

### 目次

#### 种子生物学专题 (特邀主编: 赵光武)

基于转录组和蛋白组数据联合分析浅光休眠烟草种子暗萌发的分子网络

..... 刘一灵, 刘奇源, 董 帅, 张 氏, 罗 燕, 李振华 (237)

耐贮水稻种质资源的筛选及生理特性

..... 丁云倩, 朱庆祥, 汤郑豪, 金 鹏, 李欣泽, 王晓敏, 赵光武 (244)

活性氧在种子萌发过程中的作用研究进展 ..... 李 敏, 何 勇 (254)

#### 研究论文

模拟家畜不同采食强度下高寒草甸土壤水解酶活性的变化特征

..... 张 振, 梁海彬, 陈有超, 吴晓芬, 蔡延江 (265)

纳帕海典型草甸群落土壤有机碳储量及碳组分变化特征

..... 刘 攀, 陆 梅, 李 聪, 吕晶花, 杨志东, 赵旭燕, 陈志明 (274)

土壤养分异质性对入侵植物节节麦与小麦竞争关系的影响 ..... 王 宁, 付亚军, 邵 靖, 薛云云 (285)

海绵热解炭固定化微生物吸附-降解餐饮废水中油脂的研究

..... 马淑雯, 刘 鑫, 周小琴, 方晓波, 郑华宝, 毛浩楠, 杨 雨, 孟祺绅, 张 成 (293)

腐熟花生壳和腐植酸复合园林废弃物堆肥对紫苏出苗的影响 ..... 宋天宇, 张 璐 (304)

毛竹 *Ph-TEIncRNA1* 的鉴定及对靶基因的调控 ..... 赵佳敏, 余 璐, 丁一倩, 周明兵 (314)

白及种质资源遗传多样性分析 ..... 王 洁, 朱锡彭, 王腾斐, 朱建军, 李文俊, 邢丙聪, 郑 颖 (321)

紫薇 *LiCMB1* 基因的克隆及表达特性分析 ..... 尚林雪, 王 群, 张国哲, 赵 雨, 顾翠花 (330)

间作模式对社区花园可食植物生理特性及铅吸收的影响

..... 颜 越, 金荷仙, 王 瑛, 陈超怡, 范颖佳, 柳 丹 (338)

文冠果不同种质资源的叶片解剖结构分析及抗旱性评价

..... 许慧慧, 刘肖娟, 王孟珂, 毕泉鑫, 王利兵, 于海燕 (348)

光强对菘蓝生长、化学成分及抗氧化活性的影响

..... 李鑫垚, 黄佳彬, 郭巧生, 刘俐君, 龚 敏, 苏 勇, 陆李仙, 赵 坤 (356)

乐昌含笑种源不同林龄生长变异及早期选择 ..... 韦如萍, 晏 姝, 郑会全, 王润辉, 胡德活 (365)

广宁红花油茶优树综合评价及指标筛选 ..... 张 恒, 袁 汕, 傅志强, 陈锐帆, 申春晖, 奚如春 (374)

伊犁河谷小叶白蜡当年生枝条生长调节特征 ..... 李东育, 俞 玉, 许 顺, 温兵霞, 施如康, 韩大勇 (382)

额敏县新疆野苹果种群空间分布格局及其关联性

..... 曹 羚, 金晟康, 叶尔江·拜克吐尔汉, 努尔斯娅·阿不都热苏力, 车 畅 (390)

天山-帕米尔地区生态安全格局时空演变及其影响因素 ..... 邓 卓, 李文静, 张豫芳, 董 晔 (398)

南京市域绿地格局时空演变特征及其影响因素 ..... 许 浩, 李 蔚, 刘 伟, 王成康 (407)

云南省 2000—2020 年石漠化时空演变分析 ..... 陈 棋, 张 超, 田湘云, 史小蓉, 张玉薇, 王 妍 (417)

4 种遥感数据时空融合模型生成高分辨率归一化植被指数的对比分析

..... 李思源, 叶真妮, 毛勇伟, 陈玉玲, 曾 纳 (427)

基于消费级双目相机的立木因子测量方法 ..... 尹 萍, 徐爱俊, 叶俊华, 夏 芳, 王泽华 (436)

不同竹龄和部位对毛竹纤维形态及结晶度的影响

..... 牛思杰, 王 娜, 崔百祥, 王传贵, 武 恒, 张双燕 (446)

#### 文献综述

果园废弃物生物质炭在果园中应用效果的研究进展

..... 张 弼, 方先芝, 马嘉伟, 吴愉萍, 潘 贤, 叶黎挺, 柳 丹, 叶正钱 (453)

