

《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

第3期
2023
第39卷
总第167期

JIANGXI CHEMICAL INDUSTRY

1985年创刊，双月刊



ISSN 1008-3103

0.6

9 771008 310231

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3期(总第167期)

2023年6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 氧化铁纳米材料的制备及其光催化性能研究进展
胡军英, 江民华*, 刘嘉欣, 傅欣欣, 刘坚, 查国君, 刘锦成
- 7 高级氧化技术在工业废水深度处理中的应用进展
余水平, 王元月*, 何友文, 王先勇, 邵鹏辉, 徐翔涛
- 13 稻壳制备纳米二氧化硅的研究进展
江雪菡, 胡佩佩, 王金叶, 陈珍妮, 赵傲强, 李琴*
- 17 阻燃型生物基环氧树脂的研究进展
张萌, 秦志伟
- 23 链转移剂在偏氟乙烯聚合中的应用进展
吴祥
- 26 蓝宝石在冲击载荷下的力-热响应行为研究进展
贺文, 战金辉, 孙怀宇, 刘晓星*

·检验检测·

- 30 HD-6型氢室装置氢体积活度空间均匀性分析
田兴宇, 苏建文, 李云洋, 杜猛猛, 王昕瑶
- 34 41份商品有机肥养分、重金属质量分数及重金属溯源分析
湛润生, 岳新丽, 顾怀琴, 程宁
- 38 四酸分解-ICP-OES法测定硅质砂岩中次量元素的成分
龚丽芳
- 42 基于表面增强拉曼光谱法快速检测11种常见的防晒剂
程一鑫, 丁若雯, 游媛, 易路遥, 肖小武, 章祥, 常化仿, 马宁, 刘岑
- 48 伴生尾矿库矿井涌水中总 α 的测量
张会乔, 张若煊, 刘舒, 臧旭芳
- 52 基于醇脱氢酶催化-动力学荧光分析法测定食品中乙醇的含量
覃建军, 卢孜, 吴来燕, 杨安平*
- 56 LC-MS/MS法测定改善睡眠类保健品中21种非法添加药物的方法验证
吕小丽, 赵淑娟, 周晓晴, 熊增星, 曾林晖, 陈林, 蓝伟, 唐丽君*

**JIANGXI
CHEMICAL INDUSTRY**
Bimonthly
Started in 1985

No.1 2023 (Series No.167)
June 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

·分析与应用·

- 64 对乙酰氨基酚注射液大生产工艺研究
吴仁德, 肖昱, 段锋, 梁国斌*
- 68 茶叶肉桂、西湖叶、花香水仙多指标计量分析
周利兵, 苏胡梅, 谢素芬
- 73 自动矿物学分析技术在神府气田致密砂岩气中的应用
孔令强, 张飞, 张奇
- 78 管带输送在煤化工领域应用的改进
孟津, 孟德强, 刘亚平

·实验与研究·

- 82 聚醚胺型环氧乳化剂的制备及其性能研究
俞乐, 俞佳丽, 杨佳豪, 胡国锋, 周建萍
- 86 $\text{Fe}_3\text{O}_4@\text{MIL}-125$ 制备及其对亚甲基蓝的吸附研究
余孟, 朱潇, 白魁, 成思瑶, 蒲家豪
- 92 功能化石墨烯吸附染料废水性能研究
叶娇琴, 黄云凤

·环境科学与资源利用·

- 96 江西省各地区蔬菜种植地的土壤重金属含量调查
钟志清, 杨慧娟, 付青霞, 邱受亮, 钱坤*, 于艳红
- 101 江西省栀子产区土壤重金属污染特征及其污染风险评价
洪家顺, 李道成, 陈玉园, 宁知贵, 王裕成*
- 106 DTRO 工艺在某垃圾填埋场渗滤液处理中的应用与建议
王清森*, 金晶, 郑伟, 张亚东, 褚兴飞, 王庆, 廖广东, 王殿二

·石油化工·

- 112 石油炼制设备运营状态实时监控技术研究
毛伊峰

·教学与实践·

- 116 教育信息化 2.0 行动计划下中职院校药物化学课堂教学改革实践研究
肖榕, 孟艳林
- 120 开发三维模型化学符号 应用“宏观 - 模型 - 微观”策略
——信息技术与化学教学深度融合的研究与实践
余鑫海, 余捷, 余德润*, 曾莉

