

Guangdong Chemical Industry

第37卷 第07期 总第207期

1974年创刊 (月刊)

刊号 $\frac{\text{ISSN } 1007 - 1865}{\text{CN } 44 - 1238/\text{TQ}}$

- 全国石油与化工行业优秀期刊
- 高、中级化工职称资格评审认定刊物
- 中国核心期刊(遴选)数据库收录期刊

主 管: 广东省广远石油化工集团有限公司

主 办: 广东省石油化工研究院

社 长: 麦裕良

主 编: 邹思民

出版发行: 《广东化工》编辑部

发行范围: 国内外公开发行

地 址: 广州市越秀区越华路116号

邮 编: 510034

电话/传真: (020) 83302517 83336009

在线投稿: <http://www.gdchem.com>

电子邮箱: gdcic200@163.com

广告经营许可证号 440000100138

印 刷: 广东省教育厅教育印刷厂

订 购: 全国各地邮局、所

邮发代号: 46-211

出版日期: 2010年07月25日

邮局全年定价:

国内240元, 国外192美元

沈阳办事处: 王雪丽

电 话: 024-86389066

万方数据

◆ 专 稿

- 1 有机硅乳液型消泡剂中杀菌防腐剂的筛选 李欢玲, 李莉, 汤小燕

◆ 试验与研究

- 3 复相乳化法制备聚乳酸微胶囊及其性能考察
姚文彬, 杨月梅, 王士斌, 等
- 5 一种有机无机硼酸盐 $B_3O_4(OH) \cdot 0.5(C_4H_{10}N_2)$ 的发光性质探索与研究
潘春阳, 杨红梅, 赵丰华, 等
- 8 1-(4-三氟甲基苯基)- β -咪唑-3-酰肼的合成 陈泽宇, 朱永松, 张耀谋
- 10 新型煤矿降尘剂配方的研究 李博, 王农, 薛瑞, 等
- 12 聚酰亚胺 SiO_2 片材制备及力学性能分析 梁亮, 梁忠诚
- 14 镍盐的焙烧温度对 $Ni-Cu/ZrO_2-CeO_2-Al_2O_3$ 催化剂在甲烷自热重整制氢中的影响 蔡秀兰, 董新法, 林维明
- 17 氯离子对脱石膏结晶性能的影响 林少敏, 黄利榆, 陈少瑾
- 19 正交设计优化海燕总皂苷的微波提取工艺 李敏晶, 韩艳玲, 周月, 等
- 21 $Al_2O_3 \cdot H_2O$ 纳米悬浮液导热系数研究 李华, 朱冬生
- 24 川西深层富钾卤水老卤综合利用途径研究
彭时利, 胡永宏, 冉敬文, 等
- 26 Ag₂C 共包覆对 $LiFePO_4$ 材料电化学性能的影响
胡益兰, 张文魁, 陶新永, 等
- 29 表面修饰氧化亚铅纳米颗粒的制备及其抗磨性能研究 郭璞, 李楠
- 31 甲烷芳构化反应和乙烷添加的热力学分析 孙长勇, 宋一兵, 方英文
- 33 复合表面活性剂在强化催化裂化中的应用工艺
曹群, 陈海丽, 石俊峰, 等
- 37 月桂酸/海泡石复合储能材料的制备及性能研究
蒋达华, 赵运超, 石发恩, 等
- 39 烯酰吗啉分子印迹聚合物的合成及固相萃取研究 王岩, 许焯炜, 梁爽
- 40 复合型改性无机阻燃剂在 PVC 中的应用 陶海霞, 强娜
- 41 纳米粉体 $Y_2O_3:Ti^{3+}, Pr^{3+}$ 的光谱性能 曾贵平, 姚李, 董强, 等
- 44 油田污水的应用性能研究 任颖
- 46 一种新型煤基沥青的炭化性能研究 惠友权, 向柠, 李鹤
- 49 深圳地区大豆加工食品中呕吐毒素污染与暴露状况调查
颜姜瑜, 赖心田, 郑彦婕, 胡雄
- 51 丙烯/1-丁烯无规共聚透明聚丙烯研究 彭丽玲
- 53 纳米二氧化锆包覆氧化铝方法的研究 刘清福
- 55 2,3,5,6-四氧-4-甲基苯腈生产工艺研究

