

目 次

• 数理科学与化学 •

对流环境下具有额外食物资源的 Leslie-Gower 捕食者-食饵模型	杨旺, 张国洪 (001)
薄区域上随机 Ginzburg-Landau 方程的稳态测度极限行为	钟文虎, 陈光淦, 张元元 (009)
一类广义 Kirchhoff 方程基态变号解的存在性	黄婷, 晏颖, 商彦英 (018)
一类带 $p(x)$ -双调和算子的 Kirchhoff 型方程解的存在性	余颖, 储昌木, 何忠菊 (026)
芬斯勒流形上的两个重要不等式	程新跃, 张希滨 (032)
基于 BB 步长的一类原始-对偶算法	郑代秀 (040)
改进 Douglas 分裂方法求解反应扩散方程的全离散误差分析	李平, 陈浩 (048)
金属镓在 Bi(111) 表面上的吸附和合金化	卢尧臣, 张玉峰, 白萌萌, 李佐, 曹龙江, 陶敏龙 (056)

• 资源与环境科学 •

重庆中心城区臭氧浓度网格预报方法及其应用研究	吉莉, 刘晓冉, 李强 (063)
我国地理学研究的数据识别及应用特征 ——基于地理类中文核心期刊文献分析视角	王强, 丁恩俊, 刘愿理 (073)

• 工程与信息技术 •

基于生成模型的块稀疏偏差建模	斯那雨追, 余鹏彬, 王建军 (081)
温度场的有限差分计算 ——以一维温度场为例	赵锐, 杨名扬, 谈丹辉 (090)

• 教学研究与改革 •

促进深度学习的虚拟实验教学改革	彭丽宇 (102)
在通识教育课程“世界农业”中讲好中国故事	崔翠 (108)
“新工科”背景下民族高校制药设备与车间设计教学改革探索	李姗姗, 曾锐, 张齐雄, 王晓玲, 郭坤, 冯雪婷 (112)
新农科背景下长江大学生物技术国家一流本科专业人才培养模式改革与实践	谢伶俐, 陈卉, 孙文秀, 魏淑东, 许本波 (117)

JOURNAL OF SOUTHWEST CHINA NORMAL UNIVERSITY (NATURAL SCIENCE EDITION)

Vol. 48 No. 1

Total No. 310

Jan. 20, 2023

CONTENTS

Leslie-Gower Predator-Bait Model in Convective Environments with Additional Food Resources

..... YANG Wang, ZHANG Guohong (001)

Steady-State Metric Limit Behavior of the Stochastic Ginzburg-Landau Equation over a Thin Region

..... ZHONG Wenhui, CHEN Guangjian, ZHANG Yuanyuan (009)

Existence of Ground State Sign-changing Solutions for a Class of Generalized Kirchhoff Equations

..... HUANG Ting, YAN Ying, SHANG Yanying (018)

Existence of Solutions for a Class of Kirchhoff Type Equation Involving the $p(x)$ -Biharmonic Operators

..... YU Ying, CHU Changmu, HE Zhongju (026)

Two Important Inequalities on Finsler Manifolds CHENG Xinyue, ZHANG Xibin (032)

A Class of Primal-Dual Algorithms Based on BB Step Size ZHENG Daixiu (040)

Fully Discrete Error Analysis of Modified Douglas Splitting Method for Solving Reaction-Diffusion Equations

..... LI Ping, CHEN Hao (048)

Adsorption and Alloying of Gallium on Bi(111) Surface	LU Yaochen, ZHANG Yufeng, BAI Mengmeng, LI Zuo, CAO Longjiang, TAO Minlong (056)
Application of Grid Prediction of Ozone Concentration in Central Urban Area of Chongqing	JI Li, LIU Xiaoran, LI Qiang (063)
Research on Data Identification and Application Characteristics of Geographical in China ——From the Perspective of Chinese Core Journal of Geography and Literature Analysis 	WANG Qiang, Ding Enjun, LIU Yuanli (073)
Block Sparse Deviation Modeling Through Generative Models	SINA Yuzhui, YU Pengbin, WANG Jianjun (081)
Finite Differential Calculation of Temperature Fields ——One-Dimensional Temperature Field	ZHAO Rui, YANG Mingyang, DAN Danhui (090)
Discussion on the Path of Teaching Reform in Virtual Experiments Directed to Deep Learning	PENG Liyu (102)
Tell Chinese Stories Well in the General Education Course Named World Agriculture	CUI Cui (108)
Exploration on Teaching Reform of <i>Pharmaceutical Equipment and Workshop Design</i> in Universities for Nationalities under the Background of “Emerging Engineering Education”	LI Shanshan, ZENG Rui, ZHANG Qixiong, WANG Xiaoling, GUO Kun, FENG Xueting (112)
Reform and Practice of National First-Class Undergraduate Major of Biotechnology under the Background of “New Agriculture Science” in Yangtze University	XIE Lingli, CHEN Hui, SUN Wenxiu, WEI Shudong, XU Benbo (117)