



中国科技核心期刊
RCCSE中国核心学术期刊(A)
湖北省优秀期刊
中国高校优秀科技期刊

ISSN 1000-2375
CN 42-1212/N

湖北大学

学
报

自然科学版

JOURNAL OF HUBEI UNIVERSITY
NATURAL SCIENCE

二〇二一年第四十三卷 第二期 (总第一百六十六期)



万方数据

2

2021

第43卷 第2期
Vol. 43 No. 2

现代分离分析研究专栏

离子液体分散液液微萃取-高效液相色谱分析苹果中有机磷农药残留

彭帆, 谭雨嫣, 张珊珊, 余小芳, 陈怀侠(109)

Determination of organophosphorus pesticide residues in apple by ionic liquid-dispersive liquid-liquid

microextraction with high performance liquid chromatography

PENG Fan, TAN Yuyan, ZHANG Shanshan, YU Xiaofang, CHEN Huaixia

聚(丙烯酸-乙二醇二甲基丙烯酸酯)整体柱合成及其尿样中柚皮苷和橙皮苷固相微萃取应用

张珊珊, 曹逸非, 彭帆, 余小芳, 陈怀侠(116)

Preparation and application of poly(acrylic acid-co-ethylene dimethacrylate) monolithic column for solid-phase
microextraction of naringin and hesperidin in urine

ZHANG Shanshan, CAO Yifei, PENG Fan, YU Xiaofang, CHEN Huaixia

水杨酸分子印迹聚合物整体柱合成及其固相微萃取应用 余小芳, 曹逸非, 张珊珊, 彭帆, 陈怀侠(122)

Synthesis and application of salicylic acid imprinted polymer monolithic column for solid phase microextraction

YU Xiaofang, CAO Yifei, ZHANG Shanshan, PENG Fan, CHEN Huaixia

生物结构与光学性能研究专栏

白星花金龟成虫两种体色反射光谱的差异性分析 常海珍, 彭宇, 焦晓国, 张增煮(130)

The difference of spectral reflectance between two different body colors of the adult *Protaetia brevitarsis*

Lewis, Scarabaeidae CHANG Haizhen, PENG Yu, JIAO Xiaoguo, ZHANG zengtao

生物分级结构 $\text{SnO}_2/\text{TiO}_2$ 复合催化剂的制备及光催化性能研究 何浩瀚, 陈子航, 熊娟(134)

Preparation and photocatalytic performance of $\text{SnO}_2/\text{TiO}_2$ composite catalyst with biological hierarchical structure

HE Haohan, CHEN Zihang, XIONG Juan

2021 年 3 月 5 日出版

目 次

废物处理与综合利用研究专栏

TiO₂ 和稀硫酸改性 TiO₂ 复合材料降解废水土霉素的对比研究

..... 刘晓艳, 叶中伟, 汪恂, 朱雷, 王姗, 张军华(141)

A comparative study on degradation of oxytetracycline wastewater by TiO₂ and dilute sulfuric acid modified

TiO₂ composite materials

..... LIU Xiaoyan, YE Zhongwei, WANG Xu, ZHU Lei, WANG Shan, ZHANG Junhua

武汉市禽畜养殖时空分布及其耕地污染负荷分析 齐开, 赵丽娅, 钟韩珊, 李元哲(149)

Spatial and temporal distribution of livestock breeding and farmland pollution load in Wuhan

..... QI Kai, ZHAO Liya, ZHONG Hanshan, LI Yuanzhe

资源遥感与环境监测研究专栏

基于决策树分类的水稻干旱灾损评估 薄乾祯, 陈志杰, 汪权方(155)

Drought damage evaluation of rice based on decision tree classification

..... BO Qianzhen, CHEN Zhijie, WANG Quanfang

基于主成分分析法的五排水库水质评价 梁明奇, 王敏, 朱江龙(163)

Water quality evaluation of Wupai reservoirs basedon principal component analysis

..... LIANG Mingqi, WANG Min, ZHU Jianglong

湖南省生态宜居度时空分异及影响因素研究 汤昇, 于婧, 唐业喜, 邓明蓉, 廖国志(170)

Study on the spatial and temporal variation of ecological livability in Hunan province and its influencing factors

..... TANG Bian, YU Jing, TANG Yexi, DENG Mingrong, LIAO Guozhi

CONTENTS

Journal of Hubei University
Natural Science

化学化工与材料科学

一种基于硅氧键断裂氟离子荧光探针的合成与研究 王金,徐亚杰,乔助,任君(178)

Synthesis and research of fluoride fluorescence probe based on silicon oxygen bond fragmentation

..... WANG Jin, XU Yajie, QIAO Zhu, REN Jun

青霉胺修饰的银纳米簇的制备及其在 Cu^{2+} 检测中的应用 陈宽,李娜,何瑜,宋功武(185)

D-penicillamine-templated silver nanoparticles for detection of Cu^{2+} ions

..... CHEN Kuan, LI Na, HE Yu, SONG Gongwu

基础数学与应用数学

基于非线性波动网络模型的股票市场关联特征研究 李为波,郭雪(192)

Research on the correlation characteristics of stock market based on nonlinear volatility network

..... LI Weibo, GUO Xue

具有常平均曲率的曲率子流形上一类 Schrödinger 算子的特征值估计 杜伟翎(200)

Estimates for eigenvalues of a class of Schrödinger operators on curvature submanifolds with constant mean

curvature DU Weiling

图的基尔霍夫指数的下界 言莹莹,高珊(209)

Lower bound on the Kirchhoff index of graphs YU Yingying, GAO Shan

计算机与信息工程

面向中文基础教育知识图谱的关系抽取模型 单娅辉,田迎,张龑(214)

A relation extraction model oriented to the knowledge graph of Chinese basic education

..... SHAN Yahui, TIAN Ying, ZHANG Yan

低噪声功率放大器匹配网络的噪声优化设计 王丽,沈一鸣(220)

Optimal design of RF low-noise amplifier circuit WANG Li, SHEN Yiming