国际标准连续出版物号: ISSN 1007 - 1865 国内统一连续出版物号: CN44 - 1238 /TQ

半月刊 创刊于1974年



**Guangdong Chemical Industry** 

全国石油和化工行业优秀期刊一等奖《中国核心期刊(遴选)数据库》全文收录期刊中国学术期刊综合评价数据库统计源期刊 美国《化学文摘》(CA)重点收录期刊《中国学术期刊(光盘版)》收录期刊广东省优秀科学技术期刊

2015 7

第42卷 (总第297期) 主办单位:广东省石油化工研究院

# 佛山市华联有机硅有限公司

FOSHAN HUALIAN ORGANOSILICON CO., LTD



本公司是一家专业从事有机硅产品研究、开发、生产的股份合作企业,曾是国内第一家中外合资的有机硅公司,为我国的有机硅事业的发展做出了卓有成效的贡献。为了确保最终的产品满足顾客的要求,我们已于2001年成功导入ISO9001:2000质量管理体系,对原材料选购到成品出厂以及售后服务整个过程进行持续的监控,确保最终的产品满足顾客的要求。



地址:广东省佛山市三水区乐平镇三水中心科技工业园B区13号

电话: 0757-87388188 传真: 0757-87381986

华东地区总代理:上海海谊化工有限公司

电话: 021-52915425

E-mail: fos757@vip.163.com http://www.hlyjg.com

# 广东化工

Guangdong Chemical Industry

第 42 卷 第 7 期 4 月上半月刊 (总第 297 期)

1974 年 创刊 (半月刊)

刊号 ISSN 1007 - 1865 CN 44 - 1238/TQ

- ●全国石油与化工行业优秀期刊一等奖
- ●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: 广东省广远石化集团有限公

司

主 办:广东省石油化工研究院

社 长: 麦裕良

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: 510030

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:广州家联印刷有限公司

订 购:全国各地邮局、所

邮发代号: 46-211

出版日期: 2015年4月15日

邮局全年定价:

国内 480 元; 国外 384 美元

公告: 经广东省新闻出版局批准同意, 本刊从 2012 年 7 月开始变更为半月刊。 81

82

壳聚糖载药微球的制备及其应用进展

事故率浅析我国工业压力管道各环节事故隐患

聚酯抗静电纤维专利技术综述

冯淑莹

孙晔

郑帅,张海运

## 目次

## ◆ 试验与研究

1	Pt/CeO2/RGO 复合材料的制备以及对乙醇的电	 L催化性能研究
		刘松,柯强,李苗苗
4	超临界甲苯中聚苯乙烯的降解研究	谭雅文,丁雪,刘熠斌
6	星形阳离子聚丙烯酰胺絮凝剂的应用研究	任淑霞,陈樑
8	高导热石墨烯膜的制备及研究	徐斌,杨常玲,吕永根
11	静电纺丝法制备聚己内酯纳米纤维的工艺研究	3
		李承勇,卢琼方,王虹冰,等
13	紫外线—氯化锂复合诱变吉他霉素高产菌株的	]选育
		赖珅,李维平,朱义斌,等
15	山橙的化学成分研究	吉月菊,李科凯,符翠,等
17	废弃油基钻井泥浆的生物堆肥实验研究	张红岩,房蕾,王旻煊
19	8 种丁香属植物土壤磷吸收能力比较研究	王雨萌,陈玉霞,刘磊,等
21	不同型号大孔吸附树脂对枸杞多糖纯化工艺影	响的研究
		肖珊,刘江,张淼,等
23	冷凝法治理化工厂有机废气工艺研究	李红霞
25	使用硝酸银和 LED 区分 A4 纸上的新旧指纹	王晨,倪翔,王利华,等
27	富勒烯[60]-曲酸衍生物的合成	周志,张娟
29	钙黄绿素荧光性质的研究	夏雁青, 李卫宾
31	微波辐射对淀粉化学变性反应的影响	石海信, 罗婷, 李葵, 等
33	硫酸渣中全铁分析的样品分解比对与探讨	潘菁,周郑,闻向东
35	某核电厂施工期大气 TSP、PM <sub>10</sub> 污染水平及相	
		武宝利,古晓娜,战景明,等
37	丙烯酸乳液预乳化工艺研究	赵刚磊,吴亮,仇鹏,等
39	HAZOP 分析在某终端处理厂中的应用	于挺,毛炼,彭远志
42	SNCR+COA 脱硝技术在循环流化床锅炉应用	黄光明
45	菌群 BDL 对低浓度 LAS 的降解性能初步研究	王军波,张圆,王俊达
47	带有滤光光阑的微透镜阵列制备方法	韩建崴,李源,徐珍华
49	高耐水煮性户外粉末涂料用聚酯树脂的合成	曹永沂, 陈国民
51	松香/丙烯酸酯共聚乳液的合成研究	沈斌,李彩霞
53	基于锥形量热仪试验的典型聚合物材料燃烧性	能研究
		张阳,代培刚,陈英杰,等
55	水合铝酸钙合成条件的优化研究	冯延磊
59	一种新型相容剂对 PA/ABS 合金力学性能的影	%响 蔡昭军
61	高炉烟道灰制备脱硫剂的研究	王玉伟,刘文斌,曹文,等
63	醚菌酯中一种杂质的定量分析	齐金梅,孙源顺
64	低黏度 107 硅橡胶的制备新工艺	张博,刘思佳
66	生物接触氧化法同步短程硝化反硝化影响因素	研究 涂军桥,杨华
68	剥锡废液资源回收的工业研究	陈俊
70	负极材料对磷酸铁锂电容电池性能的影响	袁峻,乔志军,傅冠生,等
•	专论与综述	
72		谭之磊, 刘建辉, 马凯, 等
74	<b>锂离子电池聚烯烃隔膜专利技术综述</b>	在 <b>一</b> 年、 对及一种 , 与 机 , 可 程星光 , 时 钢 印
76	煤制天然气经济与技术分析	陈建坡,杜翔
78	略论我国芳烃工业的现状及进展趋势	
10	"0 吃%四万压工业的%外及还成妇务	1 4/1

