

《中国学术期刊（光盘版）》全文收录期刊
江西省化学化工行业技术期刊
中国知网（CNKI）收录期刊
美国化学文摘（CA）收录期刊

《万方数据中国学术期刊数据库》收录期刊
《中文科技期刊数据库》收录期刊
《超星期刊数据库》收录期刊

江西化工

第 1 期
2023
第 39 卷
总第 165 期

JIANGXI CHEMICAL INDUSTRY

1985 年创刊，双月刊



ISSN 1008-3103



主管单位 江西省检验检测认证总院
主办单位 江西省检验检测认证总院
江西省化学化工学会

ISSN 1008-3103
CN 36-1108/TQ

江西化工

JIANGXI CHEMICAL INDUSTRY

双月刊

1985 年创刊



2023 年第 1 期(总第 165 期)

2023 年 2 月出版

ISSN 1008-3103
CN 36-1108/TQ

主 管 江西省检验检测认证总院
主 办 江西省检验检测认证总院
江西省化学化工学会

编辑出版 《江西化工》编辑部

主 编 罗文斌
副 主 编 徐京鹏
执行主编 江 榕
责任编辑 江 榕 杨 青
编 辑 黄齐鸣 程赤虎
地 址 南昌市北京东路 171 号
邮 编 330029
电 话 0791-88305087
邮 箱 jxhg2006@sina.com
网 址 http://fzy.jxtc.org.cn/jxhgzz/
印 刷 南昌焦点印刷有限公司
定 价 15.00 元

目 次

· 综述与专论 ·

- 1 原位凝胶的研究进展
安中原, 冯白茹, 余巧, 申茹
- 5 黑枸杞中花青素的提取技术概述
马久强, 王晓泽, 秦帅, 宋维君*
- 9 酒精类消毒剂危险特性分类探讨
周秀清, 冯均利, 冯智劫, 刘捷光, 吴景武*
- 13 ZIF-8 制备方法及其应用研究概述与展望
曾歆韵, 王晓泽, 伊有婷, 吴林曦, 鲁厉宏, 宋维君*

· 检验检测 ·

- 16 气相色谱法测定水中百菌清和溴氰菊酯的含量
欧蕾
- 20 高效液相色谱法同时测定复合膜袋中苯代三聚氰胺及二种二苯甲酮化合物的含量
张涛, 曾莉*, 林黛琴, 聂绍丽
- 24 地表水化学需氧量快速消解分光光度法批量测试的研究
申芝芝, 叶璞
- 28 EDX 法对轨道交通地板布中铅、镉有害元素快速筛选的应用
徐巧红, 王卫, 王春生, 杜立新
- 33 微波消解法测定水中化学需氧量
杜建侠, 杨媛媛, 荣沙沙, 李红
- 36 检验检测中数据修约的五种函数组合方法研究
贾冰涛, 杨水岚, 甘露, 戈小燕, 帅馨岚, 邬曼星辰

· 分析与应用 ·

- 40 苦皮藤薄层色谱鉴别方法的建立
罗健菱, 赵婷婷, 胡家震, 唐娟, 胡成刚*, 马彬焰, 邹通芝
- 45 鹰不泊根、五加皮、十八症综合评价
王小蝶, 袁晓娟, 周利兵*
- 50 化学样品成分数据对比中数学分段处理法在生态环境损害溯源鉴定评估中的应用研究
吴雅欢, 夏龙贵*
- 53 原子荧光光谱法的断续流动进样体积差异对比
朱国政, 廖智, 林常青, 张国斐, 刁琪琪

· 实验与研究 ·

- 56 硫铁矿高效混合捕收剂试验研究
段智晖

**JIANGXI
CHEMICAL INDUSTRY**
Bimonthly
Started in 1985

No.1 2023 (Series No.165)
February 2023

ISSN 1008-3103
CN 36-1108/TQ

Superintended by
Jiangxi General Institute of Testing and Certification

Sponsored by
Jiangxi General Institute of Testing and Certification
Jiangxi Provincial Chemistry and Chemical Engineering Society

Edited and Published by
Periodical Office of Jiangxi Chemical Industry

Editor in Chief
Luo Wenbin

Vice-Editor in Chief
Xu Jingpeng

Executive Editor in Chief
Jiang Rong

Responsible Editor
Jiang Rong Yang Qing

Editor
Huang Qiming Cheng Chihu

Address
No.171 Beijing Eastern Road, Nanchang,
P.R. of China.

