

目次

● 作物栽培·遗传育种

水稻直播适应性的遗传基础与育种策略

..... 闫晓霞, 王 丰, 柳武革, 廖亦龙, 朱满山, 付崇允, 霍 兴, 刘迪林 (1)

硝态氮和铵态氮对玉米幼苗中吡虫啉积累和分配的影响

..... 何 琴, 张兴兴, 赖鉴添, 邵丹青, 周宇明, 申建梅, 卢颖林, 安玉兴 (14)

三七各器官 Cu、Cr、Cd、Pb 含量特征及其健康风险评价

..... 郭 婷, 何忠俊, 李冬雪, 李昕悦, 梁社往, 熊俊芬, 洪常青 (22)

● 园艺林学

龙眼种质资源果实性状多样性分析 郭栋梁, 王 静, 黄石连, 韩冬梅, 李建光 (30)

菠萝 *AcMADS41* 基因的克隆及其在花发育中的表达分析

..... 郑雪文, 欧阳嫣惟, 潘晓璐, 张红娜, 杨转英 (42)

基于 GIS 和空间自相关模型的南宁市林地空间变化研究 周海菊, 胡靓达, 喻素芳 (51)

● 土壤肥料·资源环境

海拔对藏东南山地土壤有机碳垂直分布格局的影响分析 黄莎琳, 李 晶, 杨文姬, 林田苗, 喻 武 (62)

磺胺类抗生素在畜禽粪便-土壤-植物-水系统中迁移转化研究

..... 余伟达, 丘锦荣, 王秀娟, 夏 迪, 蔡倩怡, 曾经文, 周建利 (70)

尾巨桉与灰木莲、香樟楠混交对土壤养分及酶活性的影响 刘 军, 毛 纯, 韩小美, 杨 梅 (78)

● 植物保护

广东怀集青心菊炭疽病病原菌的分子鉴定

..... 崔一平, 李一方, 彭埃天, 宋晓兵, 凌金锋, 黄 峰, 陈 霞 (87)

生防菌组合防控精品西瓜枯萎病的效果初探

.....蓝建荣,黄杰豪,黄石连,李锦旋,田凯,刘青,吴健雄,郑丽(94)

干热处理对白菜种传黑腐病抑菌效果评价

.....岳鑫璐,梁根,李志强,李平东,刘珍,彭李亚,杨婉琼,胡茂林(105)

昆虫气味受体研究进展祁全梅,李秋荣(111)

● 畜牧兽医·水产养殖

利用 GST pull-down 联合质谱技术鉴定 H7N9 禽流感病毒 PA-X 的互作蛋白

.....徐国双,姜童潇,郭艺迪,段铭,张茂林,关振宏(121)

罗非鱼高密度养殖池塘底泥微生物对不同碳源的代谢特征.....王森,衣萌萌,王瑞宁,卢迈新(128)

盐度、温度和光照对广西沿海牟氏角毛藻生长的影响

.....朱昔恩,林原有,项桂德,熊建华,陈田聪,陈晓汉,张彬(136)

● 贮藏加工·质量安全

干燥方式对九制陈皮挥发性风味物质的影响

.....陈树鹏,刘昊澄,杨婉媛,余元善,傅曼琴,卜智斌,梁楚璇(142)

● 农业工程·信息技术·农业经济

基于 CI-600 的绿萝根系生长状态监测刘烁玲,胡煜,王卫星,孙道宗,林伟君(151)

图像分割算法在肉鸡深度图集上的研究.....李西明,赵泽勇,吴精乙,黄永鼎,高月芳,温嘉勇(159)

基于国内先进城市比较视角的都市农业经济发展战略思路与路径——以广州为例.....佟宇竞(167)

主管:广东省农业科学院

主办:广东省农业科学院
华南农业大学

协办:广州市农业科学研究院

广州花卉研究中心

深圳市农业科技促进中心

广东现代金穗种业有限公司

特邀编委:

张华 广州市农业科学研究院 院长 研究员

周晓云 广州花卉研究中心 副主任 高级农艺师

张森泉 深圳市农业科技促进中心 副主任 研究员

张衍荣 广东现代金穗种业有限公司 总经理 博士 研究员

GUANGDONG AGRICULTURAL SCIENCES

(Monthly)

Vol. 49 No. 1 Jan. 2022

MAIN CONTENTS

● Crop Cultivation · Genetic Breeding

Genetic Basis of Direct Seeding Adaptability in Rice and its Breeding Strategy

.....YAN Xiaoxia, WANG Feng, LIU Wuge, LIAO Yilong, ZHU Manshan, FU Chongyun, HUO Xing, LIU Dilin (1)

Effects of Nitrate and Ammonium Nitrogen on the Accumulation and Distribution of Imidacloprid in Maize Seedlings

... HE Qin, ZHANG Xingxing, LAI Jiantian, SHAO Danqin, ZHOU Yuming, SHEN Jianmei, LU Yinglin, AN Yuxing (14)

