

吉林化学院 学报

JOURNAL OF JILIN INSTITUTE OF
CHEMICAL TECHNOLOGY

第31卷 第11期 Vol.31 No.11



2014 11

中国·吉林 JILIN·CHINA

ISSN 1007-2853



万方数据

目 次

氧解吸实验操作条件的优化研究	刘 放,王金凤 (1)
硼酸催化合成 L-(+)-酒石酸二卞酯	计海峰,王卫东,刘保雷,王国胜 (3)
四能级 AlGaN/GaN 量子级联激光器性能的影响因素研究	孙京南,孙文军 (6)
阻燃剂 PTA 的制备以及在腈纶上的应用研究	
.....	刘 群,丁 斌,郝凤岭,关 祥,李 祥,王海东 (10)
甲苯-正庚烷共沸体系萃取精馏分离的模拟与优化	包 力 (13)
咪唑型离子液体的制备与工艺优化	吉惠杰,杨英杰,郭方超 (16)
固体超强酸催化剂 $S_2O_8^{2-}/Nd_2O_3-ZrO_2-Al_2O_3$ 催化乙酸与低级醇的酯化反应研究	
.....	薛俊礼,杨英杰,姜洪民 (19)
3,4-苯并咪唑酰肼的水热合成及其结构和荧光性能表征	于晓洋,张 健,籍今野,姜洪峰 (22)
吡拉西坦缓释固体分散体的制备及体外溶出度研究	
.....	王 洁,金 刚,薛健飞,曲小妹,张 燕,展瑞岩 (25)
扑热息痛缓释固体分散体的制备及体外溶出度的研究	
.....	金 刚,王 洁,薛健飞,钟方丽,金 星,展瑞岩 (28)
酸雨条件下钙离子对油菜体内钙形态的影响	陆文龙,王振平,贾 丹 (32)
处理低温低浊水的混凝剂及助凝剂的对比应用研究	张立东,李彦文 (35)
柚皮活性成分提取工艺的研究进展	马先红,隋 新,刘 洋 (38)
南瓜中膳食纤维提取工艺的研究	张佰荣,姚 婷,孙茂成 (42)
CNC 车床加工表面粗糙度故障树分析方法研究	张学文 (46)
具有诱导凹槽薄壁圆管斜向碰撞性能分析	谭丽辉,谭洪武 (49)
100 m ³ 中压 12CrMo 储罐焊缝及其结构设计	王 鑫,王 皓,张志浩,王文革,李丽茹 (53)
电子气动记录调节器结构设计	滕加庄,李茉莉,丛 毅,杨 帆 (57)
液压切割机进给速度控制的电液比例液压系统设计	尹继英,王 皓,王毅坚 (60)
彩色图像的稀疏分解	杨 明,李茉莉,陈玲玲,李 晶 (65)
纤维素基磁性微胶囊的制备及其优化条件研究	崔 萌,王 雪,董苗卉,孟繁亮 (69)
基于约束优化问题的人工鱼群算法及其改进	孙玉杰,卢月亮,孙书贝,巩晓悦 (74)
一类二阶多点边值问题在共振条件下的可解性	张海波 (79)
批量运输与及时配送的对抗	李 岩,赵文卓 (82)
一类矩阵方程的算法研究	崔晓梅,许 洁 (85)
多元均值方差比值检验	钱有程 (87)
新型超硬正交 BN 同素异形体的第一性原理研究	张 森 (90)
稀土元素对 Ni-Cr-Al 合金高温氧化影响机理的研究	梁 婷 (94)
关于手机电磁辐射的研究	张宏琴,齐丽晶,陈殿伟 (98)

