



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

2

2022

第44卷 第2期
Vol. 44 No. 2

新型催化剂的制备与应用研究专栏

超声/微波一体化制备 SiO₂ 负载 Ni 催化剂及其高效催化烯烃加氢反应研究
 李茜茜,鲁新环,潘海军,严慧敏,王贝贝,张海福,周丹,夏清华(113)

Highly efficient SiO₂ supported Ni catalyst prepared by ultrasonic-microwave method for catalytic hydrogenation
 of olefins LI Xixi, LU Xinhuan, PAN Haijun, YAN Huimin, WANG Beibei,
 ZHANG Haifu, ZHOU Dan, XIA Qinghua

一种菜花状 Co_{3.2}Fe_{0.8}N/Ir 双功能电催化剂用于酸性介质水分解 ... 张紫琼,文东方,麦婉珊,胡玮(121)

Cauliflower-like Co_{3.2}Fe_{0.8}N/Ir nanocomposite as the bifunctional electrocatalyst for water splitting in acidic
 medium ZHANG Ziqiong, WEN Dongfang, MAI Wanshan, HU Wei

基因表达与蛋白质功能研究专栏

碳水化合物结合域 CBM3 对外切葡聚糖酶性质的影响 ... 胡艳梅,周姗姗,乔琦茗,李华南,江正兵(131)

The effect of carbohydrate binding domain(CBM3) on the properties of exoglucanase
 HU Yanmei, ZHOU Shanna, QIAO Qiming, LI Hua'nan, JIANG Zhengbing

XPR1 在果蝇三龄幼虫神经肌肉接头中功能初探..... 张宝雪,牛晓晓,金珊(137)

Preliminary study on the function of XPR1 in the neuromuscular junction of *Drosophila melanogaster*
 third larva..... ZHANG Baoxue, NIU Xiaoxiao, JIN Shan

方程的解研究专栏

椭圆曲线 $y = x^3 + 75x - 158$ 的整数点 马江,高丽,常青(144)

Points on the elliptic curve $y = x^3 + 75x - 158$ MA Jiang, GAO Li, CHANG Qing

一类包含完美数的欧拉函数方程的可解性 许倩,杨海,王钊(148)

Solvability of a kind of Euler function equations involving perfect numbers
 XU Qian, YANG Hai, WANG Zhao

生态系统的服务与评价研究专栏

- 基于当量因子法评估不同时期洪湖湿地生态系统服务价值 裴孟杰,陈中义,史玉虎,周文昌(154)
- Estimation of ecosystem service value of Honghu wetland in different periods based on equivalent factor method PEI Mengjie, CHEN Zhongyi, SHI Yuhu, ZHOU Wenchang
- 基于 MSPA 和 MCR 模型的襄阳市生态网络变化研究 张晴,郭志威,齐开,赵丽娅(162)
- Variation of ecological network in Xiangyang City based on MSPA and MCR model ZHANG Qing, GUO Zhiwei, QI Kai, ZHAO Liya
- 城市生态系统休闲娱乐服务受偿意愿及价值评估——以武汉市武昌区为例 郭志威,窦弘毅,刘扬,董羽吉,张晴,赵丽娅(171)
- Willingness to accept compensation for recreation services of urban ecosystem and its value assessment: a case study in the Wuchang District of Wuhan City, China GUO Zhiwei, DOU Hongyi, LIU Yang, DONG Yuji, ZHANG Qing, ZHAO Liya

生命科学与医药卫生

- 通过鸟类视觉模型研究白星花金龟成虫二型体色 张增焘,喻龙,焦晓国,常海珍(178)
- Using avian visual modeling to study the dimorphic body color of the adult *Protaetia brevitarsis* Lewis, Scarabaeidae(Protaetia) ZHANG Zengtao, YU Long, JIAO Xiaoguo, CHANG Haizhen
- 土壤调理剂对降低土壤酸性和水稻镉含量的影响 温权州,冉露,周富忠,李亚东,杨兰芳(184)
- Effects of soil conditioner on decrease of soil acidity and Cd content in rice grains WEN Quanzhou, RAN Lu, ZHOU Fuzhong, LI Yadong, YANG Lanfang

计算机与信息工程

- 多约束装配线平衡问题的知识驱动系统控制启发式算法 郑巧仙,肖晖,李明(190)

CONTENTS

Journal of Hubei University
Natural Science

Knowledge-driven system control heuristic of a multiple constraints assembly line balancing problem
..... ZHENG Qiaoxian, XIAO Hui, LI Ming

三维雷电探测系统监视软件设计与实现 李力, 聂成, 彭军(201)

Design and implementation of monitoring software for three-dimensional lightning detection system
..... LI Li, NIE Cheng, PENG Jun

化学化工与材料科学

La-MOFs 的合成及其作为“光开关”传感器检测 Cu^{2+} 的应用
..... 贺乐, 许明悦, 高海清, 肖梓伊, 李玲(209)

Synthesis of La-MOFs and the application as “turn-off” sensor for selective detection of Cu^{2+}
..... HE Le, XU Mingyue, GAO Haiqing, XIAO Ziyi, LI Ling

苯乙烯的同步硒化和烯基化反应 王利敏, 胡博, 张万轩(214)

Simultaneous selenylation and alkenylation of styrenes WANG Li Min, HU Bo, ZHANG Wanxuan
多途径调控聚乳酸发泡研究进展 王市伟, 宋彤, 梁超博, 蒋晶, 李倩(220)

Research progress of crystallization controlled PLA foamed by supercritical carbon dioxide
..... WANG Shiwei, SONG Tong, LIANG Chaobo, JIANG Jing, LI Qian

基于氧化锌薄膜的可见光完美吸收体仿真研究 杨辉, 熊娟, 杨伟佳, 杨焱, 王钊(229)

Simulation study on the optical perfect absorber in visible light based on zinc oxide thin films
..... YANG Hui, XIONG Juan, YANG Weijia, YANG Yan, WANG Zhao

地理学与环境科学

江汉平原固定资产投资的时空特征及其影响因素 刘杨洋, 余斌, 林攀(235)

Temporal and spatial characteristics of fixed assets investment in Jianghan Plain and its influencing factors
..... LIU Yangyang, YU Bin, LIN Pan

《湖北大学学报(自然科学版)》征稿启事..... 封三