

## 目 次

### · 农业科学 ·

- 基于 ITS2 序列片段的药用植物栝楼及混淆品分子鉴定研究 ..... 吕泽芳, 于 杰 (001)
- 苦荞干物质及氮、磷、钾养分积累动态分析 ..... 向达兵, 宋 月,  
范 昱, 万 燕, 张宝林, 赵 钢 (007)
- 猪传染性胃肠炎病毒 M 基因酵母双杂交诱饵载体的构建及鉴定 ... 王 丽, 代先进,  
胡 洋, 叶翠芳, 董 伟, 宋 寒, 宋振辉 (013)
- 套袋对不知火果实品质和果皮类胡萝卜素代谢的影响 ..... 程春振, 黄 勇,  
张永艳, 吴 波, 闫树堂, 钟 云 (020)
- 越桔 ISSR-PCR 反应体系建立与优化 ..... 谌 月, 鲁 艳, 李 凌 (026)

### · 生命科学 ·

- 拟南芥 *AtCBF1*~3 基因提高番茄耐寒性研究 ..... 葛 歌, 金新开, 沈 辉,  
李小寒, 潘 宇, 李金华, 苏承刚, 张兴国 (034)
- 基于 IUCN 标准的重庆市重点保护野生植物濒危等级评估 ..... 王国行, 邓洪平,  
李运婷, 王 茜, 宗秀虹, 杨小艳, 黄 琴 (042)
- 重庆海石公园不同演替阶段群落木本植物凋落叶性状及与分解的关系  
..... 祝佳杏, 曾嘉庆, 党成强, 陈 淼, 陶建平 (051)
- 流量和时间对中华倒刺鲃幼鱼标准代谢率测定的影响 ..... 王 蕾, 付世建, 曾令清 (059)

### · 数理科学与化学 ·

- 包含次临界和临界 Sobolev 指数及梯度项的合作椭圆方程组 ..... 樊自安, 寇继生 (066)
- Benjamin-Bona-Mahony 方程在薄区域上的极限方程 ..... 张强恒, 朱朝生 (075)
- 可分 Asplund 空间中随机集值隐函数的下半连续性及应用 ..... 蒋观敏, 杨明歌 (081)
- Adaptive Elastic Net 方法在 Cox 模型变量选择中的研究  
..... 韦新星, 李春红, 戴洪帅 (088)
- 基于带有 3 种否定的模糊集 FScom 的自然灾害灾情评估模型研究  
..... 杨 磊, 潘正华 (095)

|                              |                          |
|------------------------------|--------------------------|
| 耦合吊桥方程指数吸引子的存在性 .....        | 罗旭东 (102)                |
| 剩余格上几类 $n$ 重模糊滤子的等价刻画 .....  | 刘莉君 (107)                |
| 硅包银纳米颗粒的制备及其光散射法检测腺苷 .....   | 李靖云, 韩国斌, 刘建萍, 李原芳 (113) |
| 原子非简谐振动对金属基外延石墨烯电导率的影响 ..... | 龙晓霞, 申凤娟 (118)           |
| 基于木瓜蛋白酶过氧化物酶活性检测谷胱甘肽 .....   | 庞妍娇, 于媛媛, 郑鹄志, 隆异娟 (125) |

• 经济研究 •

|                             |                          |
|-----------------------------|--------------------------|
| 重庆市主城区居住用地溢价率空间变异规律研究 ..... | 李 磊, 牛德利, 谷达华, 刘 勇 (131) |
|-----------------------------|--------------------------|

• 地球与环境科学 •

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| 长期施用化肥和秸秆对紫色土非交换性钾释放特性研究 .....         | 郑志斌, 江秋菊, 张跃强, 石孝均 (139)                |
| 四川盆地区雾霾灾害风险区划初探 .....                  | 卿清涛, 徐金霞, 马振峰, 孙 或 (145)                |
| 生物有机肥对黄壤烟田微生物生态特性的影响 .....             | 王彦锐, 周鑫斌, 汪代斌, 徐 宸, 王 翔, 金亚波, 李旭华 (153) |
| 土地规划中建设用地变化对耕地保护的潜在影响——以重庆市北碚区为例 ..... | 李 斐, 申丽娟, 王 三, 谢德体 (159)                |

• 工程技术 •

|                                     |                     |
|-------------------------------------|---------------------|
| 基于朴门永续理念下社区农园的生态设计解析——以阳曲农场为例 ..... | 刘 婧, 秦 华 (167)      |
| 山地城市老旧街区雨水径流可持续调控改造策略研究 .....       | 吴建鹏, 张建新, 邢佑浩 (173) |

# JOURNAL OF SOUTHWEST UNIVERSITY

## (NATURAL SCIENCE EDITION)

Vol. 39 No. 9

Total No. 273

Sep. 20, 2017

### CONTENTS

Molecular Identification of *Trichosanthes kirilowii* and Its Adulterants

Using ITS2 Sequence Fragments ..... LV Ze-fang, YU Jie (001)

Analysis of Dry Matter and NPK Accumulation in Tartary Buckwheat ..... XIANG Da-bing,

SONG Yue, FAN Yu, WAN Yan, ZHANG Bao-lin, ZHAO Gang (007)

Construction and Identification of a Bait Vector with TGEV Protein in the

Yeast Two-Hybrid System ..... WANG Li, DAI Xian-jin, HU Yang,

YE Cui-fang, DONG Wei, SONG Han, SONG Zhen-hui (013)

