

中华人民共和国教育部 主管
西南大学 主办

JOURNAL OF SOUTHWEST UNIVERSITY

西南大学学报
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
万方数据

10 Vol. 44
October 2022

西南大学学报

(自然科学版)

第 44 卷 第 10 期

总第 334 期

2022 年 10 月 20 日出版

目 次

· 老年人的情绪健康专题 ·

- 安全感与老年人受骗易感性：老化焦虑和自恋人格的作用 荀春，温静，马之遥，苏红，邵景进 (002)
老年人负性情绪的联合发展轨迹与心理资源的关系：
 基于潜类别增长的分析 麻雨婷，张宝山 (010)
社会阶层对老年人负性情绪的影响：社会支持的调节作用 黄金华，赵玉芳，林静，蒋丽娇，马星杨 (021)

· 农业与生命科学 ·

- 紫色土区典型土地利用方式下土壤碳、氮、磷生态化学计量特征分析 梁珂，何丙辉 (029)
柑橘主要砧木品种耐缺铁特性及 FRO 基因启动子特性分析 张梅，王金娟，
 高美美，王莹，罗添鸣，冯邻，罗小英，李德谋 (037)
蓝莓叶斑病病原菌鉴定及其生物学特性 杨秀梅，王丽花，张艺萍，吴学尉，周旭红 (048)
甘蓝型油菜一次分枝角度主效基因染色体定位和候选基因挖掘 井付钰，
 王瑞，徐新福，曲存民，卢坤，李加纳 (056)
重庆市部分超市鸡肉中单增李斯特菌的耐药性与分子特征分析 涂闻君，曾政，
 赵明，候峰清，蒋兵，方仁东，蒋佳利 (065)
基于 COI 基因序列的日本医蛭疑似种鉴定 余米，苏胜齐，周梦，曹敏，封孝兰 (074)

· 经济研究 ·

- 基于空间错位测度模型的旅游资源与地区经济发展关系研究 李朝军 (081)
父辈社会地位对城乡居民收入差距的影响研究 沈琼，程川 (091)
超越对数成本函数的模型设定研究——来自我国肉制品企业面板数据的实证分析 杨琴，王鹏，徐成波，郭毅 (101)

· 地球与环境科学 ·

- 青藏高原大气水循环与高原涡持续时间的关系分析 赵思玉，范广洲 (114)
湿地景观格局研究前沿热点及发展趋势 蔡剑英，王烜，李春晖，刘强，蔡宴朋 (127)
基于 SBAS-InSAR 苏通 GIL 综合管廊周边地表形变监测 周一鸣，刘国林，牛冲，张亚凤，郭在洁 (140)
郑州市气溶胶空间分布及影响因素分析 靳焕，董娜琳，雷雅凯，陈岚琪，李华威，徐兰兰 (150)

· 工程与信息技术 ·

- 一种弱监督细粒度深度网络的木材分类方法 戴天虹，谢千程，
 黄建平，孙春雪，丛士杰，黄新望，李克新 (161)
基于 Weibull 分布函数的厨余垃圾干燥过程模拟研究 鲍安红，豆玉婷，彭和，刘柯伶 (173)
基于光滑粒子流体动力学方法的土坡滑面确定与分析 胡曼，刘秋强，鲍安红，杨啸宇，高涛 (181)
基于 SSA-BP 算法的道路交通流量预测研究 姚洁，邱劲 (193)
期刊媒体融合发展研究脉络和前沿演进——基于 Citespace 软件可视化分析 周雨蕾，唐海，包颖，文娟，崔玉洁 (202)
文化生态视角下先秦时期区域人居涉水实践智慧探析 李奕成，成玉宁，祝赛男，耿华峥 (211)

期刊基本参数：CN50 - 1189/N * 1957 * m * A4 * 224 * zh * P * ¥20.00 * 1200 * 22 * 2022 - 10

JOURNAL OF SOUTHWEST UNIVERSITY

(NATURAL SCIENCE EDITION)

Vol. 44 No. 10

Total No. 334

Oct. 20, 2022

CONTENTS

Sense of Security and the Vulnerability to Fraud in Older Adults:

Effects of Aging Anxiety and Narcissistic Personality GOU Chun,
WEN Jing, MA Zhiyao, SU Hong, SHAO Jingjin (002)

Joint Trajectories of Negative Emotions and Psychological Resource in

Older Adults: An Analysis Based on Latent Class Growth Model
..... MA Yuting, ZHANG Baoshan (010)

The Effect of Social Class on Negative Affect of Older Adults:

The Moderating Role of Social Support HUANG Jinhua,
ZHAO Yufang, LIN Jing, JIANG Lijiao, MA Xingyang (021)

Soil Carbon, Nitrogen and Phosphorus Stoichiometry Characteristics under

Typical Land Uses in Purple Soil Area LIANG Ke, HE Binghui (029)

Analysis of Iron Deficiency Tolerance and *FRO* GenePromoter Characteristics of

Main Citrus Rootstock Varieties ZHANG Mei, WANG Jinjuan,
GAO Meimei, WANG Ying, LUO Tianming, FENG Lin, LUO Xiaoying, LI Demou (037)

Identification and Biological Characteristics of Pathogen Causing Leaf Spot

Disease of Blueberry YANG Xiumei,
WANG Lihua, ZHANG Yiping, WU Xuewei, ZHOU Xuhong (048)