膜生物反应器处理医院废水的研究进展 茹改霞 86 浅析煤焦化企业的生产安全管理问题与对策 杜学良 88 90 液体双三嗪氨基二苯乙烯二磺酸类荧光增白剂的专利技术综述 方熙 生物柴油制备技术研究进展及展望 周后波,张庆英,曹顺 94 我国农村环境污染现状与对策分析 杨剑军 96 渗滤液反渗透浓缩液处理技术研究进展 何耀忠 98 酶在棉织物前处理方面的应用 陈新星 QQ 人工湿地中生物质能源的利用 张聪, 冯智, 杨卓, 等 101 化工催化剂用涂限定对于其创造性的影响——由两个专利复审案件引发 张雨, 孙文倩, 张艳稳 气浮技术用于含油污水处理的研究进展 李俊, 薛群祥, 何长明, 等 103 105 优化改进生产工艺降低能耗 赵志军 塑料导爆管生产过程中质量控制探讨 106 廖腊香 高菲菲 107 橡胶材料硫化技术的研究进展 109 酚醛泡沫生产及技术研究进展 李应平, 郑化安, 付东升, 等 水性聚氨酯胶黏剂改性研究进展 石恺, 李妍洵 111 镍基析氢阴极技术综述 李茂营 114 区伟珍 116 浅谈实验室质量控制的方法 环境保护 钱建华, 陈伟 117 臭氧—曝气生物滤池深度处理印染废水研究 中药生产废水处理工程实例 119 郭孟瑜 赵利宽, 王玉玲 121 树脂吸附法预处理糖精邻氨废水工艺研究与探讨 123 关于禽畜屠宰废水的处理工艺 施颖娜 125 城乡粪便处理模式分析 杨扬 周威,杨微,王世展 127 膜技术在离交树脂废酸回收中的应用 公路铁路项目环境影响评价中声环境功能区确认若干问题分析 龙维,于锋 常丽君 131 石化园区集中式污水处理厂建设模式探讨 133 城市污水中 PPCPs 类微量污染物的去除 **李嘉伟** 固定化细胞技术在 SBR 处理造纸废水中的应用 刘娜娜 设计与装备 管壳式换热器壳侧不同折流板形式下流体流动与传热数值模拟 138 郭梦军, 刘红姣, 晋梅 应急通信车在中国石化突发事件中的应用 王伟强、孙春媛、于学春、等 140 142 基于 Ansysworkbench 回转干燥机滚圈的应力及疲劳寿命分析 王小裕 螺旋固液分离机处理重质原油污泥的现场应用 姚万贺 144 145 精馏塔安全阀泄放量计算取值基准分析 王大军 147 大容量注射剂生产厂房工艺布局设计 张媛媛 149 从某空分项目施工图设计谈设计质量控制 赵强 150 先进控制技术在常减压装置的应用 孙滨 搅拌槽内桨叶安装高度的数值模拟 姜昊罡, 郝慧娣, 李忙刚, 等 153 某电厂低过至屏过管道支吊架检查与调整 丘垂育, 刘伟忠, 蔡创明 155 徐卜垒,安翼,刘兴蓉 157 浅谈液化石油气球罐安全设计 分析測试 159 有机溶剂稀释-电感耦合等离子体发射光谱法测定润滑油中氯含量 张文媚, 闻环, 刘慧琴 161 符哲, 王琦, 彭高卓, 等 含悬浮物地表水中硫化物测定方法的探讨

电感耦合等离子体光谱法测定鱼及鱼丸中硼元素的本底值

高效液相色谱法同时测定染发剂中 4 种苯酚类染料

水浴消解--原子荧光法同时测定沉积物中锑与硒

170 矿泉水检验方法及不良影响分析

乔秋菊, 刁春霞, 黄为红

莫永涛, 王琦, 谢意南, 等

何芸

田爽

## 投稿指南

《广东化工》为半月刊,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 气化工等举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: gdcic200@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,壳委书记)

