

目 次

●作物栽培·遗传育种

水稻多胺氧化酶基因 (*OsPAO4*) CRISPR/Cas9 编辑突变体的创制

..... 林春姿, 黄其伟, 侯 艳, 高 上, 韩志开, 韦淡虹, 陈 淳, 王加峰 (1)

云南省优质稻标准样品数据采集方法及应用研究

..... 管俊娇, 李小林, 奎丽梅, 谷安宇, 邓 伟, 涂 建, 管 敏, 张建华 (11)

施氮量对四川茄芯雪茄烟产质量的影响

..... 袁新宇, 樊红柱, 陈 勇, 张 潘, 雷云康, 李富程, 陈利平, 冯文强 (22)

●园艺林学

拉枝对仙进奉荔枝枝梢生长和成花坐果的影响

..... 姜永华, 刘海伦, 严 倩, 陈洁珍, 史发超, 文英杰, 蔡长河, 欧良喜 (30)

海南东寨港秋茄种群结构与数量动态变化特征研究

..... 吕晓波, 钟才荣, 张孟文, 方贊山, 程 成, 陈 旭 (39)

深圳大鹏半岛海岸带森林群落优势种生态位特征

..... 赵 晴, 李文娟, 孙红斌, 李一凡, 甘先华, 黄芳芳, 张卫强 (49)

●土壤肥料·资源环境

加剧酸化对土壤有效态 Cd 和水稻的影响 韦思亦, 唐拴虎, 李玉义, 熊国旋, 张 木, 吴腾飞 (60)

广东淡水河下游流域水质时空变化特征

..... 欧玉婵, 申 健, 陈锐明, 李盟军, 李冬娴, 林挺锐, 王荣辉, 王思源, 艾绍英 (69)

湛江吴川市垦造水田成效评价.....凌宇豪, 缪武龙, 隆少秋, 王 卫, 黄翠婷, 吴家龙, 孔德庸 (78)

筛分浮选法高效提取土壤中聚乙烯微塑料研究张 杰, 赖金龙, 罗学刚 (89)

●植物保护

芽孢杆菌 ZKY01 防控花生果腐病研究魏欣莹, 邢珏珺, 苗 爽, 秦 迪, 邓小银, 李华勇, 喻国辉 (97)

噻霉酮对猕猴桃溃疡病菌的抑菌机理研究

.....何紫梅, 尹茂灵, 张 宇, 罗学刚, 王正前, 李春华 (105)

不同药剂对猕猴桃花腐病的防治效果

.....陈 佳, 石金巧, 冉 飞, 陈听听, 龙友华 (113)

●畜牧兽医·水产养殖

基于全基因组重测序挖掘大白-长白二元母猪产仔数性状候选基因

.....屈子啸, 杨帅朋, 朱向星, 唐冬生 (120)

池养条件下黄唇鱼幼鱼周年生长特性研究

.....莫介化, 刘文瑜, 陆丙乾, 卢伟华, 陆昌胜, 李春枝 (129)

黄喉拟水龟肺炎克雷伯菌外膜蛋白 A 的原核表达与纯化

.....莫超迪, 覃呈欢, 戴龙喜, 韩鹏夫, 纪月鑫, 韦友传 (137)

精氨酸在肉鸡生产中的应用研究进展

.....谭淑君, 蒋守群, 黄运茂, 蒋宗勇 (144)

●农业工程·信息技术·农业经济

小农户经营视角下统分结合双层经营体制创新研究——基于广西的案例调查分析

.....胡 泊, 王田月, 李小红, 梁 威, 孔令孜, 陆宇明 (157)

主管:广东省农业科学院

特邀编委:

主办:广东省农业科学院

张 华 广州市农业科学研究院 院长 研究员

华南农业大学

周晓云 广州花卉研究中心 副主任 高级农艺师

协办:广州市农业科学研究院

张森泉 深圳市农业科技促进中心 副主任 研究员

广州花卉研究中心

深圳市农业科技促进中心

GUANGDONG AGRICULTURAL SCIENCES

(Monthly)

Vol. 50 No. 3 Mar. 2023

MAIN CONTENTS

Crop Cultivation • Genetic Breeding

Construction of Rice Mutants of the Polyamine Oxidase Gene *OsPAO4* Based on CRISPR/Cas9 Editing

...LIN Chunzi, HUANG Qiwei, HOU Yan, GAO Shang, HAN Zhikai, WEI Danhong, CHEN Chun, WANG Jiafeng (1)