Post Code
330029

Telephone
0791-88305087

E-mail
jxhg2006@sina.com

Official website
<http://fzy.jxtc.org.cn/jxhgzz/>

Printed by
Nanchang Jiaodian Printing Co., Ltd

- 60 CuFe₂O₄涂层电极材料制备及废水净化性能研究
赵晶晶, 夏欣雨, 吴菁, 陈亚红*, 朱超胜*
- 64 基于正交试验法探究新制氢氧化铜与葡萄糖反应的最佳条件
潘振蓓, 张超, 李雨甜, 张小兰, 余焕焕, 李燕红, 叶青
- 71 改性催化剂对 N₂O₅ 硝化甲苯的影响研究
樊蓉

· 材料科学与技术 ·

- 74 石墨烯在 Z 型光催化剂中的应用
李儒天, 张军, 吴同喜, 欧阳军胜, 马永强, 宁志荟, 刘才华*
- 82 长余辉材料发光机理与光学性能研究
李敬远
- 86 改性水玻璃和聚氨酯封堵材料在防灭火中的应用
柴卫军

· 环境科学与资源利用 ·

- 90 生态环境事件中污泥固体废物溯源鉴定与危险特性鉴别技术
研究
杨昆忠
- 94 江西省再生铜冶炼行业危险废物原料管理对策研究
曾敏, 江娟, 张秋根
- 98 浅谈医院污水处理站及改进建议
陶士素, 尹中武*, 杨菲菲*
- 102 乡镇面源污染对古泊善后河水质影响及防治措施研究
司尧迪, 孙丹

· 教学与实践 ·

- 105 浅谈如何提高全日制化学教育硕士 PCK 水平
惠永欣, 李艳华, 魏梅红*, 盛寿日*
- 110 基于 OBE 理念的项目驱动式材料与化工类专业英语教学模
式探索
徐灵峰, 易绣光*, 黄艳蓉
- 114 “化学分析技术”在线精品课程建设探究
曾秋莲
- 117 1+X 证书背景下“水环境监测”混合式教学探究
钟彩霞, 贾皓亮

· 化工园区 ·

- 121 鄱阳湖国家自主创新示范区创新发展研究——基于高新技术
企业科技创新视角
卢婷

CONTENTS

- 1 Research Progress of In-situ Gel
An Zhong-yuan, Feng Bai-ru, Yu Qiao, Shen Ru
- 5 Review of Anthocyanins Extraction Techniques from Lycium Ruthenicun
Ma Jiu-qiang, Wang Xiao-ze, Qin Shuai, Song Wei-jun^{}*
- 9 Discussion on Classification of Dangerous Characteristics of Alcohol Disinfectants
Zhou Xiu-qing, Feng Jun-li, Feng Zhi-jie, Liu Jie-guang, Wu Jing-wu^{}*
- 13 Summary and Prospect of ZIF-8 Preparation Method and Its Application Research
Zeng Xin-yun, Wang Xiao-ze, Yi You-ting, Wu Lin-xi, Lu Li-hong, Song Wei-jun^{}*
- 16 Determination of Chlorothalonil and Deltamethrin in Water by Gas Chromatography
Ou Lei
- 20 Simultaneous Determination of Benzonquanmine and Two Benzophenone Compounds in Composite Membrane Bags by High-performance Liquid Chromatography
Zhang Tao, Zeng Li^{}, Lin Dai-qin, Nie Shao-li*
- 24 The Determination of COD in Surface Water with Fast Digestion Spectrophotometric for Batch Testing
Shen Zhi-zhi, Ye Pu
- 28 Application of EDX Method for Rapid Screening of Harmful Elements of Lead and Cadmium in Floor Cloth of Rail Transit
Xu Qiao-hong, Wang Wei, Wang Chun-sheng, Du Li-xin
- 33 Determination of Chemical Oxygen Demand in Water by Microwave Digestion
Du Jian-xia, Yang Yuan-yuan, Rong Sha-sha, Li Hong
- 36 Research on Five Function Combination Methods of *Banker's Rounding* in Inspection and Testing
Jia Bing-tao, Yang Shui-lan, Gan Lu, Ge Xiao-yan, Shuai Xin-lan, Wu Min-xing-chen
- 40 Establishment of TLC Identification Method for Celastrus Angulatus Maxim
Luo Jian-ling, Zhao Ting-ting, Hu Jia-zhen, Tang Juan, Hu Cheng-gang^{}, Ma Bin-yan, Tai Tong-zhi*
- 45 Comprehensive Evaluation to Radix Zanthoxyli Avicennae, Sessileflower Acanthopanax Bark and Herba Piperis Tonkinensis
Wang Xiao-die, Qin Xiao-juan, Zhou Li-bing^{}*
- 50 Study on the application of data segmentation method in chemical sample composition comparison
Wu Ya-huan, Xia Long-gui^{}*
- 53 Comparison of Volume Difference by Intermittent Flow Injection in Atomic Fluorescence Spectrometry
Zhu Guo-zheng, Liao Zhi, Lin Chang-qing, Zhang Guo-fei, Diao Qi-qi
- 56 Experimental Study on High Efficiency Mixed Collector for Pyrite
Duan Zhi-hui