陈炳琳(茂名新华粤石化股份有限公司 董事长兼总经理)

崔茹平(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) 吴年发(广东囊珠广业工程有限公司 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)

www.gdchem.com

《广东化工》欢迎网上在线投稿

162

164

167

气相色谱/燃烧炉/同位素比质谱方法检测尿液中睾酮的来源 172

官凌菊, 赵君军, 陈颖, 等

174 哈希测定仪 CODcr 分析方法的消解时间研究与优化 黄丽诗

176 酚二磺酸分光光度法测定硝态氮影响因素研究 李颖

179 火焰原子吸收光谱法检测 6 种饮用水中微量元素 耿薇、梁佳、吕竹筠

## 教学教改

184

路易斯结构式的探讨 180

葛跃

化工工艺学教学方法改革探讨 181

曲爱兰

183 《大气污染控制工程》课程教学改革探讨 廖银念

周坤, 郭晏华, 孙艳涛, 等

185 有机化学实验教学改革 彭东明、尹伟成、周汨、等

186 高职精细化工生产技术课程改革研究 郭怀兵

试析"环境与可持续发展"教学活动中大学生综合素质的培养 188

杨丽丽, 薛楠, 刘春玲, 等

食品专业有机化学实验教学改革的探索与实践

林业工程专业学位研究生实践教学改革研究 吴志平,杨国恩,胡云楚

189 191 师范院校《无机化学》教学中化学史的渗透

陈生科, 王毓

高素质乡村中学化学教师协同培养方案的修订和实践 192

衷明华, 严赞开, 衷田田

193 浅谈提高化学专业英语教学效果的途径 武琳

195 浅谈如何提高"高分子材料分析与测试技术"课程的教学质量

张予东, 李润明, 常海波, 等

197 药物制剂专业本科生毕业论文的人本管理 唐富山,原凌燕,周旭美

试论新时期成人高等教育的发展 198

陈丽微

200 高职食品理化检验教学改革初探 蔡真珍

202 高职《化工单元操作》课程项目化教学改革 肖雪红, 邓亚娟, 潘哲

203 项目教学法在中职教学实践中的探索——以《有机物分析》教学为例

谢漫媛, 李红霞, 张大方

## 其它

《广东化工》2015 年投稿须知(前插一) 《广东化工》征稿启事(38) 广告索引 (95) 浙江丰利通过省级企业技术中心复评(52) 浙江丰利废塑料复合材料综合 利用技术装备进入浙江省高端装备制造业发展重点领域(2015)(113)

## 本期基金项目论文(共 26 篇)

- P4 超临界甲苯中聚苯乙烯的降解研究
- PII 静电纺丝法制备聚己内酯纳米纤维的工艺研 究
- P15 山橙的化学成分研究
- P17 废弃油基钻井泥浆的生物堆肥实验研究
- P19 8 种丁香属植物土壤磷吸收能力比较研究
- P21 不同型号大孔吸附树脂对枸杞多糖纯化工艺 影响的研究
- P27 富勒烯[60]-曲酸衍生物的合成
- P31 微波辐射对淀粉化学变性反应的影响
- P47 带有滤光光阑的微透镜阵列制备方法
- P70 负极材料对磷酸铁锂电容电池性能的影响
- P72 白酒糟综合利用新技术
- P103 气浮技术用于含油污水处理的研究进展
- P167 水浴消解—原子荧光法同时测定沉积物中锑
- P172 气相色谱/燃烧炉/同位素比质谱方法检测尿 液中睾酮的来源
- P179 火焰原子吸收光谱法检测 6 种饮用水中微量 元素
- P181 化工工艺学教学方法改革探讨
- P185 有机化学实验教学改革
- P186 高职精细化工生产技术课程改革研究
- P188 试析"环境与可持续发展"教学活动中大学生 综合素质的培养
- P189 林业工程专业学位研究生实践教学改革研究
- P191 师范院校《无机化学》教学中化学史的渗透
- P192 高素质乡村中学化学教师协同培养方案的修 订和实践
- P195 浅谈如何提高"高分子材料分析与测试技术" 课程的教学质量
- P197 药物制剂专业本科生毕业论文的人本管理
- P200 高职食品理化检验教学改革初探
- P202 高职《化工单元操作》课程项目化教学改革

## **Guangdong Chemical Industry**

Vol.42 No.7

Experiment & research

(Series No.297)