◆ 专论与综述

- 57 无氟质子交换膜的研究和进展 肖带丽
- 59 动力电池用正极材料磷酸铁锂的研究进展 侯贤华, 胡社军, 彭薇
- 61 气相二氧化硅胶体电解质的研究进展 陈妹琼, 张敏, 孙成访, 等
- 63 膜生物反应器(MBR)中膜污染防治方法的研究进展
周政杰, 温志良, 梁志辉, 等
- 66 生物催化风味在水产品加工中的应用 吴海燕, 杨磊, 李思东, 等
- 68 二次有机气溶胶中二羰基化合物的研究进展 刘艳芬, 王黎明
- 70 高级氧化技术处理工业废水的研究进展 李月兰, 谭五丰
- 72 酶在羰基的还原中的应用 刘四华
- 74 三氯蔗糖在调味品中的应用 梁宁
- 76 炔卤化合物在有机合成中的应用进展 卢章顺, 梁慧, 潘叙恩
- 78 大型石化项目 HSE 体系化管理的良好实践 刘旭阳, 李志平
- 80 RT 培司生产工艺技术及市场前景 谢恩, 宋晶丹, 马良
- 82 亚微米锌粉制备技术与应用 严海锦
- 83 浅谈如何提高煤质分析的准确度 孙洪宾
- 85 煤气化多联产系统研究现状与进展 徐昕, 罗方涛, 路学红
- 87 好氧颗粒污泥脱氮功能的研究与进展 蓝如辉
- 89 大跨度钢结构建筑的防火保护 毛晓杰

- 91 建筑墙体保温材料的研究现状与发展趋势 刘柱平
93 就地无功补偿的综合效益分析 李晓峰, 韩有婕

◆ 分析测试

- 95 苯巴比妥原料药中的两个杂质及其含量测定 孙艳华, 徐英, 韩勇, 等
96 壳聚糖脱乙酰度的测定方法比较 张琳, 温蒸梅, 黄淑娟
98 蔬果中维生素C含量的检测方法 谷雪贤
99 顶空-气相色谱法测定纸类印刷品中16种挥发性有机物 徐宁
102 多组分谱图拟合技术 ICP-AES 法测高硅含量合金样品中硅成分 何勇
104 气相色谱法测定海水中滴滴涕含量的测量不确定度评定
叶四化, 易怀昌, 林颂雄, 等
107 电位滴定法检测有机热载体时电极选用的研究 谢厚铤
108 高效液相色谱法测定荔枝中有机酸的含量 黄沛苍, 吴新
110 选择测定水样中硫酸盐浓度方法的比较研究 黄凤珍
112 地表水中重金属监测预处理方法的探讨 袁兵贵, 谢欣, 张大周
113 影响分光光度分析的几个因素 周小强
115 浅谈广西右江雁江水质自动监测系统的结构及工作中遇到的问题 黄梅
117 HPLC 法快速测定二乙基吡啶酮烷有关物质 龚爱琴
118 离子选择性电极法测定牙膏中氟含量研究 闫桂甫, 董国坤
119 ICP-AES 测定金属材料中元素的研究现状及进展 余莉莉
121 新显色剂的合成及在环境样品中汞离子的检测研究 何良荣, 周梓庄
123 农药残留分析检测技术发展概况 吴远健, 李超, 李宝铤
126 显色剂应用于环境样品中铜离子的检测研究 周梓庄, 何良荣

◆ 设计与装备

- 129 纤维膜脱硫醇工艺在惠炼液态烃脱硫醇装置中的应用
党建军, 龚朝兵, 花飞
131 狭窄空间大型设备安装施工技术 沈伯燎
133 一种间歇精馏连续化的工艺 梁坤
136 蒸压釜埋藏裂纹的分析和处理 杨泽榕
138 液氮储罐危险有害因素辨识及安全对策措施 沈巧妍
140 惠州1200万t炼油厂装置平面布置特点分析 郭杨

◆ 经验交流

- 142 浅谈化工原理精品课程建设的探索与实践
尚龙安, 张艳辉, 陈效宁, 等
143 谈分析化学实验课程建设 江银枝, 徐火英, 高丽萍
145 共建校企联合实验室, 提高研究生创新能力
刘作华, 周小霞, 谭世语, 等
147 教学研究型大学实验平台的整合 王文清, 杨明, 刘骏
149 高校化学实验改革与学生综合能力的培养 王彦卿, 张红梅, 周秋华
150 高校化学实验教学中发展性评价的设计与实施 关婷婷, 王溪溪
152 化工原理重点课程建设的探索与实践 孙兰萍, 赵大庆, 马龙, 等
154 基于工作过程的高职有机化工生产技术课程开发研究
童孟良, 舒均杰, 陈东旭
157 工作过程导向的高职化工原理课程教学内容设计 刘媛
159 对农科无机及分析化学教学的体会与思考 唐小兰, 周晓华, 龚淑华
161 浅谈提高本科毕业论文质量的思考与实践 刘丽英, 田彦文
162 高校改革环境化学教学方法的研究 张军丽, 李荣强
164 绿色氧化技术课程的教学与实践探讨 王慧娟, 储金宇
166 高分子材料成型加工课程设计特征与内容 白绘宇, 刘晓亚
167 独立学院无机及分析化学课程的教学探索 廖颖敏
168 独立学院分析化学实验教学的探索与实践 张建会, 杨东生, 谢鹏, 等
170 对农林学院无机及分析化学课程教学的思考 李晶
171 聚合物复合材料教学浅析 史博, 梁亮
172 结构化学教学质量提升初探 施建成
174 化学信息学教学中的几点体会 张万强, 许志红, 王宏胜
175 伦敦帝国理工学院绿色化学硕士教育 沈玉龙, 刘立华, 关俊霞, 等
177 民族地区院校普通化学教学中的教与学 彭金云
179 化工工艺学教学改革与创新意识的培养 曾永林, 王锋, 林立
180 高职化工及制药类专业“双证”融合实践教学模式的探索与实践 洪亮
181 高职表面活性剂课程项目化教学探索 杨春华, 陈刚, 张龙, 等
183 充分发挥高职在新疆煤化工人才培养方面的作用 李培, 尹兆明
185 用创新思维指导药理学实践教学 伍善广, 陈颖
187 初中化学实验研究教学实验室管理改进办法探讨 黄岳平

