

中华人民共和国教育部 主管  
西南大学 主办

西南大学学报  
JOURNAL OF SOUTHWEST UNIVERSITY  
自然科学版

NATURAL SCIENCE EDITION



中国科学引文数据库 (CSCD) 来源期刊 中文核心期刊  
中国精品科技期刊 中国高校百佳科技期刊  
RCCSE核心学术期刊 川渝一流科技期刊  
重庆市出版专项资金资助期刊

5 Vol. 44  
May 2022

# 西南大学学报

## (自然科学版)

第 44 卷 第 5 期

总第 329 期

2022 年 5 月 20 日出版

## 目 次

### · 乡村振兴专题——县域乡村建设与发展 ·

- 乡村振兴背景下易地搬迁农户社会融入测度与提升路径 ..... 朱琳, 李文琢, 廖和平, 周钰卓, 彭荣华 (002)  
重庆市县域乡村振兴水平评价及发展路径研究 ..... 杨胜强, 廖和平, 刘洛甫, 朱琳, 李东麟, 蔡智聪 (013)  
脱贫县乡村发展水平测度及空间格局研究——以重庆市城口县为例 ..... 周苗苗, 廖和平, 李涛, 朱琳, 蔡智聪, 李东麟 (023)

### · 农业与生命科学 ·

- 江西赣州柑橘衰退病毒种群构成变化研究 ..... 张兴铠, 赵金发, 王莹, 周常勇, 周彦 (035)  
有机肥部分替代化肥对生菜生长及土壤环境的影响 ..... 谢育利, 王吉平, 苏天明, 李红光, 谭伯寿, 杨文军 (041)  
特早种茶叶开采期预报模型的建立与误差分析 ..... 武强, 王旭, 方丽, 江姣, 孙恩虹, 韩旭, 陈思英 (050)  
贵州赤水河流域土壤持水特征的影响因素分析 ..... 黄兴成, 熊仕娟, 李渝, 张雅蓉, 刘彦伶, 蒋太明 (058)  
重庆武陵山生物多样性保护优先区入侵植物现状及防治对策研究 ..... 唐佳, 邓洪平, 张家辉, 胡玲, 夏常英, 左有为, 王圆圆 (065)  
基于通径分析和灰色关联分析岩原鲤形态特征与体质量的关系 ..... 闫卉果, 董智玲, 李雨, 马婷婷, 罗辉, 叶华, 何文平 (074)

### · 数理科学与化学 ·

- 基于 Gappy POD 和 WRF 模式的风速数据重构 ..... 小巴桑次仁, 索朗塔杰, 杜媛芳, 拉巴次仁 (082)  
广义 HEISENBERG-GREINER  $\rho$ -退化椭圆算子的一类带有余项的含权 Hardy 不等式 ..... 王胜军, 韩亚洲 (089)  
球对称区域上分数阶扩散方程逆源问题 ..... 耿肖肖, 程浩, 朱承澄 (097)  
不同方向外电场下 cis-HONO 分子的结构和光谱特性 ..... 梁冬梅, 荆涛, 陈亮, 邓明森 (108)  
L-色氨酸-Hg<sup>2+</sup>-青霉胺体系的荧光光谱及分析应用 ..... 闫晶晶, 张甜, 胡咏梅, 李政, 刘剑雄, 胡小莉 (119)

### · 经济研究 ·

- 风险偏好、技能水平与跨期农业技术采纳——以柑橘高接换种为例 ..... 王卫卫, 张应良 (125)  
居住流动性对消费者炫耀性消费的影响研究: 基于消费者自我建构视角 ..... 时朋飞, 李星明, 朱泽辉, 林夕力, 耿飚 (137)  
基于分形理论的乡村旅游地空间结构演化研究——以成都市星级农家乐为例 ..... 黄倩, 谢德体, 王三, 阎建忠 (147)

### · 地球与环境科学 ·

- 喀斯特山地城市生态系统服务变化及关系研究——以贵阳市为例 ..... 王秋红, 王勇, 李维杰, 高敏, 傅俐 (158)  
重庆黑山谷云海景观气象特征研究 ..... 邓承之, 周国兵, 韩潇, 周燕秋, 陈鹏, 吴志鹏, 郑武超 (169)  
基于概率统计的河北省暴雨致灾风险评估 ..... 侯奇奇, 景华, 高宇俊, 耿雪莹, 杨帅, 胡会芳 (178)

### · 工程与信息技术 ·

- 基于迭代校正的病例临床复杂度度量方法研究 ..... 陶丽, 王纯青, 张自力, 陈波 (185)  
基于加权核范数的低秩矩阵补全算法研究 ..... 石莹, 黄华, 王智, 高超 (192)  
基于颜色特征提取的四川古壁画分类识别研究 ..... 李雅梅 (203)  
基于 AHP 法的武汉市应急医疗设施选址评价研究 ..... 李帅, 唐洁芳, 王鹏飞 (209)  
从“田园城市”到“公园城市”——城市发展新范式下公众健康导向的人居环境营建 ..... 孙秀锋, 沈丽萍, 田永莲, 宁芷萱 (222)