Publication ISSN 1007 - 1865 

Qian Jianhua, Chen Wei

Zhao Likuan, Wang Yuling

Guo Mengyu

Shi Yingna

Yang Yang

## **Contents**

	experiment & research			
	Preparation Pt/CeO <sub>2</sub> /RGO Composite and Electrocatalytic Properties of Ethanol			ong, Ke Qiang, Li Miaomiao
4	Study on the Degradation of Polystyrene in Supercritical Toluene		Tan `	Yawen, Ding Xue, Liu Yibin
6	Application of Star Cationic Polyacrylamide			Ren Shuxia, Chen Liang
8	Preparation of High Thermal Conductivity Graphene Film		Xu Bin, Y	ang Changling, Lu Yonggen
	Study on the Fabrication Technology of Polycaprolactone Nanofibers via Electros	pinning Li Che	engyong, Lu Qiongfang, Wang Ho	ngbing, Su Weiming, He Lei
	High-producing Strain Breeding for Kitasamycin by Compound Mutation of UV F		Lai Shen, Li Weiping, Zhu Yibin,	
	Studies on the Chemical Constituents from Melodinus Suaveolens		ju, Li Kekei, Fu Cui, Chen Zhongl	
	Experimental Investigation of Treating Wasted Oil-based Drilling Slurry by Biopi			n, Fang Lei, Wang Minxuan
	Eight Kinds of Plants of the Genus Clove Absorbing Ability of Soil Phosphorus C			Yuxia, Liu Lei, Mu Liqiang
21	Study on Different Types of Macroporous Adsorption Resin Purification Effect of	Lycium Barbarum I		
			Xiao Shan, Liu Jiang, Zhar	ng Miao, Han Qing, Gao Gen
23	The Treatment Technology of the Chemical Organic Waste Gas by Condensation	Method		Li Hongxia
25	Using Silver Nitrate and LED to distinguish between Fresh and Old Fingerprints of	on Copy Paper	Wang Sheng, Ni Xiang, V	Vang Lihua, Wang Dongyang
27	Synthesis of Fullerene[60]-kojic Acid Derivative			Zhou Zhi, Zhang Juan
	Study of Calcein Fluorescence Properties			Xia Yanqing, Li Weibin
	Influence of Microwave Radiation on Chemical Modified Reaction of Starch		Shi Haixin, Luo Ting, Li Kui,	
	The Comparison and Discussion on the Analysis of Total Iron in Sulfuric Acid Sl	lag Sample		hou Zheng, Wen Xiangdong
				niou Zneng, wen Alanguong
35	Atmospheric Contaminants of TSP/PM10 and Their Correlation in Atmosphere du	iring Construction of		71 Y Y Y Y
24				na, Zhan Jingming, Yang Kai
	Study on the Preparation Technology of Pe-emulsion of Acrylic Emulsion	Zhao Ganglei, W	u Liang, Qiu Peng, Yang Wenqian	
39	The Application of HAZOP Analysis in Terminal Treatment Plant		Yu Ti	ng, Mao Lian, Peng Yuanzhi
42	The Application of Denox Technology by SNCR Adding COA in Circulating Flui	idized Bed Boiler		Huang Guangming
	The Preliminary Study on the Degradation of Performance of a Group of LAS Deg		Wang Junb	o, Zhang Yuan, Wang Junda
	Fabricating Method of Microlens Arrays with Filter Aperture	0		anwei, Li Yuan, Xu Zhenhua
	Synthesis of High Boiling Water Resistance Polyester used on Outdoor Powder C	natings		Cao Yongyi, Chen Guomin
		oatings		•
	The Research of Resin/Acrylate Copolymer Emulsion Synthesis	C.1		Shen Bin, Li Caixia
53	Study on Combustion Performance of Typical Polymeric Materials Based on Cone			
	Zhang Yang, Dai Peigang, Chen Yingjie, Zhang Zhen	ng, Luo Zhenhai, Gi	ian Jianling, Wu Lijie, Huang Xiao	
55	Optimization of the Synthesis Conditions of Alcium Aluminate Hydrate			Feng Yanlei
59	Influence of a New Compatibilizer on Mechanical Properties of PA/ABS Compos			Cai Zhaojun
61	The Research of the Blast Furnace Flue Dust Make Desulfurizer	Wang Yuwei, Li	u Wenbin, Cao Wen, Zhang Haiyir	ng, Jin Fangfang, Kang Zhiqi
	A Quantitative Analysis of the Impurity in Kresoxim-methyl			Qi Jinmei, Sun Yuanshun
	11 Quantitudit to 1 many one of the imparity in the economic meany.			
	The Preparation of Law Viscosity of 107 Silicone Rubber Using Hydrolysate Prep	aration		
64	The Preparation of Low Viscosity of 107 Silicone Rubber Using Hydrolysate Prep		Cantagt Oxidation Program	Zhang Bo, LiuSijia
64 66	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific		Contact Oxidation Process	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua
64 66 68	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater			Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun
64 66 68	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific			Zhang Bo, LiuSijia Tu Junqiao, Yang Hua
64 66 68 70	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials			Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun
64 66 68 70	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater			Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun
64 66 68 70	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials Summarize		Yuan Jun, Qiao Zhijun,	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo
64 66 68 70 • \$	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials   Summarize  New Technologies for Comprehensive Utilization of Distillers Grains		Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo ui, Ma Kai, Chen Dongdong
64 66 68 70 • \$	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials   Summarize  New Technologies for Comprehensive Utilization of Distillers Grains  Patents Technical Review of Lithium-ion Battery Polyolefin Separator		Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin
64 66 68 70 • \$ 72 74 76	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains  Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas		Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang
64 66 68 70 • \$ 72 74 76 78	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend	ation in Biological (	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming
64 66 68 70 • \$ 72 74 76 78 81	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie	ation in Biological (	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying
64 66 68 70 • \$ 72 74 76 78 81 82	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber	eation in Biological (	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun
64 66 68 70 • \$ 72 74 76 78 81 82	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie	eation in Biological (	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying
64 66 68 70 • \$ 72 74 76 78 81 82 84	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber	eation in Biological ( er fidden Danger of Ac	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun
64 66 68 70 • \$ 72 74 76 78 81 82 84 86	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials   Summarize  New Technologies for Comprehensive Utilization of Distillers Grains  Patents Technical Review of Lithium-ion Battery Polyolefin Separator  Economic and Technology Evaluation of Synthetic Natural Gas  Recent Progress of Aromatics Industry and Development Trend  Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie  Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H  Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen	er Er Gidden Danger of Ac	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia
64 66 68 70 *** *** *** *** *** *** *** ** ** ** *	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials   Summarize  New Technologies for Comprehensive Utilization of Distillers Grains  Patents Technical Review of Lithium-ion Battery Polyolefin Separator  Economic and Technology Evaluation of Synthetic Natural Gas  Recent Progress of Aromatics Industry and Development Trend  Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie  Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H  Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen  Analysis on Production Safety Management of Coal-based Enterprise and Counter	er Er Gidden Danger of Ac	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang
64 66 68 70 • \$ 72 74 76 78 81 82 84 86 88 90	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners	er Er Gidden Danger of Ac	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi
64 66 68 70 • \$ 72 74 76 78 81 82 84 86 88 90 91	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation	er Er Eidden Danger of Ac It It It It It It It It It It It It It	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 94	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures	er  Iidden Danger of Acut rmeasures  Analysis	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 94 96	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm	er  Iidden Danger of Acut rmeasures  Analysis	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Che	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong
64 66 68 70	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics	er  Iidden Danger of Acut rmeasures  Analysis	Yuan Jun, Qiao Zhijun, Tan Zhilei, Liu Jianh Cho cident Zhou Houbo	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing
64 66 68 70	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm	er  Iidden Danger of Acut rmeasures  Analysis	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo Zhang Cong, Fen	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen
64 66 68 70 • \$ 72 74 76 78 81 82 84 86 88 90 91 94 96 98 99	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics	er  Iidden Danger of Acut rmeasures  Analysis	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo Zhang Cong, Fen	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing
64 66 68 70 • \$ 72 74 76 78 81 82 84 88 90 91 94 96 98 99 101	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials   Summarize  New Technologies for Comprehensive Utilization of Distillers Grains  Patents Technical Review of Lithium-ion Battery Polyolefin Separator  Economic and Technology Evaluation of Synthetic Natural Gas  Recent Progress of Aromatics Industry and Development Trend  Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie  Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H  Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen  Analysis on Production Safety Management of Coal-based Enterprise and Counter  Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures  Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm  The Application of Enzyme in the Pretreatment of Cotton Fabrics  The Utilization of Biomass Energy in Wetland	er  Indiden Danger of Act  transporter  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo Zhang Cong, Fen	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 94 96 98 99 101 103	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics  The Utilization of Biomass Energy in Wetland  The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology	er  Indiden Danger of Act  transporter  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo  Zhang Cong, Fen, Zhang Yu, S	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 94 96 98 99 101 103 105 6	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO <sub>4</sub> Capacitor Battery by Cathode Materials   Summarize  New Technologies for Comprehensive Utilization of Distillers Grains  Patents Technical Review of Lithium-ion Battery Polyolefin Separator  Economic and Technology Evaluation of Synthetic Natural Gas  Recent Progress of Aromatics Industry and Development Trend  Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie  Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H  Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen  Analysis on Production Safety Management of Coal-based Enterprise and Counter  Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures  Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm  The Application of Enzyme in the Pretreatment of Cotton Fabrics  The Utilization of Biomass Energy in Wetland  The Patent Creativity of Uses Limited Impact of Chemical Catalyst  Research Progress of Oily Sewage with Air Flotation Technology  Optimize and Improve the Production Process to Reduce Energy Consumption	er  Iidden Danger of Acut rmeasures  Analysis ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo  Zhang Cong, Fen, Zhang Yu, S	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhen Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 103 103 103 106 106 106	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics  The Utilization of Biomass Energy in Wetland  The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology  Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonation	er  Iidden Danger of Acut rmeasures  Analysis ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo  Zhang Cong, Fen, Zhang Yu, S	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 103 103 106 106 107 107	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners The Development and Prospect of Technologies of Biodiesel Preparation The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics The Utilization of Biomass Energy in Wetland The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonatic Research Development of Vulcanization Technology of Rubber Material	er  Iidden Danger of Acut rmeasures  Analysis ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo  Zhang Cong, Fen, Zhang Yu, S	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhen Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 103 103 106 106 107 107	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners The Development and Prospect of Technologies of Biodiesel Preparation The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics The Utilization of Biomass Energy in Wetland The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonation Research Development of Vulcanization Technology of Rubber Material The Production Progress and Technology Development of Phenolic Foam	er  fidden Danger of Act  tt  rmeasures  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che  cident  Zhou Houbo  Zhang Cong, Fen Zhang Yu, S Li Jun, Xue Qunxiang, He Changr	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang Gao Feifei