CONTENTS

- 1 Research Progress on Preparation and Photocatalysis Performance of Iron Oxide Nanomaterials
Hu Jun-ying, Jiang Min-hua^{}, Liu Jia-xin, Fu Xin-xin, Liu Jian, Zha Guo-jun, Liu Jin-cheng*
- 7 Progress of Advanced Oxidation Processes in Advanced Treatment of Industrial Wastewater
Yu Shui-ping, Wang Yuan-yue^{}, He You-wen, Wang Xian-yong, Shao Peng-hui, Xu Xiang-tao*
- 13 Research Progress in the Preparation of Nano-silica from Rice Husks
Jiang Xue-han, Hu Pei-pei, Wang Jin-ye, Chen Zhen-ni, Zhao Ao-qiang, Li Qin^{}*
- 17 Research Progress of Flame Retardant Bio-based Epoxy Resin
Zhang Meng, Qin Zhi-wei
- 23 Application Progress of Chain Transfer Agents in Vinylidene Fluoride Polymerization
Wu Xiang
- 26 Research Progress on the Force-thermal Response Behavior of Sapphire under Shock Load
He Wen, Zhan Jin-hui, Sun Huai-yu, Liu Xiao-xing^{}*
- 30 Spatial Uniformity Analysis of Radon Volume Activity in HD-6 Radon Chamber Device
Tian Xing-yu, Su Jian-wen, Li Yun-yang, Du Meng-meng, Wang Xin-yao
- 34 Nutrients, Heavy Metal Mass Fraction and Heavy Metal Traceability Analysis of 41 Commercial Organic Fertilizer
Zhan Run-sheng, Yue Xin-li, Gu Huai-qin, Cheng Ning
- 38 Tetraacid Decomposition-Determination of Minor Elements in Siliceous Sandstone by ICP-OES
Gong Li-fang
- 42 Rapid Detection of 11 Common Sunscreens Based on Surface Enhanced Raman Spectroscopy
Cheng Yi-xing, Ding Ruo-wen, You Yuan, Yi Lu-yao, Xiao Xiao-wu, Zhang Xiang, Chang Hua-fang, Ma Ning, Liu Cen
- 48 Measurement of Total α in Mine Water Inflow of Associated Tailings Pond
Zhang Hui-qiao, Zhang Ruo-xuan, Liu Shu, Zang Xu-fang
- 52 Determination of Ethanol in Food by Alcohol Dehydrogenase-Fluorescence Analysis
Qin Jian-jun, Lu Zi, Wu Lai-yan, Yang An-ping^{}*
- 56 Method Validation of Determination of 21 Illegally Added Drugs in Sleep-improving Health Products by High Performance Liquid Chromatography Tandem Mass Spectrometry
Lv Xiao-li, Zhao Shu-juan, Zhou Xiao-qing, Xiong Zeng-xing, Zeng Lin-hui, Chen Lin, Lan Wei, Tang Li-jun^{}*

- 64 Study on the Production Process of Acetaminophen Injection
Wu Ren-de, Xiao Yu, Duan Feng, Liang Guo-pin^{}*
- 68 Metrological Analysis of Multi-Indices to Cassia Tea, West Lake Leaves and Floral Narcissus
Zhou Li-bing, Su Hu-mei, Xie Su-fen
- 73 Application of Automatic Mineralogical Analysis in Tight Sandstone Gas
Kong Ling-qiang, Zhang Fei, Zhang Qi
- 78 Improvement of Application of Pipe Belt Conveying in Coal Chemical Industry
Meng Jing, Meng De-qiang, Liu Ya-ping
- 82 Preparation and Properties of Polyether Amine Type Epoxy Emulsifier
Yu Le, Yu Jia-li, Yang Jia-hao, Hu Guo-feng, Zhou Jian-ping
- 86 Fe₃O₄@MIL-125 Preparation and Adsorption of Methylene Blue
Yu Meng, Zhu Xiao, Bai Kui, Chen Si-yao, Pu Jia-hao
- 92 Study on the Adsorption Performance of Functionalized Graphene for Dye Wastewater
Ye Jiao-qin, Huang Yun-feng
- 96 Investigation on the Content of Heavy Metals in Soil of Vegetable Planting Areas in Jiangxi Province
Zhong Zhi-qing, Yang Hui-juan, Fu Qing-xia, Qiu Shou-liang, Qian Kun^{}, Yu Yan-hong*
- 101 Pollution Characteristics of Heavy Metals in Soil of Fructus Gardeniae Habitats in Jiangxi Province and its Pollution Risk Assessment
Hong Jia-shun, Li Dao-cheng, Chen Yu-yuan, Ning Zhi-gui, Wang Yu-cheng^{}*
- 106 Application and Suggestion of DTRO Process in Leachate Treatment of a Landfill
Wang Qing-sen^{}, Jin Jing, Zheng Wei, Zhang Ya-dong, Chu Xing-fei, Wang Qing, Liao Guang-dong, Wang Dian-er*
- 112 Research on Real-time Monitoring of Operation Status of Petroleum Refining Equipment
Mao Yi-feng
- 116 Practice Research on Pharmaceutical Chemistry Classroom Teaching Reform in Secondary Vocational Schools Under the Action Plan of Education Informationization 2.0
Xiao Rong, Meng Yan-lin
- 120 Application of “Macro–Model–Micro” Strategy to Improve Chemistry Discipline Literacy——Research and Practice on the deep integration of Information Technology and Chemistry Teaching
Yu Xin-hai, Yu Jie, Yu De-run^{}, Zeng Li*

扎实抓好主题教育 为奋进新征程凝心聚力



《江西化工》编辑部宣

《江西化工》统一投稿邮箱：jxhg2006@sina.com

电话：0791-88305087

地址：江西省南昌市北京东路 171 号《江西化工》编辑部

定价：15.00 元