Effects of Bagging on Fruit Quality and Peel Carotenoid Metabolism of Shiranui

(*Citrus × Reticulata*) ..... CHENG Chun-zhen, HUANG Yong,

ZHANG Yong-yan, WU Bo, YAN Shu-tang, ZHONG Yun (020)

Establishment and Optimization of an ISSR-PCR Reaction System for

*Vaccinium* Linn. .... CHEN Yue, LU Yan, LI Ling (026)

*Arabidopsis AtCBF1~3* Genes Can Enhance the Cold Tolerance of Tomato

..... GE Ge, JIN Xin-kai, SHEN Hui, LI Xiao-han,

PAN Yu, LI Jin-hua, SU Cheng-gang, ZHANG Xing-guo (034)

An IUCN Criteria-Based Assessment of the Endangered Categories of Key Protected Wild Plants

in Chongqing Municipality ..... WANG Guo-hang, DENG Hong-ping, LI Yun-ting,

WANG Qian, ZONG Xiu-hong, YANG Xiao-yan, HUANG Qin (042)

Leaf Litter Functional Traits and Decomposition of Woody Plants at Different Community

Successional Stages in Haishi Park in Chongqing ..... ZHU Jia-xing, ZENG Jia-qing,

DANG Cheng-qiang, CHEN Miao, TAO Jian-ping (051)

The Effects of Flow Rate and Time on the Measurement of Standard Metabolic Rate in

Juvenile Qingbo (*Spinibarbus sinensis*) ..... WANG Lei, FU Shi-jian, ZENG Ling-qing (059)

On Gradient-Type Cooperative Elliptic Systems Involving Subcritical or

Critical Sobolev Exponents ..... FAN Zi-an, KOU Ji-sheng (066)

Limit Equation of the Benjamin-Bona-Mahony Equations on Thin Domains

..... ZHANG Qiang-heng, ZHU Chao-sheng (075)

|                                                                                               |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Lower Semicontinuity of Random Implicit Multifunctions and Its Applications in                |                                                                  |
| Separable Asplund Spaces .....                                                                | JIANG Guan-min, YANG Ming-ge (081)                               |
| The Study of the Adaptive Elastic Net Method in the Variable Selection of the                 |                                                                  |
| Cox Model .....                                                                               | WEI Xin-xing, LI Chun-hong, DAI Hong-shuai (088)                 |
| Research of the Evaluation Model of Natural Disasters Based on Fuzzy Set FScom with           |                                                                  |
| Three Kinds of Negation .....                                                                 | YANG Lei, PAN Zheng-hua (095)                                    |
| The Existence of Exponential Attractors for Coupled Suspension Bridge Equations               |                                                                  |
| .....                                                                                         | LUO Xu-dong (102)                                                |
| The Equivalent Characterization of Several Kinds of $n$ -Fold Fuzzy Filters in the            |                                                                  |
| Residuated Lattice .....                                                                      | LIU Li-jun (107)                                                 |
| Preparation of Ag@SiO <sub>2</sub> Nanoparticles and Detection of Adenosine by                |                                                                  |
| Light Scattering .....                                                                        | LI Jing-yun, HAN Guo-bin, LIU Jian-ping, LI Yuan-fang (113)      |
| The Effect of Atom Anharmonic Vibration on the Conductivity of Metal Matrix                   |                                                                  |
| Epitaxial Graphene .....                                                                      | LONG Xiao-xia, SHEN Feng-juan (118)                              |
| Colorimetric Detection of Glutathione Based on Peroxidase-Like Activity of Papain             |                                                                  |
| .....                                                                                         | PANG Yan-jiao, YU Yuan-yuan, ZHENG Hu-zhi, LONG Yi-juan (125)    |
| Research on Spatial Variability of Residential Land Premium Rate in the                       |                                                                  |
| Main Urban Area of Chongqing .....                                                            | LI Lei, NIU De-li, GU Da-hua, LIU Yong (131)                     |
| Study of the Effects of Long-Term Chemical Fertilization and Straw Returning on the           |                                                                  |
| Characteristics of Nonexchangeable Potassium Release in Purple Soil                           |                                                                  |
| .....                                                                                         | ZHENG Zhi-bin, JIANG Qiu-ju, ZHANG Yue-qiang, SHI Xiao-jun (139) |
| Fog-and-Haze Risk Mapping of Sichuan Basin Area .....                                         | QING Qing-tao,                                                   |
|                                                                                               | XU Jin-xia, MA Zhen-feng, SUN Yu (145)                           |
| Effect of a Bio-Organic Fertilizer on the Ecological Characteristics of Microbes in a Tobacco |                                                                  |
| Field of Yellow Soil .....                                                                    | WANG Yan-kun, ZHOU Xin-bin,                                      |
|                                                                                               | WANG Dai-bin, XU Chen, WANG Xiang, JIN Ya-bo, LI Xu-hua (153)    |
| The Potential Impact of Construction Land Changes in Land Use Planning on Arable              |                                                                  |
| Land Protection ——A Case Study of Beibei District of Chongqing Municipality                   |                                                                  |
| .....                                                                                         | LI Fei, SHEN Li-juan, WANG San, XIE De-ti (159)                  |
| Analysis of Ecological Design of Community-Supported Agriculture Based on                     |                                                                  |
| Permaculture with Yangqu Farm as an Example .....                                             | LIU Jing, QIN Hua (167)                                          |
| On Strategies for Sustainable Transformation of Rainwater Runoff in the Old Blocks in         |                                                                  |
| Mountainous Cities .....                                                                      | WU Jian-peng, ZHANG Jian-lin, XING You-hao (173)                 |