64 66 68 70 72 74 76 78 81 82 84 86 88 89 90 91 94 96 98 99 100 100 100 100 100 100 100 100 100	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Biomass Energy in Wetland  The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology  Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonatic Research Development of Vulcanization Technology of Rubber Material The Production Progress and Technology Development of Phenolic Foam  Li Yingping, Zhe	er  fidden Danger of Act  tt  rmeasures  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che cident  Zhou Houbo  Zhang Cong, Fen, Zhang Yu, S	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang Gao Feifei v Xiaoli, Yang Yang, Li Xin
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 94 96 98 99 1017 103 106 107 109 109 111	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners The Development and Prospect of Technologies of Biodiesel Preparation The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Biomass Energy in Wetland The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonation Research Development of Vulcanization Technology of Rubber Material The Production Progress and Technology Development of Phenolic Foam  Li Yingping, Zhe Research and Development of Modified Waterborne Polyurethane Adhesives	er  fidden Danger of Act  tt  rmeasures  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che  cident  Zhou Houbo  Zhang Cong, Fen Zhang Yu, S Li Jun, Xue Qunxiang, He Changr	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang Gao Feifei v Xiaoli, Yang Yang, Li Xin Shi Kai, Li Yanxun
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 94 96 98 99 1017 103 106 107 109 109 111	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber  The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners  The Development and Prospect of Technologies of Biodiesel Preparation  The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Biomass Energy in Wetland  The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology  Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonatic Research Development of Vulcanization Technology of Rubber Material The Production Progress and Technology Development of Phenolic Foam  Li Yingping, Zhe	er  fidden Danger of Act  tt  rmeasures  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che  cident  Zhou Houbo  Zhang Cong, Fen Zhang Yu, S Li Jun, Xue Qunxiang, He Changr	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang Gao Feifei v Xiaoli, Yang Yang, Li Xin Shi Kai, Li Yanxun Li Maoying
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 91 94 96 98 99 101 103 100 100 100 100 100 100 100 100	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners The Development and Prospect of Technologies of Biodiesel Preparation The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Biomass Energy in Wetland The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonation Research Development of Vulcanization Technology of Rubber Material The Production Progress and Technology Development of Phenolic Foam  Li Yingping, Zhe Research and Development of Modified Waterborne Polyurethane Adhesives	er  fidden Danger of Act  tt  rmeasures  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che  cident  Zhou Houbo  Zhang Cong, Fen Zhang Yu, S Li Jun, Xue Qunxiang, He Changr	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang Gao Feifei v Xiaoli, Yang Yang, Li Xin Shi Kai, Li Yanxun
64 66 68 70 72 74 76 78 81 82 84 86 88 90 91 91 94 96 98 99 101 103 100 100 100 100 100 100 100 100	Study on the Influencing Factors of Short-cut Simultaneous Nitrification-denitrific Industrial Research on Resource Recycle of Solder Stripping Wastewater Effects on the Performance of LiFePO4 Capacitor Battery by Cathode Materials  Summarize  New Technologies for Comprehensive Utilization of Distillers Grains Patents Technical Review of Lithium-ion Battery Polyolefin Separator Economic and Technology Evaluation of Synthetic Natural Gas Recent Progress of Aromatics Industry and Development Trend Preparation Methods of Chitosan Microspheres and Its Application to Drug Carrie Review of Patent about Polyester Antistatic Fiber The Accident Rate of Industrial Pressure Pipe in Our Country Every Link of the H Research Progress of Membrane Biological Reactor in Hospital Sewage Treatmen Analysis on Production Safety Management of Coal-based Enterprise and Counter Research Progress of Liquid Traizinylaminostilbenesulfonic Type Brighteners The Development and Prospect of Technologies of Biodiesel Preparation The Current State of Our Rural Environmental Pollution and the Countermeasures Research Development of Landfill Leachate Reverse Osmosis Concentrate Treatm The Application of Enzyme in the Pretreatment of Cotton Fabrics The Utilization of Biomass Energy in Wetland The Patent Creativity of Uses Limited Impact of Chemical Catalyst Research Progress of Oily Sewage with Air Flotation Technology Optimize and Improve the Production Process to Reduce Energy Consumption Plastic Guide Discussion on Quality Control in the Production Process of Detonation Research Development of Vulcanization Technology of Rubber Material The Production Progress and Technology Development of Pubnelic Foam  Li Yingping, Zhe Research and Development of Modified Waterborne Polyurethane Adhesives Summary of Nickel-based Cathode Technology for Hydrogen Evolution	er  fidden Danger of Act  tt  rmeasures  Analysis  ent Technologies	Yuan Jun, Qiao Zhijun,  Tan Zhilei, Liu Jianh Che  cident  Zhou Houbo  Zhang Cong, Fen Zhang Yu, S Li Jun, Xue Qunxiang, He Changr	Zhang Bo, LiuSijia Tu Junqiao, Yang Hua Chen Jun Fu Guansheng, Ruan Dianbo  ui, Ma Kai, Chen Dongdong eng Xingguang, Shi Gangyin Chen Jianpo, Du Xiang Ding Ming Feng Shuying Zheng Shuai, Zhang Haiyun Sun Ye Ru Gaixia Du Xueliang Fang Xi , Zhang Qingying, Cao Shun Yang Jianjun He Yaozhong Chen Xinxing g Zhi, Yang Zhuo, Qin Zhen un Wenqian, Zhang Yanwen ning, Shen Zhe, He Zhengze Zhao Zhijun Liao Laxiang Gao Feifei v Xiaoli, Yang Yang, Li Xin Shi Kai, Li Yanxun Li Maoying