## Contents

- Analysis of molecular networks for dark germination of shallow photodormant *Nicotiana tabacum* seeds based on transcriptomic and proteomic data ..... LIU Yiling, LIU Qiyuan, DONG Shuai, et al. (237)
- Screening and physiological characteristics of storable *Oryza sativa* germplasm resources ..... DING Yunqian, ZHU Qingxiang, TANG Zhenghao, et al. (244)
- Research progress on the role of reactive oxygen species in seed germination ..... LI Min, HE Yong (254)
- Responses of soil enzyme activities to different defoliation intensities in alpine meadow ..... ZHANG Zhen, LIANG Haibin, CHEN Youchao, et al. (265)
- Changes of soil organic carbon storage and carbon components in typical meadow communities in Napahai ..... LIU Pan, LU Mei, LI Cong, et al. (274)
- Effects of soil nutrient heterogeneity on competition between *Aegilops tauschii* and *Triticum aestivum* ..... WANG Ning, FU Yajun, SHAO Jing, et al. (285)
- Adsorption-degradation of oil in catering wastewater by the microorganism immobilized on sponge pyrolytic carbon ..... MA Shuwen, LIU Xin, ZHOU Xiaoqin, et al. (293)
- Effect of green waste compost combined decomposed peanut shells and humic acid on seedling emergence of *Perilla frutescens* ..... SONG Tianyu, ZHANG Lu (304)
- Identification of *Ph-TEIncRNA1* in *Phyllostachys edulis* and its regulation of target genes ..... ZHAO Jiamin, YU Lu, DING Yiqian, et al. (314)
- Genetic diversity analysis of *Bletilla striata* germplasm by ISSR and SRAP markers ..... WANG Jie, ZHU Xipeng, WANG Tengfei, et al. (321)
- Cloning and expression characteristics of *LiCMB1* gene in *Lagerstroemia indica* ..... SHANG Linxue, WANG Qun, ZHANG Guozhe, et al. (330)
- Effects of intercropping patterns on physiological characteristics and Pb uptake of edible plants in community gardens ..... YAN Yue, JIN Hexian, WANG Ying, et al. (338)
- Leaf anatomical structure and evaluation of drought resistance of different germplasm resources of *Xanthoceras sorbifolium* ..... XU Huihui, LIU Xiaojuan, WANG Mengke, et al. (348)
- Effects of light intensity on growth, chemical composition and antioxidant activity of *Isatis indigotica* ..... LI Xinyao, HUANG Jiabin, GUO Qiaosheng, et al. (356)
- Growth variation of *Michelia chapensis* provenance in different ages and its early selection ..... WEI Ruping, YAN Shu, ZHENG Huiquan, et al. (365)
- Comprehensive evaluation and index screening of excellent plants of *Camellia semiserrata* ..... ZHANG Heng, YUAN Shan, FU Zhiqiang, et al. (374)
- Growth regulation characteristics of current-year shoots of *Fraxinus sogdiana* in Yili River Valley ..... LI Dongyu, YU Yu, XU Shun, et al. (382)
- Spatial pattern and correlation of *Malus sieversii* population in Emin County ..... CAO Ling, JIN Shengkang, Yeerjiang Baiketuherhan, et al. (390)
- Spatio-temporal evolution of ecological security pattern and its influencing factors in Tianshan-Pamir region ..... DENG Zhuo, LI Wenjing, ZHANG Yufang, et al. (398)
- Spatio-temporal evolution of Nanjing's urban green space pattern and its influencing factors ..... XU Hao, LI Wei, LIU Wei, et al. (407)
- Spatio-temporal evolution process of rocky desertification in Yunnan Province from 2000 to 2020 ..... CHEN Qi, ZHANG Chao, TIAN Xiangyun, et al. (417)
- Comparison of four fusion models for generating high spatio-temporal resolution NDVI ..... LI Siyuan, YE Zhenni, MAO Yongwei, et al. (427)
- Measuring method of tree attributes based on consumer-grade binocular camera ..... YIN Ping, XU Aijun, YE Junhua, et al. (436)
- Effects of different ages and positions on fiber morphology and crystallinity of *Phyllostachys edulis* ..... NIU Sijie, WANG Na, CUI Baixiang, et al. (446)
- Review**
- Research progress on application effect of orchard waste biochar in orchard ..... ZHANG Bi, FANG Xianzhi, MA Jiawei, et al. (453)