

数学与计算机科学

关于向量的最小多项式 ..... 郑大彬, 刘合国(349)  
 On the minimal polynomial of a vector ..... ZHENG Dabin, LIU Heguo  
 半素 PI-环的正则元 ..... 游松发(351)  
 Regular elements in semiprime PI-rings ..... YOU Songfa, ZHAO Hongyan  
 两个数论定理的群论证明 ..... 刘合国, 吴佐慧(354)  
 A group-theoretic proof of two theorems in number theory ..... LIU Heguo, WU Zuohui  
 量子外代数的  $\mathbb{Z}_2$ -Galois 覆盖的 Hochschild 上调环 ..... 汪俊(357)  
 Hochschild cohomology ring of  $\mathbb{Z}_2$ -Galois coverings of quantum exterior algebras ..... WANG Jun  
 基于一类 2 对 1 映射的序列的自相关性 ..... 揣立娟(364)  
 Autocorrelation property of binary sequences based on a class of 2-to-1 mappings ..... CHUAI Lijuan  
 一类具有二重饱和度的四分子可逆生化反应系统的定性分析 ..... 冯光庭, 杨翠红(367)  
 Qualitative study for a class of systems with four-molecule reversible biochemical reaction combining  
 a second-order saturation ..... FENG Guangting, YANG Cuihong  
 B-值随机级数的强可积性 ..... 张颖, 周娟(372)  
 Strong integrability of the B-valued random series ..... ZHANG Ying, ZHOU Juan  
 一类非线性二层规划的 Frank-Wolfe 方法 ..... 张涛, 吕一兵(375)  
 Frank-Wolfe method for solving a class of nonlinear bilevel programming problem ..... ZHANG Tao, LÜ Yibin  
 基于分块小波微粒群混合的图像智能检索 ..... 罗涛华, 沈显君(379)  
 Image intelligent retrieval with blocking wavelet and PSO ..... LUO Taohua, SHEN Xianjun  
 面向 VxWorks 的嵌入式浏览器解析和布局技术研究 ..... 杨建红, 舒江波(384)  
 Research of parsing and layout of embedded browser oriented to VxWorks ..... YANG Jianhong, SHU Jiangbo  
 可快速撤销的基于椭圆曲线的代理签名 ..... 黄月英, 禹勇, 姜建国(389)  
 A proxy signature scheme with fast revocation based on elliptic curves  
 ..... HUANG Yueying, YU Yong, JIANG Jianguo

物理学与电子技术

二次曲率引力场方程非球对称解 ..... 曹学静, 许扬, 陈贻汉(392)  
 The non-spherical symmetric solutions for the field equations of quadratic curvature gravitation  
 ..... CAO Xuejing, XU Yang, CHEN Yihan

2010年12月25日出版

# 目次

TGS 单晶电畴运动的微分回线谱分析 ..... 刘俊刁,何婉芬,罗劲明,等(395)

Differential hysteresis loop analysis for domain motion of TGS

..... LIU Jundiao, HE Wanfen, LUO Jinming, et al

基于 Richards 变换与 Kuroda 规则的微带低通滤波器的设计仿真 ..... 王汉江,吴姣,杨维明,等(398)

The design and simulation of micro-strip low-pass filter based on Richards transformation

and Kuroda rule ..... WANG Hanjiang, WU Jiao, YANG Weiming, et al

## 化学与材料科学

$\text{CH}_x\text{O}$ ( $x=1,2$ )与  $\text{NH}_y$ ( $y=0,1,2$ )自由基反应机理的理论计算 ..... 吉文欣,冀永强(403)

Theoretical calculation on the mechanisms of radical reactions between  $\text{CH}_x\text{O}$ ( $x=1,2$ ) and  $\text{NH}_y$ ( $y=0,1,2$ )

..... JI Wenxin, JI Yongqiang

粉末烧结法合成  $\text{FeSi}_2$  合金的反应机理研究 ..... 周幼华,顾豪爽(410)

The investigation on reaction mechanism of  $\text{FeSi}_2$  alloy by powder metallurgy method

..... ZHOU Youhua, GU Haoshuang

$\text{BiFeO}_3$  薄膜的 sol-gel 制备及其铁电性能研究 ..... 陈芳,李超,叶万能(414)