117 Study on the Advanced Treatment of Dyeing and Printing Wastewater by Using Zone-Biological Aerated Filter Technology

119 An Engineering Example of Treating Wastewater from Production of Traditional Chinese Medicine

121 Resin Adsorption Pretreatment Saccharin Ammonia Wastewater Process Research and Discussion

♦ Environmental protection

123 Treatment Process of Livestock Slaughter Wastewater

125 The Analysis of Urban and Rural Excrement Disposal Patterns

127 The Application of Membrane Technology in Recovery of Regenerative Waste Acid from Ion Exchanged Resin Zhou Wei, Yang Wei, Wang Shizhan 129 Issues Analysis Confirmed on the Acoustic Environmental Function Zoning of the Environmental Impact Assessment of Land Transport Project Long Wei, Yu Feng 131 Discussion on Construction Mode of Centralized Sewage Treatment Plant from Petrochemical Park Chang Lijun 133 Removal of PPCPs Micropollutants in Municipal Sewage Li Jiawei 135 Application of Immobilized Cell Technique to Papermaking Wastewater Treatment with SBR Liu Nana Design & equipment 138 Effect of the Different Baffles on the Numerical Simulation of Shell and Tube Heat Exchanger Guo Mengiun, Liu Hongijao, Jin Mei 140 Emergency Communications Vehicles in Emergencies of SINOPEC Wang Weiqiang, Sun Chunyuan, Yu Xuechun, Mao Wenfeng 142 Analysis Stress and Fatigue Life of the Rotary Kiln' Tire Based on Ansys Workbench Wang Xiaoyu 144 Treating Oily Sludge Produced in the Process of Heavy Crude Processing by Spiral Solid Liquid Separator Yao Wanhe 145 Calculation Benchmark Analysis of Relieving Capacity of Distillation Tower Safety Valve Wang Dajun 147 Layout Design of Large Volume Parenteral Production Plant Zhang Yuanyuan 149 Discussion of Design Quality Control Basis on an Air Separation Project Zhao Qiang 150 Application of Advanced Control System in the Atmospheric and Vacuum Distillation Unit Sun Bin 153 The Numerical Simulation of the Blade Installation Height in a Stirred Tank Jiang Haogang, Hao Huidi, Li Manggang, Li Xing, Zhu Cheng 155 Check and Adjustment of the Low Temperature Superheater to Platen Superheater Pipe's Supports and Hangers in a Power Plant Qiu Chuiyu, Liu Weizhong, Cai Chuangming 157 Discussion on the Safety Design of LPG Spherical Tank Xu Bolei, An Yi, Liu Xingrong Analysis testing 159 Determination of Trace Chlorine in Lubricating Oil with ICP-OES Organic Sample Zhang Wenmei, Wen Huan, Liu Huiqin 161 Discussion on the Method for Determination of Sulfide in Surface Water Containing Suspended Substance Fu Zhe, Wang Qi, Peng Gaozhuo, Li Liqiang Qiao Qiuju, Diao Chunxia, Huang Weihong 162 The Background Values of Boron in Fish and Fish Balls Determined by ICP 164 Simultaneous Determination of Four Phenol components in Hair Dyes by High Performance Liquid Chromatography He Yun 167 Simultaneous Determination of Antimony and Selenium in the Sediment by Nitromurlatic Acid Water Bath Digestion-Atomic Fluorescence Spectrometry Mo Yongtao, Wang Qi, Xie Yi'nan, Tian Qi, Ou Fuping, Li Liqiang 170 Mineral Water Test Methods and Adverse Effects Analysis Tian Shuang 172 Tracing the Origin of Testosterone in Urine by Gas Chromatography/Combustion/Isotope-ratio Mass Spectrometry Guan Lingju, Zhao Junjun, Chen Ying, Sun Juan, Jiang Ying, Gao Zhao, Zhang Yuan 174 Research and Optimization of Digestion Time in the COD<sub>Cr</sub> Analysis Method for HACH Determinator Huang Lishi 176 Study on the Influencing Factors of Nitrate-spectrophotometric Method with Phenol Disulfonic Acid Li Ying 179 Determination of Trace Elements in Six Drinking Water by Flame Atomic Absorption Spectrometry Geng Wei, Liang Jia, Lv Zhujun Teaching reform 181 Discussion on Teaching Reform of Chemical Engineering Technology 183 Study on Teaching Reformation of Air Pollution Control Engineering 184 Exploration and Practice on the Teaching Reform of Organic Chemical Experiment of Food Science 185 Reform of Organic Chemistry Experimental Teaching