Content Characteristics and Health Risk Assessment of Heavy Metals in Various Organs of *Panax notoginseng*

.....GUO Ting, HE Zhongjun, LI Dongxue, LI Xinyue, LIANG Shewang, XIONG Junfen, HONG Changqing (22)

● Horticulture & Forestry

Analysis on Fruit Character Diversity of Longan (*Dimocarpus longan* Lour) Germplasm Resources

..... GUO Dongliang, WANG Jing, HUANG Shilian, HAN Dongmei, LI Jianguang (30)

Analysis on Cloning of *AcMADS14* Gene and Its Expression During Flower Development of Pineapple

.....ZHENG Xuwen, OUYANG Yanwei, PAN Xiaolu, ZHANG Hongna, YANG Zhuanying (42)

Research on Spatial Change of Forestland in Nanning City Based on GIS Platform and Spatial Autocorrelation

Model ZHOU Haiju, HU Jingda, YU Sufang (51)

● Soil & Fertilizer · Resources & Environment

Analysis of Impact of Altitude on Vertical Distribution Pattern of Soil Organic Carbon in Mountainous Regions of

Southeastern Tibet HUANG Shalin, LI Jing, YANG Wenji, LIN Tianmiao, YU Wu (62)

Study on Migration and Transformation of Sulfonamide Antibiotics in Livestock Manure–Soil–Plant–Water Systems

..... YU Weida, QIU Qingrong, WANG Xiujuan, XIA Di, CAI Qianyi, ZENG Jinwen, ZHOU Jianli (70)

Effects of Mixed *Eucalyptus urophylla* × *E. grandis* with *Manglietia conifera* and *Michelia hedyosperma* on Soil

Nutrients and Enzyme Activities LIU Jun, MAO Chun, HAN Xiaomei, YANG Mei (78)

● Plant Protection

Molecular Identification of Anthracnose Pathogen of *Chrysanthemum* in Huaiji, Guangdong Province

..... CUI Yiping, LI Yifang, PENG Aitian, SONG Xiaobing, LING Jinfeng, HUANG Feng, CHEN Xia (87)

A Preliminary Study on the Effects of Combination of Biocontrol Agents Against Watermelon Fusarium Wilt Caused by *Fusarium oxysporum* f. sp. *niveum*

……LAN Jianrong, HUANG Jiehao, HUANG Shilian, Li Jinxuan, Tian Kai, LIU Qing, WU Jianxiong, ZHENG Li (94)

Evaluation of the Effect of Dry Heat Treatment on Black Rot in Chinese Cabbage Seeds

…YUE Xinlu , LIANG Gen, LI Zhiqiang, LI Pingdong, LIU Zhen, PENG Liya, YANG Wanqiong, HU Maolin (105)

Research Progress of Insect Odorant Receptors …………… QI Quanmei, LI Qiurong (111)

● Animal Husbandry & Veterinary · Aquaculture

Identification of proteins interacting with PA-X from H7N9 avian influenza virus by GST pull-down combined with mass spectrometry ……………XU Guoshuang, JIANG Tongxiao, GUO Yidi, DUAN Ming, ZHANG Maolin, GUAN Zhenhong (121)

Metabolic Characteristics of Different Carbon Sources by Microorganisms in Sediment of High-density Tilapia Pond

…………… WANG Miao, YI Mengmeng, WANG Ruining, LU Maixin (128)

Effects of Salinity, Temperature and Light on the Growth of *Chaetoceros muelleri* from the Coast of Guangxi

…ZHU Xien, LIN Yuanyou, XIANG Guide, XIONG Jianhua, CHEN Tiancong, CHEN Xiaohan, ZHANG Bin (136)

● Storage & Processing · Quality & Safety

Effect of Different Drying Methods on the Volatile Flavor of Nine-process Dried Tangerine Peel

… CHEN Shupeng, LIU Haocheng, YANG Wanyuan, YU Yuanshan, FU Manqin, BU Zhibin, LIANG Chuxuan (142)

● Agricultural Engineering · Information Technology · Agricultural Economy

Monitoring of Root Growth of *Scindapsus aureus* Based on CI-600

……………LIU Shuoling, HU Yu, WANG Weixing, SUN Daozong, LIN Weijun (151)

Research on Image Segmentation Algorithms on Broiler Depth Atlas

……………LI Ximing, ZHAO Zeyong, WU Jingyi, HUANG Yongding, GAO Yuefang, WEN Jiayong (159)

Research on Image Segmentation Algorithms on Broiler Depth Atlas Strategic Ideas and Directions of Urban Agricultural Economic Development Based on the Comparative Perspective of Domestic Advanced Cities

— A Case Study of Guangzhou ……………TONG Yujing (167)

本刊声明：本刊已许可中国学术期刊全文数据库、万方数据 - 数字化期刊群、中文科技期刊数据库、超星数字图书馆等国内外数据库以及博看网，以数字化方式复制、汇编、发行、信息网络传播本刊全文。作者向本刊提交文章发表的行为即视为同意我刊上述声明。