Study on the Data Collection Method and Application of Standard Sample Database of Yunnan High-quality Rice

..... GUAN Junjiao, LI Xiaolin, KUI Limei, GU Anyu, DENG Wei, TU Jian, GUAN Min, ZHANG Jianhua (11)

Effect of Nitrogen Application Rate on Quality of Cigar Filler in Sichuan

...YUAN Xinyu, FAN Hongzhu, CHEN Yong, ZHANG Xiao, LEI Yunkang, LI Fucheng, CHEN Liping, FENG Wenqiang (22)

Horticulture & Forestry

Effect of Bending on Shoot Growth, Flowering and Fruiting of Xianjinfeng Litchi

...JIANG Yonghua, LIU Hailun, YAN Qian, CHEN Jiezheng, SHI Fachao, WEN Yingjie, CAI Changhe, OU Liangxi (30)

Dynamic Change Characteristics of Population Structure and Quantity of *Kandelia obovata* in Dongzhai Harnor of Hainan

.....LYU Xiaobo, ZHONG Cairong, ZHANG Mengwen, FANG Zanshan, CHENG Cheng, CHEN Xu (39)

Ecological Niche Characteristics of Dominant Species of Forest Communities in the Coastal Zone of Dapeng Peninsula,

Shenzhen

.....ZHAO Qing, LI Wenjuan, SUN Hongbin, LI Yifan, GAN Xianhua, HUANG Fangfang, ZHANG Weiqiang (49)

Soil & Fertilizer • Resources & Environment

Effects of Increased Acidification on Soil Available Cd and Rice

.....WEI Siyi, TANG Shuanhu, LI Yuyi, XIONG Guoxuan, ZHANG Mu, WU Tengfei (60)

Temporal and Spatial Variation Characteristics of Water Quality in the Lower Reaches of Danshui River in Guangdong

.....OU Yuchan, SHEN Jian,

CHEN Ruiming, LI Mengjun, LI Dongxian LIN Tingrui, WANG Ronghui, WANG Siyuan, AI Shaoying (69)

Evaluation of the Effectiveness of Paddy Fields in Wuchuan, Zhanjiang City

..... LING Yuhao, GOU Wulong, LONG Shaoqiu, WANG Wei, HUANG Cuiting, WU Jialong, KONG Deyong (78)

Efficient Extraction of Polyethylene Microplastics from Soil by Sieve Flotation Method

..... ZHANG Jie, LAI Jinlong, LUO Xuegang (89)

Plant Protection

Study on the Bio-Control Efficiency of Peanut Pod Rot by Bacillus ZKY01

..... WEI Xinying, XING Juejun, MIAO Shuang, QIN Di, DENG Xiaoyin, LI Huayong, YU Guohui (97)

Study on the Antimicrobial Mechanism of Benzothiazolinone Against Kiwifruit Ulcerative Pathogens

..... HE Zimei, YIN Maoling, ZHANG Yu, LUO Xuegang, WANG Zhengjian, LI Chunhua (105)

Control Effects of Different Agents Against Blossom Blight of Kiwifruit

..... CHEN Jia, SHI Jinqiao, RAN Fei, CHEN Tingting, LONG Youhua (113)

Animal Husbandry & Veterinary · Aquaculture

Mining Candidate Genes for Litter Size Traits in Large White – Landrace Crossbred Sows Based on

Whole Genome Resequencing

..... QU Zixiao, YANG Shuaipeng, ZHU Xiangxing, TANG Dongsheng (120)

Study on Annual Growth Characteristics of Pond–culture *Bahaba taipingensis* Juvenile

..... MO Jiehua, LIU Wenyu, LU Binqian, LU Weihua, LU Changsheng, LI Chunzhi (129)

Prokaryotic Expression and Purification of OmpA of *Klebsiella pneumoniae* Isolated from *Mauremys mutica*

..... MO Chaodi, QIN Chenghuan, DAI Longxi, HAN Pengfu, JI Yuexin, WEI Youchuan (137)

Research Progress in the Application of Arginine in Broiler Production

..... TAN Shujun, JIANG Shouqun, HUANG Yunmao, JIANG Zongyong (144)

Agricultural Engineering · Information Technology · Agricultural Economy

Research on Innovation of the Dual Management System Combining Centralization and Decentralization from
the Small Farmers' Perspective –Based on Cases from Guangxi

..... HU Po, WANG Tianyue, LI Xiaohong, LIANG Wei, KONG Lingzi, LU Yuming (157)

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。