180 Discussion on the Lewis Structure Ge Yue Qu Ailan Liao Yinnian Zhou Kun, Guo Yanhua, Sun Yantao, Deng Shiren, Zheng Yu Peng Dongming, Yin Weicheng, Zhou Mi, Deng Xiaoxiao, Lu Maofang, Wang Fudong 186 Curriculum Reform of Chemical Specialty of Fine Chemical Production Technology in Vocational Colleges **Guo Huaibing** 188 The Cultivation of College Students' Comprehensive Quality in the Course of "Environment and Sustainable Development" Teaching Activities Yang Lili, Xue Nan, Liu Chunling, Zhang Wenjie, Wang Hong 189 Study on the Practical Teaching Innovation of Professional Degree Postgraduate in Forestry Engineering Fields Wu Zhiping, Yang Guoen, Hu Yunchu 191 Integration of Chemistry History into Inorganic Chemistry Teaching in Normal College Chen Shengke, Wang Yu Zhong Minghua, Yan Zankai, Zhong Tiantian 192 Practice and Revision on Collaborative Training of High-quality Chemistry Teachers in Rural Middle School

193 A Brief Study on the Methods of Improving Teaching Effects of Chemistry Specialty English Wu Lin 195 A Simple Discussion on How to Improve the Teaching Quality of the Polymer Materials Analysis and Test Course Zhang Yudong, Li Runming, Chang Haibo, Shao Caiyun

197 Humanistic Process Management on Undergraduate Thesis in Pharmaceutical Preparation Major

198 The Development of Adult Higher Education in the New Period 200 The Exploration of Teaching-Transformation on Chemical Examination of Food in Vocational College

202 Higher Vocational "chemical unit operations" Course Project Teaching Reform

203 Exploration of Project Approach in Secondary Vocational Schools—A Case Study in Organics Analysis

Cai Zhenzhen Xiao Xuehong, Deng Yajuan, Pan Zhe

Xie Manyuan, Li Hongxia, Zhang Dafang

Tang Fushan, Yuan Lingyan, Zhou Xumei

Chen Liwei

Sponsor and Publisher: Guangdong Province Chemicals Institute

Editor: The Editorial Office of "Guangdong Chemical

E-mail: gdcic200@163.com Industry

Address: The Editorial Office of "Guangdong Chemical Industry", 116 Yuehua Road, Guangzhou, 510030 China

Tel/Fax: 86-20-83336009

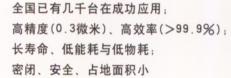
http://www.gdchem.com



## 过滤、洗涤、压干精密微孔过滤机



## 用于超细粉末活性炭、超细 固体催化剂、超细结晶体等 的过滤、洗涤、压干





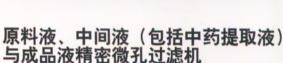
## 新型强化离子交换柱

树脂交换效果好, 避免了常规离子交换柱的 短路、沟流和树脂破碎后液体流动阻力大等 弊端:

树脂利用率高,破碎的树脂可继续使用,绝 无树脂穿漏现象:

吸附均匀,确保每一粒树脂最大限度发挥作 用, 节约洗水, 再生酸、碱用量大大减少: 树脂吸附速度快, 且更换方便,

因自动化程度高,可实现无人操作。



过滤精度(0.3微米), 高效率(>99.9%); 长寿命, 低能耗, 低物耗: 密闭、安全、占地面积小; 过滤面积:从5米2到200米2; 全国已有上千台在成功应用。



工业用层析柱

柱内径: 0.5至1.6米。

十多台大型工业层析柱已在制药企业成功应 用一年以上。

采用东瓯公司的核心技术使工业用大直径层 析柱结构简化、操作方便、效率高。

## 浙江东瓯过滤机制造 有限公司 温州市东瓯微孔过 滤有限公司

浙江省丽水市水阁工业园区石牛

路85-2号

邮编: 323000

电话: 0577-88130119 88130813

0578-2695199 2975888

传真: 0577-88138523 0578-2695198

网址: www.chinadongou.com E-mail: chinadongou@126.com

Chinadongou@sina.com

## 上海市东瓯微孔过 滤技术研究所

上海市长寿路396号7楼

邮编: 200060

电话: 021-62778862

62275792

传真: 021-52520537

E-mail:

xianhong@pubtic4.net.cn

万方数据