本期基金项目文章导读

- P3 复相乳化法制备聚乳酸微胶囊及其性能考察
P5 一种有机无机硼酸盐 $B_3O_4(OH) \cdot 0.5(C_4H_{10}N_2)$ 的发光性质探索与研究
P8 1-(4-三氟甲基苯基)- β -咪唑-3-酰肼的合成
P10 新型煤矸降尘剂配方的研究
P12 聚酰亚胺 SiO_2 片材制备及力学性能分析
P14 镍盐的焙烧温度对 $Ni-Cu/ZrO_2-CeO_2-Al_2O_3$ 催化剂在甲烷自热重整制氢中的影响
P17 氟离子对脱硫酸石膏结晶性能的影响
P19 正交设计优化海燕总皂苷的微波提取工艺
P24 川西深层富钾硼卤水老卤综合利用途径研究
P57 无氟质子交换膜的研究和进展
P59 动力电池用正极材料磷酸铁锂的研究进展
P61 气相二氧化硅胶体电解质的研究进展
P63 膜生物反应器(MBR)中膜污染防治方法的研究进展
P66 生物催化风味在水产品加工中的应用
P142 浅谈化工原理精品课程建设的探索与实践
P143 谈分析化学实验课程建设
P145 共建校企联合实验室, 提高研究生创新能力
P147 教学研究型大学实验平台的整合
P149 高校化学实验改革与学生综合能力的培养
P150 高校化学实验教学中发展性评价的设计与实施
P152 化工原理重点课程建设的探索与实践
P154 基于工作过程的高职有机化工生产技术课程开发研究
P157 工作过程导向的高职化工原理课程教学内容设计
P170 对农林学院无机及分析化学课程教学的思考
P175 伦敦帝国理工学院绿色化学硕士教育
P181 高职表面活性剂课程项目化教学探索
P189 水解—接触氧化工艺处理屠宰废水研究
P190 “Case Teaching”模式在大气污染控制工程教学中的探索与实践
P247 壳聚糖复合絮凝剂对蔗汁酒精生产废液的澄清工艺研究
P272 表面改性对掺杂 TiO_2 纳米薄膜亲水性的影响
P291 单分散 $LiFePO_4$ 球的制备

◆ 环境保护

- 189 水解—接触氧化工艺处理屠宰废水研究 陈贺添, 陈发枝
190 “Case Teaching”模式在大气污染控制工程教学中的探索与实践 张杨帆, 杨期勇, 谢宝华, 等
- 192 水泥行业建设项目环境影响评价应重视矿山开采环境影响 方战强
194 环境放射性污染的危害与防治 吴文广
196 环境有害物质的分类与评估 黄明华, 周秀清, 黄景清, 等
198 石化码头污水处理 翁瑜婷
199 金属腐蚀的分类和防护方法 包月霞
200 污水处理厂生物过滤除臭技术研究 李歆
202 超声波在水处理中的应用研究进展 钟丽琼
204 线路板行业废水处理技术的应用研究 何春玲
207 北轴污水处理厂工程设计介绍 黄泽亮
209 对二甲氨基苯甲醛合成工艺废水治理研究 程小冬, 吴秀玲, 杜璋璋, 等
- 210 环境化学课程教学的探索与实践 肖俊霞, 吴资格
212 石煤水浸液中钒的富集研究 王四华, 陈坤, 徐保明, 等
214 果汁废水处理研究进展 梅拥军
217 聚合硫酸铝处理焦化废水的研究 沈兴国
218 固定化技术在环境修复工程中的应用研究进展 邓福
221 生活垃圾卫生填埋场渗沥液收集导排系统设计概要 何丹
222 木质素活性炭处理偶氮染料废水的试验研究 王俊, 陈欣义, 吴姗蔚
224 生态环境状况评价研究进展 柯燕珍
227 浅析城市生活垃圾处理现状与资源化对策 王艾荣, 陈刚, 于丽娜, 等
230 微电解+改良 Fenton 氧化法处理电镀前处理废水的工程应用 张晓云, 陈欣义, 石键韵, 等
- 232 SBR 法处理皮革废水工程应用实践 肖佳
234 浅谈深圳固成污水处理厂一期工程 陈艳云
236 建筑材料及其产生的室内污染物质 邹战军
239 城市景观水体富营养化污染及治理技术初探 莫灼均
241 化学合成类制药废水的工程应用 刘群, 王文标, 熊岚
243 城镇污水处理厂污泥处理处置技术探讨 罗彬源, 曾佳敏