CONTENTS

Study Optimization of Operating Conditions of Oxygen Desorption Experiment	LIU Fang, WANG Jin-feng (1)
Boric Acid Catalytic Synthesis of Dibenzyl L-Tartrate	JI Hai-feng, WANG Wei-dong, LIU Bao-lei, WANG Guo-sheng (3)
Study of the Factors Influencing the Properties of four-level AlGaN/GaN Quantum Cascade Lasers	SUN Jing-nan, SUN Wen-jun (6)
Application in Polyacrylonitrile Fiber and Synthesis of PTA Intumescence Flame Retardants	LIU Qun, DING Bin, HAO Feng-ling, GUAN Chang, LI Xiang, WANG Hai-dong (10)
Simulation and Optimization of Extractive Distillationfor Toluene-N-heptane Azeotrope System	BAO Li (13)
Synthesis and Process Optimization of [bmim]BF ₄ Ionic Liquid	JI Hui-jie, YANG Ying-jie, GUO Fang-chao (16)
Esterification of Acetic Acid and Lower Alcohol Catalyzed by Rare Earth Solid Superacid Catalyst S ₂ O ₈ ²⁻ /Nd ₂ O ₃ -ZrO ₂ -Al ₂ O ₃	XUE Jun-li, YANG Ying-jie, XI Hong-min (19)
Hydrothermal Synthesis, Structure and Fluorescence Property of a Benzimidazole-3,4-hydrazide	YU Xiao-yang, ZHANG Jian, JI Jin-ye, JIANG Hong-feng (22)
Research on Preparation and in Vitro Dissolution Rate of the Sustained Release Solid Dispersions of Piracetam	WANG Jie, JIN Gang, XUE Jian-fei, QU Xiao-shu, ZHANG Yan, ZHAN Rui-yan (25)
Research on Preparation and in Vitro Dissolution Rate of the Sustained Release Solid Dispersions of Acetaminophen	JIN Gang, WANG Jie, XUE Jian-fei, ZHONG Fang-li, JIN Xing, ZHAN Rui-yan (28)
The Effect for Cabbage Calcium Form of Calcium Ions under Acid Rain	LU Wen-long, WANG Zhen-ping, JIA Dan (32)
Application for Contrast of Low Temperature and Low Turbidity Water Coagulant Treatment	ZHANG Li-dong, LI Yan-wen (35)
Research Progress on the Extraction Technology of Active Ingredients from Pomelo Peel	MA Xian-hong, SUI Xin, LIU Yang (38)
Study on Extraction of Dietary Fiber from Pumpkin	ZHANG Bai-rong, YAO Ting, SUN Mao-cheng (42)
Research on Surface Roughness Analysis Method of Fault Tree in CNC Lathe Processing	ZHANG Xue-wen (46)
The Analysis of Crashworthiness of Thin-Walled Cylinders with Induced Indentations under Oblique Load	TAN Li-hui, TAN Hong-wu (49)
Weld Seam and Structural Design of 100 m ³ Medium Voltage 12CrMo Storage Tank	WANG Xin, WANG Hao, ZHANG Zhi-hao, WANG Wen-ge, LI Li-ru (53)
Structure Design of Record Electro-pneumatic Regulator	TENG Jia-zhuang (57)
Design of Electric and Hydraulic Scale System on Feed Velocity Control for Hydraulic Cutter	YIN Ji-ying, WANG Hao, WANG Yi-jian (60)
Sparse Decomposition of Color Image	YANG Ming, LI Mo-li, CHEN Ling-ling, LI Jing (65)
Preparation and Study on Optimization of Cellulose based Magnetic Microcapsule	CUI Meng, WANG Xue, DONG Zhuo-hui, MENG Fan-liang (69)
Artificial Fish Swarm Algorithm and Its Improvement Based on Constrained Optimization Problem	SUN Wang-jie, LU Yue-liang, SUN shu-bei, GONG Xiao-yue (74)
The Solvability to a Class of Second Order Multi-point Boundary Value Problem at Resonance	ZHANG Hai-bo (79)
The Confrontation for Bulk Transport and Timely Delivery	LI Yan, ZHAO Wen-zhuo (82)
A Study of Algorithms for a Class of Matrix Equation	CUI Xiao-mei, XU Jie (85)
Multivariate mean-variance ratio test	QIAN You-cheng (87)
First-principles Study of a Novel Superhard Orthorhombic BN Allotrope	ZHANG Miao (90)
Study of Rare Earth Elements on Ni-Cr-Al Alloy High Temperature Oxidation Mechanism	LIANG Ting (94)
The Study of Phone electromagnetic radiation	ZHANG Hong-qin, QI Li-jing, CHEN Dian-wei (98)

本刊为：

- 《中国学术期刊(光盘版)》全文收录期刊
- 《中国期刊网》全文收录期刊
- “万方数据(China Info)系统科技期刊群”上网期刊
- 《中国核心期刊(遴选)数据库》收录期刊
- 《中国学术期刊综合评价数据库》源刊
- 《中国科技期刊综合评价指标数据库》源刊
- 《中国化学化工文摘》收录期刊
- 《中国无机分析化学文摘》源刊
- 美国《化学文摘》(CA)源刊

吉林化工学院学报
JILIN HUAGONG XUEYUAN XUEBAO
1984 年创刊
第 31 卷 第 11 期 2014 年 11 月出版
(总第 175 期)

JOURNAL OF JILIN INSTITUTE
OF CHEMICAL TECHNOLOGY
started in 1984
Vol.31 No.11 Nov.2014
(Total No.175)

主管单位:吉林省教育厅	Supervised by	Education Department of Jilin Province
主办单位:吉林化工学院	Sponsored by	Jilin Institute of Chemical Technology
主 编:孙秀云	Chief Editor	SUN Xiuyun
主 任:丁 力	Director	DING Li
编辑出版:吉林化工学院学报编辑部 (吉林省承德街 45 号,132022)	Edited & Published by	The Editorial Office of Journal of Jilin Institute of Chemical Technology (45,Chengde Street Jilin City China,132022)
印 刷:吉林市地矿印刷厂	Printed by	Dikuang Printing House of Jilin City
发 行:吉林化工学院学报编辑部	Distributed by	The Editorial Office of Journal of Jilin Institute of Chemical Technology

刊号: ISSN 1007-2853
CN 22-1249/TQ

网 址: <http://jhxy.chinajournal.net.cn>
E-mail: jhxy@chinajournal.net.cn

定价: 10.00 元