



ISSN 1000-5013  
CN 35-1079/N  
CODEN HDZIEF

# 华侨大学学报

(自然 科 学 版)

JOURNAL OF HUAQIAO UNIVERSITY  
(NATURAL SCIENCE)

第 43 卷 第 6 期  
Vol. 43 No. 6

2022

中国 · 泉州 / 厦门  
CHINA • QUANZHOU / XIAMEN



公众微信号 官网二维码



华 侨 大 学 学 报  
(自然 科 学 版)

2022 年 11 月

总第 188 期 (卷终)

第 43 卷 第 6 期

目 次

功能可恢复钢框架力学性能及简化模型

..... 徐烨, 刘阳, 陈海, 苏龙辉, 陈业伟 (705)

高轴压比柱脚拉杆约束方钢管超强混凝土柱抗震性能试验

..... 季相濡, 胡红松, 许力 (712)

采用量子粒子群优化算法的风荷载作用下伞形膜结构形态优化设计

..... 孙芳锦, 苏基浩, 李智达, 张大明 (719)

运用空间句法分析的集美学村可持续性更新设计

..... 黄庆辉, 黄瑛露, 李锐鹏 (727)

海上栈道的日夜视听景观评价与对比分析

..... 徐涵, 欧达毅, 杜春雨, 廉英奇 (736)

国际户外体育空间研究进展及趋势

..... 叶静怡, 吴正旺 (743)

ABTS 强化 HRP/H<sub>2</sub>O<sub>2</sub> 体系降解吲哚的效能与机制

..... 黄亦欣, 邹景, 林金彬, 马红芳, 陈秀峰, 杨浩宇 (753)

两种石耳科多糖的理化特性及其抗炎症作用

..... 罗巅峰 (763)

雨生红球藻油柔性纳米脂质体冻干粉的制备与评价

..... 张雨凝, 郑茗冉, 贾海强, 吴振, 刘智阳, 王立强 (769)

新疆阿克苏地区景观格局与生境质量时空演变及影响机制

..... 王晓琴, 王宏卫, 谈波, 周璟, 代芯妍, 马晨 (777)

高寒草甸群落结构对不同氮素添加的响应分析

..... 刘俊杰, 王娟, 袁顺捷, 韩亚南, 刘超, 戎战磊, 高云飞, 赵传燕 (790)

单色料反射光谱曲面配色方法

..... 陈三长, 金福江, 周丽春 (799)

移动机器人全局动态路径规划融合算法

..... 葛文雅, 李平 (809)

层次匿名群签名的概念与构建

..... 程小刚, 郭韧, 周长利, 陈永红, 卢正添 (819)

后疫情时代侨情危机状况识别方法

..... 王华珍, 孙雨洁, 何霆, 陆炫羽, 刘晓聪 (825)

空间分数阶 Allen-Cahn 方程的高效算子分裂格式

..... 刘佳奇, 蔡耀雄, 翟术英 (833)

平面带形区域上一类解析函数的 Bohr 现象

..... 林珍连, 曾旭暉 (840)

第 43 卷总目次

..... ( I ~ X )

**JOURNAL OF HUAQIAO UNIVERSITY**  
**( NATURAL SCIENCE )**

**Vol. 43 No. 6**

**Sum 188 ( Volume End )**

**Nov. 2022**

## **CONTENTS**

Mechanical Properties and Simplified Model of Functionally Recoverable Steel Frame

..... XU Ye, LIU Yang, CHEN Hai, SU Longhui, CHEN Yewei (705)

Experiment on Seismic Behavior of Square Ultra-High-Strength Concrete-Filled Steel Tube

Columns With Base Restrained Tie Bars Under High Axial Load Ratio

..... JI Xiangru, HU Hongsong, XU Li (712)

Optimal Design of Umbrella-Shaped Membrane Structure Under Wind Load Using Quantum

Particle Swarm Optimization Algorithm

..... SUN Fangjin, SU Jihao, LI Zhida, ZHANG Daming (719)

Sustainable Renewal Design of Jimei School Village Based on Space Syntax Analysis

..... HUANG Chinghui, HUANG Yinglu, LI Ruipeng (727)

Evaluation and Comparative Analysis of Day-Night Audio-Visual Landscape of Sea

Plank Road

..... XU Han, OU Dayi, DU Chunyu, LIAN Yingqi (736)

International Research Progress and Trends of Outdoor Sports Space

..... YE Jingyi, WU Zhengwang (743)

Efficiency and Mechanism of ABTS Enhanced HRP/H<sub>2</sub>O<sub>2</sub> System for Indole Degradation

..... HUANG Yixin, ZOU Jing, LIN Jinbin,

MA Hongfang, CHEN Xiufeng, YANG Haoyu (753)

Properties and Anti-Inflammatory Effects of Two Polysaccharides From Umbilicariaceae

..... LUO Dianhui (763)

Preparation and Evaluation of Flexible Nano Liposome Lyophilized Powder of

Haematococcus Pluvialis Oil

..... ZHANG Yuning, ZHENG Mingran, JIA Haiqiang,

WU Zhen, LIU Zhiyang, WANG Liqiang (769)

Spatial-Temporal Evolution and Influence Mechanism of Landscape Pattern and Habitat

Quality in Aksu Region of Xingjiang

..... WANG Xiaoqin, WANG Hongwei, TAN Bo,

ZHOU Jing, DAI Xinyan, MA Chen (777)

Responses Analysis of Alpine Meadow Community Structures to Different Nitrogen

Additions

..... LIU Junjie, WANG Juan, YUAN Shunjie, HAN Ya'nan,

LIU Chao, RONG Zhanlei, GAO Yunfei, ZHAO Chuanyan (790)

Color Matching Method of Single Dye Reflection Spectrum Surface

..... CHENG Sanchang, JIN Fujiang, ZHOU Lichun (799)

Global Dynamic Path Planning Fusion Algorithm for Mobile Robot

..... GE Wenya, LI Ping (809)

Concept and Construction of Group Signature With Hierarchy Anonymity

..... CHENG Xiaogang, GUO Ren, ZHOU Changli,

CHEN Yonghong, LU Zhengtian (819)

Method for Identifying Crisis Situation of Overseas Chinese in Post-Epidemic Era

..... WANG Huazhen, SUN Yujie, HE Ting, LU Xuanyu, LIU Xiaocong (825)

High Efficient Operator Splitting Scheme of Space-Fractional Allen-Cahn Equation

..... LIU Jiaqi, CAI Yaixiong, ZHAI Shuying (833)

Bohr Phenomenon for a Kind of Analytic Functions on Plane Strip Region

..... LIN Zhenlian, ZENG Xutun (840)

Total Contents of Vol. 43

..... ( I ~ X )