◆ 新工艺新技术

- 245 高效液相色谱法测定尿中马尿酸、甲基马尿酸三种同分异构体 冯翠霞, 张艳, 林丽玲, 等
247 壳聚糖复合絮凝剂对蔗汁酒精生产废液的澄清工艺研究 钟映萍, 蚁细苗, 张佳泳, 等
- 250 利用 LNG 冷能的冷库工艺模拟及分析 李少中
252 浅谈润滑油精密扫线系统管道设计要点 黄麟淦
254 FT-IR 光谱法测定蔗糖酶的二级结构 黄金凤, 沈文洁, 刘能盛, 等
256 涂层防护性能的测试方法研究 应柳枝, 莫春生, 许丽梅, 等
258 浅谈酒精制造方面的几个关键技术 胡彦成, 何鹏
261 纳米 Al₂O₃ 表面接枝聚合改性的研究 汪加胜, 朱东湖, 唐枋成
264 光子晶体光纤的制备方法和发展趋势 梁华英
266 结核分枝杆菌 ESAT-6 基因的克隆与序列分析 曲宁, 金元宝, 王立英
269 纳氏试剂分光光度法测定室内空气中氨的测量结果不确定度评定 张桂鑫, 许创新, 陈华霓
- 272 表面改性对掺杂 TiO₂ 纳米薄膜亲水性的影响 范海陆, 赵立特, 赵燕, 等
- 274 甲烷转化催化剂的性能探讨及使用 王志彦
277 氢气资源综合利用 钟宇峰
279 钢制储油罐的腐蚀与防护 徐杨斌
281 安全阀在石油化工装置中的设置与选用 张水英
282 TRICON 防喘振控制系统在催化主风机中的应用 王福兵
284 火焰原子吸收法测定潮州几种蔬菜中的金属元素 陈艳, 黄俊生, 蔡秀英
286 浅谈聚氨酯软泡生产过程中的安全防护 马栋梁
288 U 形管代替浮头式换热器的应用 王东旭
289 MECS 废酸再生工艺在惠炼的应用 魏松源, 王永娟
291 单分散 LiFePO₄ 球的制备 王彬帅, 王军伟, 张静杰, 等
293 油雾润滑技术在延迟焦化装置的应用 陈泳健, 龚朝兵, 张绍伟

◆ 其它

《广东化工》征稿启事(7) 《广东省涂料、油墨、胶粘剂企业名录》征订启事(28) 广告索引(92) 化工工具书推荐(139)

投稿指南

《广东化工》为月刊, 国内外公开发行, 征稿范围: 石油化工、医药化工、农药化肥、电化学、化工设计及装备、日用化工、食品化工、化工环保、工业水处理涂料与油墨、胶粘剂、生物化工、燃气化工等学科和行业科技类文章。

投稿方式:

1. 在线投稿

为确保稿件即时到达我编辑部, 并确保作者联系电话、通讯地址等信息准确、完整, 投稿请上网使用本刊“在线投稿系统”, 稿件将在第一时间获得处理。

在线投稿网址: www.gdchem.com

2. 邮箱投稿、查询(若“在线投稿”不成功, 可使用邮箱投稿)

投稿 Email: gdcc200@163.com

投稿邮件主题: 第一作者名/稿件题目

《广东化工》理事会

理事长:

麦裕良(广东省石油化工研究院 院长)

理事:

李安喜(中石化集团公司茂名石化公司

经理, 党委书记)

陈炳琳(茂名新华粤石化股份有限公司

董事长兼总经理)

崔若平(中山凯达精细化工股份有限公司

副总经理)

邵建聪(茂名环星炭黑有限公司 总经理)

李宏耀(广东寰球广业工程有限公司 执

行董事, 代理董事长)

黄志红(广东南方碱业股份有限公司 董

事长)

杨益新(广州农药厂 厂长)

《广东化工》欢迎网上在线投稿

www.gdchem.com

Guangdong Chemical Industry

Vol.37 No.7

(Series No.207)

Publication ISSN 1007 - 1865
CN 44 - 1238/TO

Contents

◆ Special papers

- 1 Selection of Preservatives for Defoamer Emulsion Base on Organosilicone Li Huanling, Li Li, Tang Xiaoyan

◆ Experiment & research

- 3 Preparation and Release Efficiency of Polylactic Acid Microspheres Yao Wenbin, Yang Yumei, Wang Shibin, Liu Yuangang, Mao Honghao
5 Temperature-depend FTIR and Luminescent Properties of an Organic Templated Borate $B_3O_3(OH) \cdot 0.5(C_4H_{10}N_2)$ Pan Chunyang, Yang Hongmei, Zhao Fenghua, Li Daguang, Zheng Yuying

- 8 Synthesis of 1-(4-trifluoromethyl-phenyl)- β -carboline-3-hydrazide Chen Zeyu, Zhu Yongsong, Zhang Yaomou
10 Study on Prescription of New Coal Dedusting Agent Li Bo, Wang Nong, Xuc Rui, Yang Yuying