Sol-gel preparation and electric properties of  $\text{BiFeO}_3$  thin films ..... CHEN Fang, LI Chao, YE Wanneng

$\text{BST}$  薄膜的湿法化学刻蚀工艺优化及应用初探 ..... 黄鹤,章天金,潘瑞琨,等(418)

Processing optimization and basic application of wet chemical etching for  $\text{BST}$  thin films

..... HUANG He, ZHANG Tianjin, PAN Ruikun, et al

水介质分散法制备 EVA 热熔胶粉末 ..... 任小明,李伟博,蒋涛(422)

Preparation of hot-melt-adhesive EVA powder in aqueous medium ..... REN Xiaoming, LI Weibo, JIANG Tao

基于数值分析聚合物共挤出工艺的探讨 ..... 程蕾,闫普选(425)

Discussion on polymer coextrusive technical parameters on numerical analysis ..... CHENG Lei, YAN Puxuan

熔融共混法制备  $\text{HDPE-g-TMI}$  接枝物的研究 ..... 周威,李晓梅,蒋涛(429)

Preparation of  $\text{HDPE-g-TMI}$  graft copolymer by reactive blending method

..... ZHOU Wei, LI Xiaomei, JIANG Tao

## 生命科学与医药卫生

龟胶原蛋白的提取及结构表征(I) ..... 黄文,印大中,朱泽瑞(434)

Extraction and characterization of collagen from turtle-skin ..... HUANG Wen, YIN Dazhong, ZHU Zerui

本期执行编辑: 赵 燕

# CONTENTS

Journal of Hubei University  
Natural Science

- 绞股蓝有效成分杀灭钉螺效果和毒理研究 ..... 梁慧, 耿鹏, 倪红, 等 (438)  
Molluscicidal activity of soaking liquids of *Gynostemma* active ingredients on *Oncomelania hupensis*  
..... LIANG Hui, GENG Peng, NI Hong, et al
- 5 种乌柏籽油主要脂肪酸成分的 GC-MS 分析 ..... 靳丽, 易明晶, 陈永勤, 等 (443)  
GC-MS analysis of fatty acid components of *Sapium sebiferum* seeds from five different habitats  
..... JIN Li, YI Mingjing, CHEN Yongqin, et al
- “查虫清”防治假眼小绿叶蝉和黑翅粉虱的田间小区试验及对茶园蜘蛛的影响  
..... 全晓宇, 郝志胜, 宗三林, 等 (447)  
Field experiments of a botanical insecticides “Chachongqing” on *Empoasca vitis*, *Aleurocanthus spiniferus*  
and its effects on the spiders (Araneae) in tea garden  
..... QUAN Xiaoyu, HAO Zhisheng, ZONG Sanlin, et al
- 水稻生产氮肥需要量与利用率试验研究 ..... 许晖, 周忠清, 文举, 等 (451)  
Study on nitrogen fertilizer requirement and utilization ratio in rice production  
..... XU Hui, ZHOU Zhongqing, WEN Ju, et al
- 地理学与环境科学**
- 高效液相色谱法检测土壤中的 5 种多环芳烃 ..... 邓樱花, 孙敏, 侯汉娜, 等 (454)  
Determination of five polycyclic aromatic hydrocarbons in soil by high performance liquid  
chromatography ..... DENG Yinghua, SUN Min, HOU Hanna, et al
- 改性膨润土吸附萘的实验研究 ..... 甘莉, 李小燕, 冒亚明, 等 (458)  
Study on adsorption of naphthalin with modified bentonite ..... GAN Li, LI Xiaoyan, MAO Yaming, et al
- 福建省环三都澳区域旅游业协调发展研究  
——基于区域旅游节庆开发 ..... 郑立文, 吕群超, 谢新曦, 等 (463)  
Harmonious development of regional tourism industry in Huansanduo region of Fujian Province:  
on basis of planning of tourism festival ..... ZHENG Liwen, LÜ Qunchao, XIE Xinying, et al
- 《湖北大学学报(自然科学版)》2010 年 1-4 期目录辑览 ..... (469)