Chromosome Location and Candidate Gene Mining of Major Genes for Primary

Branching Angle in *Brassica napus* L. JING Fuyu,
WANG Rui, XU Xinfu, QU Cunmin, LU Kun, LI Jian (056)

Drug Resistance Analysis and Molecular Characterization of *Listeria monocytogenes* in the

Chicken Meat from Some Supermarkets in Chongqing TU Wenjun, ZENG Zheng,
ZHAO Ming, HOU Fengqing, JIANG Bing, FANG Rendong, JIANG Jiali (065)

Identification of Suspected Species of *Hirudo nipponica* Based on *COI*

Gene Sequence YU Mi, SU Shengqi, ZHOU Meng, CAO Min, FENG Xiaolan (074)

| | |
|--|--|
| Study on the Relationship Between Tourism Resources and Regional Economic Development Based on Spatial Dislocation Measure Model | LI Chaojun (081) |
| A Study on the Influence of Paternal Social Status on the Income Gap between Urban and Rural Residents | SHEN Qiong, CHENG Chuan (091) |
| Study on the Model Setting of the Translog Cost Function ——An Empirical Analysis of Panel Data from Meat Enterprises in China | YANG Qin, WANG Peng, XU Chengbo, GUO Yi (101) |
| Study on the Relationship between Atmospheric Water Cycle and the Duration of Vortex over the Tibetan Plateauin | ZHAO Siyu, FAN Guangzhou (114) |
| Frontier Hotspots and Development Trend of Wetland Landscape Pattern Research ... | CAI Jianying, WANG Xuan, LI Chunhui, LIU Qiang, CAI Yanpeng (127) |
| Surface Deformation Monitoring around Sutong GIL Comprehensive Pipe Corridor based on SBAS-InSAR | ZHOU Yiming, LIU Guolin, NIU Chong, ZHANG Yafeng, GUO Zaijie (140) |
| Analysis of Aerosol Spatial Distribution and Its Influencing Factors in Zhengzhou | JIN Huan, DONG Nalin, LEI Yakai, CHEN Lanqi, LI Huawei, XU Lanlan (150) |
| A Wood Classification Method Based on Weakly Supervised Fine-grained Deep Network | DAI Tianhong, XIE Qiancheng, HANG Jianping, SUN Chunxue, CONG Shijie, HUANG Xinwang, LI Kexin (161) |
| Study on Simulation of Kitchen Waste Drying Process Based on Weibull Distribution Function | BAO Anhong, DOU Yuting, PENG He, LIU Keling (173) |
| Sliding Surface Determination and Stability Analysis of Soil Slope Based on Smoothed Particle Hydrodynamics | HU Man, LIU Qiuqiang, BAO Anhong, YANG Xiaoyu, GAO Tao (181) |
| Research on Road Traffic Flow Prediction Based on SSA-BP Algorithm | YAO Jie, QIU Jin (193) |
| Research Context and Frontier Evolution of Periodical Media Integration ——Visual Analysis Based on Citespace Software | ZHOU Yulei, TANG Hai, BAO Ying, WEN Juan, CUI Yujie (202) |
| Analysis on the Wisdom of Water Practice Involved in Regional Human Settlement in the Pre-Qin Period from Cultural Ecology Perspective | LI Yicheng, CHENG Yuning, ZHU Sainan, GENG Huazheng (211) |

西南大学学报

XINAN DAXUE XUEBAO

自然科学版(月刊) 1957年创刊

第44卷第10期(总第334期) 2022年10月出版

主管单位:中华人民共和国教育部

主办单位:西南大学

主编:王进军

副主编:周常勇 欧宾

执行编辑:夏娟;英文编辑:赵晓春

出版单位:《西南大学学报(自然科学版)》编辑部

邮编地址:400715 重庆市北碚区天生路2号

电 话:(023)68254576 68252540

网 址:<http://xbbjb.swu.edu.cn>

投稿网址:<http://xbgjxt.swu.edu.cn>

印刷单位:重庆市国丰印务有限责任公司

发行方式:公开发行

发行单位:中国邮政集团有限公司重庆市分公司(国内)

中国国际图书贸易集团有限公司(国外)

订 购:全国各地邮政公司

JOURNAL OF SOUTHWEST UNIVERSITY

Natural Science Edition (Issued Monthly) Since 1957

Vol.44 No.10(Sum No.334) October 2022

Competent Authorities: the Ministry of Education of
the People's Republic of China

Sponsor:Southwest University

Editor-in-chief:WANG Jinjun

Deputy Editor:ZHOU Changyong OU Bin

Executive Editor:XIA Juan; English Editor:ZHAO Xiaochun

Edited and Published: Journal of Southwest University

(Natural Science Edition) Editorial Department

Postcode and Address:No.2,Tiansheng Road,Beibei Chongqing,400715

Tel:(023)68254576 68252540

Web:<http://xbbjb.swu.edu.cn>

<http://xbgjxt.swu.edu.cn>

Printed:Chongqing Guofeng Printing Co.,Ltd.

Mode of Distribution:Public Offerings

Distributor:China Post Group Chongqing Branch(National)

China International Book Trading Corporation(International)

Order:Each Post Office in China



ISSN 1673-9868



国内邮发代号: 78-166

国外发行代号: BM4987

ISSN 1673-9868

CN 50-1189/N

国内定价: 20.00 元

万方数据