- 12 The Preparation and Mechanical Properties Analysis of Polyimide-silica Composite Laminates Liang Liang, Liang Zhongcheng

- 14 Effect of Ni(NO₃)₂ Calcined Temperature on Autothermal Reforming of Methane over Ni-Cu/ZrO₂-CeO₂-Al₂O₃ Catalyst Cai Xiulan, Dong Xinfa, Lin Weiming

- 17 Effect of Chloride Ion on Crystallization of Desulphurization Gypsum Lin Shaomin, Huang Liyu, Chen Shaojin

- 19 Optimization of Microwave-assisted Extraction (MAE) Technology of the Asterosaponin from Asterina Pectinifera by Orthogonal Design Li Minjing, Han Yanling, Zhou Yue, Liu Yuan, Liu Jing

- 21 Study on the Thermal Conductivity of Al₂O₃-H₂O Nanosuspensions Li Hua, Zhu Dongsheng

- 24 Study on Comprehensive Utilization Ways of the Tailing Brines from Marine Deep Brines which Enrich in Potassium and Bron in West of Sichuan Peng Shili, Hu Yonghong, Ran Jingwen, Huang Peijin

- 26 The Influence of Coated of Ag and C on the Electrochemical Performance of LiFePO₄ Hu Yilan, Zhang Wenkui, Tao Xinyong, Gan Yongping, Huang Hui

- 29 Preparation and Anti-wear Properties of Surface-capped PbO Nanoparticles Guo Pu, Li Nan

- 31 Thermodynamics Investigation on Methane Dehydroaromatization and Ethane Addition Sun Changyong, Song Yibing, Fang Yiwen

- 33 The Applying of Compound Surfactants on the Intensified FCC Cao Qun, Chen Haili, Shi Junfeng, Ma Haiyan, Su Xin

- 37 Preparation and Properties of Lauric Acid/Sepiolite Composite Phase Change Material Jiang Dahua, Zhao Yunchao, Shi Faen, Ren Rushan

- 39 Synthesis of Dimethomorph Imprinted Polymers and Molecularly Imprinted Solid-phase Extraction Analysis Wang Yan, Xu Xuanwei, Liang Shuang

- 40 Application of Compound Modified Inorganic Flame Retardant in PVC Tao Xianfeng, Qiang Na

- 41 Spectroscopic Properties of Y₂O₃:Ti³⁺, Pr³⁺ Nanopowders Zeng Guiping, Yao Li, Dong Qiang, Bao Weitao

- 44 Study of Applied Performance of Oil Field Sewage Ren Ying

- 46 A Study on Carbonization of a Novel Coal-derived Pitch Xi Youquan, Xiang Ning, Li He

- 49 Improved Determination of Tertiary Butylhydroquinone, Butylated Hydroxyanisole and Butylated Hydroxytoluene Content in Vegetable Oil with HPLC Yan Jianguy, Lai Xintian, Zheng Yanjie

- 51 Study on Random Transparent Polypropylene Co-polymerized with Propylene and Butene-1 Hu Xiong

- 53 Study on the Method of Nano-ZrO₂ Surface Coating of Al₂O₃ Peng Liling

- 55 2,3,5,6 - tetrachlorodibenzo -4 - methyl Benzonitrile Production Technology Liu Qingfu

◆ Summarize & thesis on special topics

- 57 Advances in the Synthesis of Fluorine-free Proton Exchange Membrane Xiao Daili

- 59 Research Progress of LiFePO₄ Cathode Materials for Power Lithium-ion Battery Hou Xianhua, Hu Shejun, Peng Wei

- 61 Advances in Fumed Silica Gel for Valve-regulated Lead-acid Batteries Chen Meiqiong, Zhang Min, Sun Chengfang, Cai Zhiqian, Cheng Faliang

- 63 Development of Membrane Fouling Protection in MBR Zhu Zhengjie, Wen Zhiliang, Liang Zhihui, Lu Sihao, Fan Hongbo

- 66 The Application of Biocatalysis-flavor-technology in Aquatic Processing Wu Haiyan, Yang Lei, Li Sidong, Wang Guang, Yang Xihong

- 68 Research of Dicarbonyl Compounds in Secondary Organic Aerosol Liu Yanfen, Wang Liming

- 70 Research and Progress of Advanced Oxidation Treatment Technology for Industrial Wastewater Li Yuelan, Tan Wufeng

- 72 Review of Applications of Enzyme in Carbonyl Reduction Liu Sihua

- 74 The Application of Sucralose in Condiments Liang Ning

- 76 Progress in the Application of Haloalkynes to General Organic Synthesis Reaction Lu Zhangshun, Liang Hui, Pan Xu'en

- 78 Lagre Petrochemical Project HSE Management Liu Xuyang, Li Zhiping

- 80 The Process Technology and Market Prospect of 4-Aminodiphenylamine Xie En, Song Jingdan, Ma Liang

