Research Papers

- Determination of Carbon Content in Total Solids of Latex and Its Stable Carbon Isotope Ratio ($\delta^{13}\text{C}$) by EA and IRMS in Hyphenation
..... LUO Xuehua, WANG Wenbin, WU Xiaoping,
WANG Dapeng, ZHANG Yongfa, XUE Xingxin, ZHAO Chunmei(1365)
- HPLC Determination of Acrylamide in Fried Food with SPE Using Nano-MnO₂ as Adsorbent
..... LIU Haixia, DI Jing, RAO Honghong,
ZHENG Yanping, JIANG Yongqiang, ZHAO Guohu(1373)
- Mechanism of the Reaction Between Cefaclor and Bovine Hemoglobin by Fluorescence Spectrometry
..... ZHANG Yanqing, LIU Baosheng(1379)
- Comparison of the Determination of 5-Hydroxytryptamin and 2 Related Compounds in Mouse Hippocampus by HPLC with Fluorescence Detector and UHPLC-Q-Obitrap-Mass Spectrometry
..... WANG Li, ZHU Jun, HUAN Fei, CHENG Jie, WU Qian(1384)

Brief Notes

- Analysis and Screening of Volatile Organic Compounds in Solvent-Based Coatings by Thermal Desorption-Gas Chromatography-Mass Spectrometry
..... CHEN Hongjun, HU Yanjun, SHI Pengtu, PEI Wenyi(1389)
- HPLC Determination of Aminopyridines Remained as Genotoxic Impurities in 3-Aminopiperidine Dihydrochloride
..... DONG Shubo, YANG Hanyue, XU Liang, CHEN Xuemin(1396)
- Fluorimetric Determination of Kanamycin in Injections and Milk Samples by Quenching of Fluorescence of Carbon Quantum Dots by Kanamycin
..... MAO Yongqiang, ZHANG Zheshuangjiao, SUN Yixin, LI Na(1401)
- Determination of Mushroom Toxins in Human Blood Plasma by UHPLC in Hyphenation with MS/MS in Tandem
..... ZHOU Yibing, LI Lei, WU Yutian,
LIN Ye, GUO Hua, ZHANG Quan, LIU Wenzheng, LIU Liya(1406)
- Application in the Phase Analysis of Bismuth Ores by Inductively Coupled Plasma Atomic Emission Spectrometry
..... MA Haiping, MA Ling, HUANG Qin(1412)
- Simultaneous Determination of Residual Amount of Eleven Plant Growth Regulators in Bean Sprout by QuEChERS-HPLC-MS/MS
..... ZHU Yanyan, TANG Lihua, MA Guijuan(1417)



PART B: CHEMICAL ANALYSIS

- Determination of Total Phosphorus Content in Soil by $H_2PO_4^-$ Ion Selective Electrode with Hydrophobic Ionic Liquid Sensitive Membrane of [Bmim]PF₆
..... YANG Kai, QUAN Honghua, GUO Zixian, TIAN Shumei, SHI Jinwei, LI Ming(1423)
- Simultaneous Determination of Four Residual Solvents in Fluorene Derivatives by Headspace-Gas Chromatography
..... ZANG Na, WANG Haibo, WANG Haiyang, GU Jinru, GONG Qihong, WANG Shoukai(1427)
- Difference of Contents of Trace Elements in Lycium Chinense Grown in Various Areas of Qinghai Province Based on the Determination by ICP-MS with Microwave Digestion of Samples
..... LI Li, XUE Bin, WEI Yuhai(1431)
- Determination of 7 Sweeteners in Cigarette Tip Paper by High Performance Liquid Chromatography with Evaporation Light Scattering Detection
..... ZHAO Haijuan, ZHANG Wenjie, CHU Wenjuan, LI Wenwei, WANG Hui, ZHANG Junsong(1436)
- Modification of Method for Rapid Determination of 3 Illicit Drugs in Human Urine by GC-MS with Pretreatment by DLLME
..... LIU Jin, CAI Hongxin, QIAN Bin, DONG Wenbin, MAO Haifeng, LIANG Chen(1442)

Practical Experiences

- Determination of Cation Exchange Capacity of Soil by Spectrophotometry After Extraction with $[Co(NH_3)_6]Cl_3$
..... CHEN Guihua, FAN Fang, LIN Zhijun(1448)
- Determination of Beryllium Oxide in Beryllium by Inductively Coupled Plasma Atomic Emission Spectrometry
..... LIU Jun, SUN Hongtao, LI Hui, WANG Zhiping, CHEN Hong, LI Na(1452)
- Determination of Molybdenum in Rocks and Minerals by Spectrophotometry with Thiocyanate After Acid Dissolution-Alkali Extraction
..... WANG Na, CHEN Feng, WANG Jiasong, WU Lei, WU Liangying, TENG Xinhua(1455)
- Determination of 2-Methylnaphthalene and β -Menadione by High Performance Liquid Chromatography with External Standard Method
..... DOU Yonghui, LI Xiaocong, LIU Guoji, XU Li(1460)
- Determination of Residual Amount of 3 Pyrimidine Bactericides in Farmland Soil by QuEChERS-GC in Hypenation with MS/MS in Tandem
..... ZHANG Wenjin, LIU Benfu(1463)

Reviews

- Recent Advances of Methods for Determination of Chlorine in Geological Samples
..... XIA Chuanbo, QIAN Huifen, TIAN Xinglei, ZHAO Wei, JIANG Huaikun, ZHANG Wei(1466)
- Optical Sensor Based on Gold Nanoparticles and Its Application to Food Safety Inspection
..... WANG Yan, ZHOU Hualan, SHI Qinyi, LÜ Jiameng(1476)