



目 次

● 作物栽培·遗传育种

水稻种子 TTC 染色及萌发特性研究

..... 陈兵先, 张 琪, 戴彰言, 高家东, 张文虎, 吴柔贤, 宋松泉, 刘 军 (1)

香稻 *Badh2* 基因单倍型及香气成分 2-乙酰-1-吡咯啉代谢通路的研究进展

..... 潘阳阳, 黄道强, 王重荣, 李 宏, 周德贵, 王志东, 陈宜波, 赵 雷, 龚 蓉, 周少川 (9)

烟叶稳定碳同位素组成受控因素分析.....毛佳琦, 郑允允, 张二强, 王 培, 付玉洁, 王 瑶 (17)

施钼对黑果枸杞幼苗生长及荧光参数的影响

..... 聂必林, 田中平, 巫利梅, 如马南木·尼合买提, 吕海英 (24)

● 园艺林学

“鸭头绿”桂味荔枝的辨识、矿质营养诊断及品质评价

..... 徐 晗, 韦增辉, 张嘉雯, 朱永聪, 崔子霄, 白翠华, 姚丽贤 (32)

广东地区中小株型卡特兰优良种质筛选.....丁绵勇, 李 佐, 肖文芳, 陈和明, 吕复兵 (39)

潮汕地区兜兰属植物引种栽培适应性研究

..... 修 敏, 张秀珊, 韦小莲, 洪生标, 郑运欢, 张锴滨, 陈俊生, 陈翠菊, 林映云 (47)

广东省珍贵树种资源分布特点、产业现状与发展建议.....刘小金, 徐大平 (57)

● 土壤肥料·资源环境

稻秆-花生麸发酵制备水溶性有机碳肥工艺研究

..... 陈川雁, 喻国辉, 陈燕红, 宫庆友, 黎永坚, 袁 玲 (66)

粤北低山坡地营造梯田对土壤磷组分及有效性的影响.....张 波, 王 超, 田海山, 李 博, 卢 瑛 (74)

戊唑醇在不同类型香蕉种植土壤中的环境行为研究

.....崔媛媛,周佳,梁水连,王明月,戎瑜,宋佳,吕岱竹(84)

微生物菌剂 W55 修复多菌灵污染土壤研究.....陈锐,门欣,瞿佳,孙晓宇,赵玲侠(92)

广州郊区三类工业企业周边农田土壤重金属污染及生态风险评价

.....梁敏静,熊凡,曾经文,余伟达,张苑铃,周树杰(103)

●植物保护

鲜食玉米抗南方锈病种质资源鉴定筛选.....田耀加,王秋燕,吴蓓,叶伟忠,陈红弟(111)

广东柑橘化肥农药减量增效技术模式.....赖多,邵雪花,肖维强,刘传和,贺涵,匡石滋(118)

●畜牧兽医·水产养殖

高饲养密度对山麻鸭饲养环境和生长性能的影响

.....付梦思,王金辉,吴伟庆,黎颂超,江丹莉,黄运茂,田允波,张续勳(126)

海洋源芽孢杆菌的分离鉴定及其消化酶代谢产物的测定

.....伍楚妍,黄晓冰,刘少君,李洋,谢为天,徐春厚(137)

●贮藏加工·质量安全

马铃薯淀粉添加量对腐竹品质的影响.....刘伟峰,张友胜,黄利华,赵甜甜,焦文娟,张业辉(145)

●农业工程·信息技术·农业经济

人力资本对林业产业发展质量的影响研究.....曹兰芳,司易,孙刚(152)

国内外天然橡胶期现货价格波动关系研究.....高云(161)

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

梅州市农林科学院

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

秦晓霜 广州市农业科学研究院 科技与信息部部长 高级农艺师

林春华 广东农工商职业技术学院 研究员

李新昌 肇庆学院 副院长 研究员

周晓云 广州花卉研究中心 副主任 高级农艺师

黄绍宁 深圳市农业科技促进中心 研究员

谢岳昌 梅州市农林科学院 副院长 高级农艺师

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. 48 No. 7 Jul. 2021

MAIN CONTENTS

Crop Cultivation • Genetic Breeding

Study on TTC Staining and Germination Characteristics of Rice Seeds

··· CHEN Bingxian, ZHANG Qi, DAI Zhangyan, GAO Jiadong, ZHANG Wenhui, WU Rouxian, SONG Songquan, LIU Jun (1)

Research Advances of Haplotype Variation at *Badh2* Gene and 2-Acetyl-1-pyrroline Biosynthetic Pathway in