- 82 Sub-micron Zinc Preparative Technique and Application Yan Haijin

- 83 Discussion on Improving the Accuracy of Coal Quality Analysis Sun Hongbin

- 85 The Development and Progress of Coal Gasification Polygeneration System Xu Xin, Luo Fangtao, Lu Xuechong

- 87 Research and Development of Aerobic Granular Sludge's Friction in Remove the Nitrogen Lan Ruihui

- 89 Fireproof Protection on the Long Span Steel Structure Construction Mao Xiaojie

- 91 Research Status and Development Tread of Building Wall Insulation Material Liu Zhiping

- 93 Comprehensive Benefit Analysis of Local Power Factor Compensation Li Xiaofeng, Han Youjie

◆ Analysis testing

- 95 Two Impurity in Phenobarbital and Their Determination Sun Yanhua, Xu Ying, Han Yong, Huang Guihua

- 96 Comparison of the Determination of Chitosan Deacetylation Degree Zhang Lin, Wen Yanmei, Huang Shujuan

- 98 Determination of the Vitamin C in Fruits and Vegetables Gu Xuexian

- 99 Determination of 16 Volatile Organic Compounds in Paper Print by Headspace-gas Chromatography Xu Ning

- 102 ICP-AES Method with Multicomponent Spectral Fitting Tests Silicon Element in High Silicious Content Alloys He Yong

- 104 Evaluation of Measurement Uncertainty for the Determination of DDT in Sea Water by Gas Chromatography Ye Sihua, Yi Huaichang, Lin Songxiong, Tan Dazhi

- 107 The Research of the Choice of the Electrode for the Measurement of the Acid Value of Organic Heat Transfer Media Xie Houyue

- 108 High Performance Liquid Chromatography Method for Determination of Organic Acids Content in Litchi Huang Peicang, Wu Xin

- 110 A Comparison Research of Choosing Method of Testing Concentration of Sulfate in Water Samples Huang Fengzhen

- 112 Surface Pretreatment Methods of Heavy Metals in Monitoring Yuan Binggui, Xie Xin, Zhang Dazhou

- 113 Several Interfering Factors in Spectrophotometric Analysis Zhou Xiaoqiang

- 115 The Work Problems and the Structure of Water Quality Automatic Monitoring System of the Right River's Yanjiang in Guangxi Huangmei

- 117 Rapid Quantification of the Related Substances in Diethyl (3-pyridyl) Borane Samples by High Performance Liquid Chromatography Gong Aiqin

- 118 Study on Fluoride of Toothpaste by Determination for Ion-selective Electrode Yan Guipu, Dong Bingkun

- 119 Research Development of Elements detection in metal materials by ICP-AES Yu Lili

- 121 Chromogenic Reagent Synthesis and Research on Hg²⁺ Detection in Environmental Sample He Liangrong, Zhou Zizhuang

- 123 Development of Pesticide Residue Detection Technology Wu Yuanjian, Li Chao, Li Baocheng

- 126 Application of Chromogenic Reagent in Cu²⁺ Detection Research in Environmental Sample Zhou Zizhuang, He Liangrong

◆ Design & equipment

- 129 Application of Fiber-film Sweetening Process in LPG Sweetening Units of CNOOC Huizhou Refinery Dang Jianjun, Gong Chaobing, Hua Fei

- 131 Large Equipment Installation and Construction Technology at Narrow Space Shen Boliao

- 133 A Kind of Continuous Batch Distillation Process Liang Kun

- 136 Analysis and Treatment about Embedded Crack of Autoclave Yang Zerong

- 138 The Hazards of Liquid Ammonia Storage Tank and the Way to Deal with Xian Qiaoyan

- 140 Characteristic Analysis of Unit Layout in 12 Mt/a Huizhou Refinery Guo Yang

◆ Experience communication

- 142 Discussion on Exploration and Practice of Excellent Course Construction in Chemical Engineering Principles Shang Longan, Zhang Yanhui, Chen Xiaoning, Zhao Yingxian, Yang Zhijie

- 143 示波数据 of Analytical Chemistry Experiment Jiang Yinzhi, Xu Huoying, Gao Liping