# JOURNAL OF SOUTHWEST UNIVERSITY

## (NATURAL SCIENCE EDITION)

Vol. 44 No. 5

Total No. 329

May 20, 2022

---

## CONTENTS

- Measurement and Promotion Path of Social Integration of Relocated Farmers Under the  
Background of Rural Revitalization ..... ZHU Lin, LI Wenzhuo,  
LIAO Heping, ZHOU Yuzhuo, PENG Ronghua (002)
- Study on the Evaluation and Path of Rural Revitalization in Chongqing ..... YANG Shengqiang,  
LIAO Heping, LIULUofu, ZHU Lin, LI Donglin, CAI Zhicong (013)
- Measurement of Rural Development Level and Study of Spatial Pattern in  
Poverty Alleviation Counties ——A Case Study of Chengkou, Chongqing  
..... ZHOU Miaomiao, LIAO Heping, LI Tao, ZHU Lin, CAI Zhicong, LI Donglin (023)
- Dramatic Change in *Citrus tristeza virus* Population in Ganzhou, Jiangxi Province  
..... ZHANG Xingkai, ZHAO Jinfa, WANG Ying, ZHOU Changyong, ZHOU Yan (035)
- Effects of Partial Substitution of Chemical Fertilizers by Organic Fertilizers on  
Lettuce Growth and Soil Environment ..... XIE Yuli, WANG Jiping,  
SU Tianming, LI Hongguang, TAN Boshou, YANG Wenjun (041)
- Construction and Verification of Picking Date Prediction Model for Extremely  
Early Budding Tea Based on Meteorological Conditions ..... WU Qiang, WANG Xu,  
FANG Li, JIANG Jiao, SUN Enhong, HAN Xu, CHEN Siying (050)
- The Influencing Factors of Soil Water Holding Capacity in the Chishui River  
Basin of Guizhou ..... HUANG Xingcheng, XIONG Shijuan,  
LI Yu, ZHANG Yarong, LIU Yanling, JIANG Taiming (058)
- Researches on Invasive Plants in Biodiversity Conservation Priority Area of  
Chongqing Wuling Mountain ..... TANG Jia, DENG Hongping, ZHANG Jiahui,  
HU Ling, XIA Changying, ZUO Youwei, WANG Yuanyuan (065)
- Relationship Between Morphological Traits and Body Weight of *Procypris rabaudi* by  
Path Analysis and Grey Correlation Analysis ..... YAN Huiguo, DONG Zhiling,  
LI Yu, MA Tingting, LUO Hui, YE Hua, HE Wenping (074)
- Gappy POD and WRF-Model Based Wind Speed Data Reconstruction  
..... BASANG Tsingxiao, SUOLANG Tajie, DU Yuanfang, LHAPA Tsing (082)
- A Class of Weighted Hardy Inequalities with Remainder Terms for  
Generalized  $p$ -degenerate Sub-elliptic Heisenberg-Greiner Operators  
..... WANG Shengjun, HAN Yazhou (089)

Inverse Source Problem of Fractional Diffusion Equation on a Spherical

Symmetric Domain ..... GENG Xiaoxiao, CHENG Hao, ZHU Chengcheng (097)

Molecular Structure and Spectrum Properties of *cis*-HONO Under the

External Electric Field ..... LIANG Dongmei, JING Tao, CHEN Liang, DENG Mingsen (108)

Fluorescence Spectra and Analytical Applications of L-tryptophan-Hg<sup>2+</sup>-penicillamine System

..... YAN Jingjing, ZHANG Tian, HU Yongmei, LI Zheng, LIU Jianxiong, HU Xiaoli (119)

Risk Preference, Planting Skill and Farmer's Adoption of Intertemporal

Agricultural Technology —— An Example of “Top Grafting of Citrus”

..... WANG Weiwei, ZHANG Yingliang (125)

Research on the Impact of Residential Mobility on Consumers' Conspicuous Consumption:

Based on Consumer Self-Construction Perspective ..... SHI Pengfei,

LI Xingming, ZHU Zehui, LIN Xili, GENG Biao (137)

Research on the Spatial Structure Evolution of Rural Tourism Destinations Based on

Fractal Theory —— A Case Study of Star Farmhouse in Chengdu

..... HUANG Qian, XIE Deti, WANG San, YAN Jianzhong (147)

Change and Relationship of Ecosystem Services in Karst Mountainous Cities

——Take Guiyang as an Example ..... WANG QiuHong,

WANG Yong, LI Weijie, GAO Min, FU Li (158)

Study on Meteorological Characteristics of Sea of Clouds Landscape in

Chongqing Black Valley ..... DENG Chengzhi, ZHOU Guobing,

HAN Xiao, ZHOU Yanqiu, CHEN Peng, WU Zhipeng, ZHENG Wuchao (169)

Risk Assessment of Heavy Rain in Hebei Province Based on Probability Statistics

..... HOU Qiqi, JING Hua, GAO Yujun, GENG Xueying, YANG Shuai, HU Huifang (178)

An Iteration-Based Episode Clinical Complexity Estimation Method

..... TAO Li, WANG Chunqing, ZHANG Zili, CHEN Bo (185)

Low-Rank Matrix Completion with Weighted Nuclear Norm Regularizer

..... SHI Ying, HUANG Hua, WANG Zhi, GAO Chao (192)

Classification and Recognition of Ancient Mural Paintings in Sichuan Based on

Color Feature Extraction ..... LI Yamei (203)

Evaluation of Site Selection for Emergency Medical Facilities in Wuhan Based on

AHP Method ..... LI Shuai, TANG Jiefang, WANG Pengfei (209)

From “Garden City” to “Park City”——Construction of Public Health-oriented

Human Settlements Under the New Paradigm of Urban Development

..... SUN Xiufeng, SHEN Liping, TIAN Yonglian, NING Zhixuan (222)