Aromatic Rice·····PAN Yangyang, HUANG Daoqiang,

WANG Chongrong, LI Hong, ZHOU Degui, WANG Zhidong, CHEN Yibo, ZHAO Lei, GONG Rong, ZHOU Shaochuan (9)

Analysis of Controlled Factors of Stable Carbon Isotope Composition in Tobacco Leaves

·····MAO Jiaqi, ZHENG Yunyun, ZHANG Erqiang, WANG Pei, FU Yujie, WANG Yao (17)

Effects of Molybdenum Application on Growth and Fluorescence Parameters of *Lycium ruthenicum* Seedlings

····· NIE Bilin, TIAN Zhongping, WU Limei, NIGMAT Rumanam, LYU Haiying (24)

Horticulture & Forestry

Identification of “Yatoulv” Guiwei Litchi and Its Mineral Nutrition Diagnosis and Quality Evaluation

·····XU Han, WEI Zenghui, ZHANG Jiawen, ZHU Yongcong, CUI Zixiao, BAI Cuihua, YAO Lixian (32)

Screening of Desirable Medium-small-sized *Cattleya* Germplasm in Guangdong

····· DING Mianying, LI Zuo, XIAO Wenfang, CHEN Heming, LYU Fubing (39)

Study on Cultivation Adaptability of Introduced *Paphiopedilum* in Chaoshan Area ···· XIU Min, ZHANG Xiushan,

WEI Xiaolian, HONG Shengbiao, ZHENG Yunhuan, ZHANG Kaibin, CHEN Junsheng, CHEN Cuiju, LIN Yingyun (47)

Characteristics of Resource Distribution, Industry Status and Development Proposal of Precious Tree Species in

Guangdong····· LIU Xiaojin, XU Daping (57)

Soil & Fertilizer • Resources & Environment

Study on the Process of Water-soluble Organic Carbon Fertilizer Prepared from the Fermentation Products of the
Mixture of Rice Straw and Peanut Bran

····· CHEN Chuanyan, YU Guohui, CHEN Yanhong, GONG Qingyou, LI Yongjian, YUAN Ling (66)

Effect of Terracing in Low Mountain Sloping Land on the Components and Availability of Soil Phosphorus in

Northern Guangdong ······ ZHANG Bo, WANG Chao, TIAN Haishan, LI Bo, LU Ying (74)

Study on Environmental Behavior of Tebuconazole in Different Banana Planting Soils

..... CUI Yuanyuan, ZHOU Jia, LIANG Shuilian, WANG Mingyue, RONG Yu, SONG Jia, LYU Daizhu (84)

Study on Remediation of Carbendazim-contaminated Soil by Microbial Agent W55

.....CHEN Rui, MEN Xin, QU Jia, SUN Xiaoyu, ZHAO Lingxia (92)

Heavy Metal Pollution and Ecological Risk Assessment of Farmland Soil Around Three Types of Industrial Enterprises in Guangzhou Suburb

.....LIANG Minjing, XIONG Fan, ZENG Jingwen, YU Weida, ZHANG Yuanling, ZHOU Shujie (103)

Plant Protection

Identification and Selection of Fresh Corn Germplasm Resources with Resistance to Southern Corn Rust

.....TIAN Yaojia, WANG Qiuyan, WU Bei, YE Weizhong, CHEN Hongdi (111)

Technical Mode of Reduction and Synergism for Citrus Chemical Fertilizers and Pesticides Application in

Guangdong..... LAI Duo, SHAO Xuehua, XIAO Weiqiang, LIU Chuanhe, HE Han, KUANG Shizi (118)

Animal Husbandry & Veterinary · Aquaculture

Effects of High Stocking Density on Rearing Environment and Growth Performance of Shan Partridge Ducks FU Mengsi,

WANG Jinhui, WU Weiqing, LI Songchao, JIANG Danli, HUANG Yunmao, TIAN Yunbo, ZHANG Xumeng (126)

Isolation and Identification of Marine *Bacillus* and Determination of Its Digestive Enzyme Metabolites

..... WU Chuyan, HUANG Xiaobing, LIU Shaojun, LI Yang, XIE Weitian, XU Chunhou (137)

Storage & Processing · Quality & Safety

Effects of Addition of Potato Starch on Quality of Yuba

..... LIU Weifeng, ZHANG Yousheng, HUANG Lihua, ZHAO Tiantian, JIAO Wenjuan, ZHANG Yehui (145)

Agricultural Engineering · Information Technology · Agricultural Economy

Impact of Human Capital on the Development Quality of Forestry IndustryCAO Lanfang, SI Yi, SUN Gang (152)

Study on the Relationship between Futures and Spot Prices of Natural Rubber at Home and Abroad

..... GAO Yun (161)

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。