- 145 Cultivating Innovative Postgraduate Students with Laboratory Established by University and Enterprise
Liu Zuohua, Zhou Xiaoxia, Tan Shiyu, Sun Dagui, Li Zequan, Tao Changyuan
- 147 Integration of the Experimental Platform in University of Teaching-and-Researching Type
Wang Wenqing, Yang Ming, Liu Jun
- 148 Reforming College Chemistry Experiment and Fostering Students' Comprehensive Capacity
Wang Yanqing, Zhang Hongmei, Zhou Qihua
- 150 Design and Implementation of Developmental Evaluation of the Evaluation of Chemical Experimental Education in Colleges
Guan Tingting, Wang Xixi
- 152 Exploration and Practice on the Key Course Construction of Chemical Engineering Principle
Sun Lanping, Zhao Daqing, Ma Long, Chang Xiaomei, Xu Hui
- 154 Study on Course Development of Production Technology of Organic Chemical Industry Based on Working Process in Higher Vocational Education
Tong Mengliang, Shu Junjie, Chen Dongxu
- 157 The Design of Curriculum Contents of Units Operation Oriented by Working Process Knowledge
Liu Yuan
- 159 Teaching Experience and Thoughts on Inorganic & Analytical Chemistry Curriculum
Tang Xiaolan, Zhou Xiaohua, Gong Shuhua
- 161 Thinking and Practice Superficially on How to Improve the Quality of Undergraduate Thesis
Liu Liying, Tian Yanwen
- 162 The Research on the Reforming of Environment Chemistry Teaching Method in College
Zhang Junli, Li Rongqiang
- 164 Teaching and Practice of "Technology of Green Oxidation"
Wang Huijuan, Chu Jinyu
- 166 Characteristics and Content of Polymer Materials Moulding Curriculum Design
Bai Huiyu, Liu Xiaoya
- 167 The Exploration of Teaching for Inorganic and Analytical Chemistry in Independent Colleges
Liao Yingmin
- 168 Exploration and Practice of Analytical Chemistry Experiment-teaching in Independent College
Zhang Jianhui, Yang Dongsheng, Xie Peng, Zheng Rulong
- 170 Study on the Teaching of Inorganic and Analytical Chemistry in the University of Agriculture
Li Jing
- 171 Teaching Analysis on the Composites of Polymer Matrix
Shi Bo, Liang Liang
- 172 A Primary Research of Improvement the Structural Chemistry Teaching Quality
Shi Jiancheng
- 174 Experience in the Teaching of Chemoinformatics
Zhang Wanqiang, Xu Zhihong, Wang Hongsheng
- 175 Imperial College London's MRes in Green Chemistry
Shen Yulong, Liu Lihua, Guan Junxia, Cao Wenhua
- 177 Teaching and Learning of General Chemistry Courses in Nationalities Universities
Peng Jinyun
- 179 The Cultivation Creativity Consciousness in Teaching Reform of Chemical Engineering Technology
Zeng Yonglin, Weng Feng, Lin Li
- 180 On the Exploring and Practicing of Teaching Model of Double-certificate System of Chemical Engineering and Pharmacy in High Vocational Colleges
Hong Liang
- 181 Study on Project-based Teaching of Surfactant Course in Vocational Colleges
Yang Chunhua, Chen Gang, Zhang Long, Wang Jilu
- 183 Giving Full Play to the Advantages of Higher Vocational in Training the Professionals of Xinjiang Coal Chemical Industry
Li Pei, Yi Zhaoiming
- 185 Applying Creative Thinking to Guide Reform on Practice Teaching of Pharmacy
Wu Shuangang, Chen Ying
- 187 Junior High School Chemistry Experiment Study" Ways to Improve the Teaching of Laboratory Management
Huang Yueping
- ◆ Environmental protection
- 189 Study on Treatment Butchered Sewage by H-O Process
Chen Hetian, Chen Fazhi
- 190 Exploration and Practice for the Teaching Reform of Air Pollution Control Engineering Course by the Method of Case Teaching
Zhang Yangfan, Yang Qiyong, Xie Baohua, Zhong Qin
- 192 Attention Should be Paid to the Environmental Impact Assessment of Cement Factory Construction Project in Mining
Fang Zhanqiang
- 194 The Hazards and Control of the Environmental Radioactive Contamination
Wu Wenguang
- 196 Classification and Evaluation of Environmental Hazardous Substances
Huang Minghua, Zhou Xiuqing, Huang Jingqing, He Zhirong
- 198 Wastewater Treatment of Petrochemical Terminal
Weng Yuting
- 199 The Metal Corrosion Types Protection
Bao Yuexia
- 200 Study on Biofiltration Process of Sewage Treatment Plant
Li Xin
- 202 Study Progress of Ultrasonic in Wastewater Treatment
Zhong Liqiong
- 204 Study on Application of Technology for PCB Wastewater Treatment
He Chunling
- 207 Design of Beizhou Wastewater Treatment Plant
Huang Zeliang
- 209 Research about the Wasterwater of P-dimethylaminobenzaldehyd
Cheng Xiaodong, Wu Xiuling, Du Zhangzhang, Xu Xueyan
- 210 Exploration and Practice on Teaching of Environmental Chemistry Course