- 60 Study on the Preparation of CuFe₂O₄ Electrode Material and Purification Performance of Wastewater
Zhao Jing-jing, Xia Xin-yu, Wu Jing, Chen Ya-hong, Zhu Chao-sheng**
- 64 Investigation of Optimal Conditions for the Reaction of Newly Prepared Copper Hydroxide with Glucose Based on Orthogonal Test Method
Pan Zhen-bei, Zhang Chao, Li Yu-tian, Zhang Xiao-lan, Yu Huan-huan, Li Yan-hong, Ye Qing
- 71 Influence of Modified Catalysts on N₂O₅ Nitration of Toluene
Fan Rong
- 74 Application of Graphene in Z-Scheme Photocatalyst
*Li Ru-tian, Zhang Jun, Wu Tong-xi, Ou-yang Jun-sheng, Ma Yong-qiang, Ning Zhi-hui, Liu Cai-hua**
- 82 Study on Luminescence Mechanism and Optical Properties of Long Afterglow Materials
Li Jing-yuan
- 86 Application of Modified Water Glass and Polyurethane Plugging Materials in Fire Prevention
Chai Wei-jun
- 90 Study on Traceability Identification and Hazard Identification of Sludge Solid Wastes in Eco Environmental Events
Yang Kun-zhong
- 94 Hazardous Waste of Recycled Copper Smelting Industry in Jiangxi Province Research on Raw Material Management Strategy
Zeng Min, Jiang Juan, Zhang Qiu-gen
- 98 Discussion on Hospital Sewage Treatment Station and Improvement Suggestions
Tao Shi-su, Hu Zhong-wu, Yang Fei-fei*
- 102 Impact of Township Non-point Source Pollution on Water Quality of GuBo Shanhou River and its Control Measures
Si Yao-di, Sun Dan
- 105 How to Improve PCK Level of Full-time Master of Chemistry Education
Hui Yong-xin, Li Yan-hua, Wei Mei-hong, Sheng Shou-ri**
- 110 Exploration of Project Driven Professional English Teaching Mode for Materials&Chemical Engineering Majors based on OBE Concept
Xu Ling-feng, Yi Xiu-guang, Huang Yan-rong*
- 114 Research on the Construction of Online Excellent Course of Chemical Analysis Technology
Zeng Qiu-lian
- 117 Research on Hybrid Teaching of *Water Environment Monitoring* under the Background of 1+X Certificate System
Zhong Cai-xia, Jia Hao-liang
- 121 Research on Innovation and Development of Poyang Lake National Independent Innovation Demonstration Zone ——Based on the Perspective of Scientific and Technological Innovation of High-tech Enterprises
Lu Ting