Xiao Junxia, Wu Xiang
- 212 Enrichment of Vanadium from Water Leaching Solution of Stone Coal
Wang Sihua, Chen Kun, Xu Baoming, Hu Chuangqun, Du Na
- 214 Research Development of Juice Wastewater Treatment
Mei Yongjun
- 217 Study on Coking Wastewater Treatment by PAS
Shen Xingguo
- 218 Research Development of Immobilized Biotechnology Applied in Environmental Engineering
Deng Fu
- 221 The Design Features of Leachate Drainage Systems in Solid Waste Landfill
He Dan
- 222 The Study of Treatment of Azo dyes Wastewater by Lignin Active Carbon
Wang Jun, Chen Xinyi, Wu Shanwei
- 224 Research Development of Ecological Environment Quality Assessment
Ke Yanzen
- 227 Municipal Solid Waste Disposal Status and Recycling Countermeasures
Wang Airong, Chen Gang, Yu Lina, Zhu Xiuhua
- 230 Micro-electrolysis-modified Fenton Oxidation treatment of electroplating pre-treatment wastewater
Zhang Xiaoyun, Chen Xinyi, Shi Jianyun, Liu Shiyun, Wu Shanwei
- 232 Engineering Application Practice of Tannery Wastewater Treatment by SBR
Xiao Jia
- 234 Introduction to the Engineering Design of Phase I, Gushu Wastewater Treatment Plant of Shenzhen
Chen Yanyun
- 236 Building Materials and Its Pollution Production to Indoor
Zou Zhanjun
- 239 Study on Urban Landscape Water Eutrophication and the Remediation Techniques
Mo Zhuojun
- 241 The Engineering Design for Chemical Pharmaceutical Wastewater Treatment
Liu Qun, Wang Wenbiao, Xiong Lan
- 243 Discussion on the Technical of Sludge Treatment and Disposal
Luo Binyuan, Zeng Jiamin
- ◆ New Technology & New craft
- 245 Determination of Hippuric Acid and Methylhippuric Acid Isomeric Compound in Urine by High Performance Liquid Chromatography
Feng Cui Xia, Zhang Yan, Lin Liling, Zhang Caihong, Chen Jiangang
- 247 Study on the Clarification Technology of Wastewater of Alcohol Production from Sugarcane Juice by Chitosan Composite Flocculant
Zhong Yingping, Yi Ximiao, Zhang Jiayong, Zhang Yuanping, Huang Yunan
- 250 Simulation and Analysis on the Cold Storage Process with LNG Cryogenic Energy
Li Shaohong
- 252 The Piping Design of Piggable Transfer System in Lubricant Oil Plant
Huang Linsong
- 254 The Determination of the Secondary Structures of Invertase by FT-IR Spectra
Huang Jinfeng, Shen Wenjie, Liu Nengsheng, Li Zhengjun, Zhong Zhiguang, Zhai Cuipin
- 256 A Research on Test Methods for Inorganic Coatings under Marine Circumstan
Ying Liuzhi, Mo Chunsheng, Xu Limei, Ma Lin
- 258 Discuss Several Key Technologies for Alcohol Manufacture
Hu Yancheng, He Peng
- 261 Grafting of Polyacrylamide and Polystyrene onto Al₂O₃ Nanoparticles
Wang Jiasheng, Zhu Donghu, Tang Fangcheng
- 264 Preparation of Photonic Crystal Fiber and Trends
Liang Huaying
- 266 Clone and Sequential Analysis of ESAT-6 Gene of Mycobacterium
Qu Ning, Jing Yuanbao, Wang Liying
- 269 The Evaluation of Uncertainty in Measurement of Ammonia Nitrogen in Indoor Environment with Nessler's Reagent Spectrophotometry
Zhang Guixin, Xu Chuangxin, Chen Huani
- 272 Effecton of Surface Modification on Hydrophilicity TiO₂ Nano-film
Fan Hailu, Zhao Lite, Zhao Yan, Li Changming, Yin Lingsong
- 274 Discussion on Properties and Use for Methane Reforming Catalyst
Wang Zhiyan
- 277 Comprehensive Use of Hydrogen Gas Resources
Zhong Yufeng
- 279 Corrosion and Protection of steel oil tank
Xu Yangbin
- 281 Safety Valve's Installation and Use in the Petrochemical Plant
Zhang Shuiying
- 282 The Application of TRICON Anti-surge Control to the Air Compressor of Fluid Catalytic Cracking Unit
Wang Fubing
- 284 Determination of Trace Elements in Several Kinds of Vegetables of Chaozhou by FAAS
Chen Yan, Huang Junsheng, Cai Xiuying
- 286 The Production of Soft Urethane Form in the Process of Security
Ma Dongliang
- 288 The Application of U-tube Heat Exchanger Taking the Place of Floating Head Type Heat Exchanger
Wang Dongxu
- 289 The Application of MECS SAR Process Technology in Huizhou Refinery
Wei Songyuan, Wang Yongjuan
- 291 Preparation of Mono-dispersed LiFePO₄ Spheres
Wang Binshuai, Wang Junwei, Zhang Jingjie, Huang Junjie
- 293 The Application of Oil Mist Lubrication Technology in Delayed Coking Unit
Chen Yongjian, Gong Chaobing, Zhang Shaowei

Sponsor and Publisher: Guangdong Province Chemicals Institute

Editor: The Editorial Office of "Guangdong Chemical Industry" Editor in Chief: Zou Simin

Address: The Editorial Office of "Guangdong Chemical Industry", 116 Yuehua Road, Guangzhou, 510034 China

Tel/Fax: 86-20-83336009

E-mail: gdcic200@163.com

http://www.gdchem.com