

华南农业大学学报

第 43 卷 第 5 期 2022 年 9 月

目 次

特约综述

土壤噬菌体的研究进展及生态功能解析 高瑞川, 胡 敏, 李芳柏, 陈冠虹, 方利平 (1)

研究论文

腐植酸碱性液体肥对香蕉生长的影响及机制
..... 张立丹, 高诚祥, 徐 柠, 王学江, 解永军, 孙少龙, 樊小林 (12)

木薯 SR45 亚家族基因鉴定及表达 李智博, 董世满, 李淑霞, 彭 明, 曾长英 (20)

草地贪夜蛾对不同品种甘蔗及筒轴茅的取食选择及生长适应性
..... 黄 芊, 覃江梅, 黄小凤, 钟 勇, 李 成, 吴碧球, 黄所生, 黄凤宽, 凌 炎, 龙丽萍 (29)

黄龙病菌在 4 个品种柑橘果枝内的时空分布
..... 黄桢辉, 王 娟, 高 洁, 郑 正, 邓晓玲, 许美容 (35)

云南油茶炭疽病菌的鉴定及生防菌筛选
..... 陈健鑫, 魏玉倩, 刘 丽, 张东华, 马焕成, 伍建榕 (43)

2 种桑树病原真菌多重 PCR 检测方法的建立
..... 罗龙辉, 张兴楠, 孟 芳, 黄裕鑫, 刘吉平 (54)

再生稻收割机刚柔耦合杆齿脱粒装置的设计与试验
..... 曾 山, 曾 力, 刘伟健, 魏斯龙, 涂清柳, 陈海波 (61)

双充种型孔滚筒式杂交稻育秧精密播种器设计与试验
..... 陈林涛, 马 旭, 李泽华, 曹秀龙, 齐 龙 (70)

基于稻田除草部件横向偏距视觉感知的对行控制系统设计与试验
..... 陈学深, 方根杜, 熊悦淞, 王宣霖, 武 涛 (83)

基于离散因子的多传感器数据融合和导航线提取方法 孙 科, 张彦斐, 宫金良 (92)

基于密度自适应的 RANSAC 非结构化环境下果园机器人导航 褚福春, 宫金良, 张彦斐 (99)

近红外在线检测装置参数对苹果糖度模型适用性的影响
..... 刘燕德, 胡 宣, 朱明旺, 姚金良, 李 斌, 廖 军, 张剑一, 景寒松 (108)

金纳米颗粒和多壁碳纳米管协同增敏的维生素 C 传感器的研制与应用
..... 栗云鹏, 施玉峰, 巫彬芳, 周 华, 施震渺, 李松浩, 徐海涛, 兰玉彬, 龙拥兵 (115)

基于 PLC 技术的火龙果智能补光调控器设计与应用
..... 卞智逸, 肖德琴, 殷建军, 欧周才, 杨润娜 (124)

征订启事 (60)

封面图片: 由高瑞川提供

期刊基本参数: CN44 * 1110/S * 1959 * b * A4 * 132 * zh * P * ¥15.00 * 1000 * 15 * 2022-09

CONTENTS

Special review

Research progress and ecological function of phages in soil
..... GAO Ruichuan, HU Min, LI Fangbai, CHEN Guanhong, FANG Liping (1)

Research paper

Efficacy of humic acid alkaline liquid fertilizer on banana growth and mechanism
..... ZHANG Lidan, GAO Chengxiang, XU Ning, WANG Xuejiang, XIE Yongjun, SUN Shaolong, FAN Xiaolin (12)

Identification and expression of SR45 subfamily gene in *Manihot esculenta*
..... LI Zhibo, DONG Shiman, LI Shuxia, PENG Ming, ZENG Changying (20)

Feeding preference and growth adaptability of *Spodoptera frugiperda* on different sugarcane varieties and *Rottboellia cochinchinensis*
..... HUANG Qian, QIN Jiangmei, HUANG Xiaofeng, ZHONG Yong, LI Cheng, WU Biqu, HUANG Suosheng, HUANG Fengkuan, LING Yan, LONG Liping (29)

Distribution of ‘*Candidatus Liberibacter asiaticus*’ in the fruit branches of four citrus cultivars
..... HUANG Zhenhui, WANG Juan, GAO Jie, ZHENG Zheng, DENG Xiaoling, XU Meirong (35)

Identification of *Camellia oleifera* anthrax pathogens in Yunnan Province and screening of antagonistic bacteria
..... CHEN Jianxin, WEI Yuqian, LIU Li, ZHANG Donghua, MA Huancheng, WU Jianrong (43)

Establishment of multiplex PCR detection method for two mulberry pathogenic fungi
..... LUO Longhui, ZHANG Xingnan, MENG Fang, HUANG Yuxin, LIU Jiping (54)

Design and experiment of rigid-flexible coupling rod tooth threshing device of harvester for ratooning rice
..... ZENG Shan, ZENG Li, LIU Weijian, WEI Silong, TU Qingliu, CHEN Haibo (61)

Design and experiment of precision seeder with double seed filling type hole roller for hybrid rice seedling raising
..... CHEN Lintao, MA Xu, LI Zehua, CAO Xiulong, QI Long (70)

Design and test of row-follow control system based on visual perception of lateral-offset of weeding component in paddy field
..... CHEN Xueshen, FANG Gendu, XIONG Yuesong, WANG Xuanlin, WU Tao (83)

Multi-sensor data fusion and navigation line extraction method based on discrete factor
..... SUN Ke, ZHANG Yanfei, GONG Jinliang (92)

Orchard robot navigation in unstructured environment based on density adaptive RANSAC
..... CHU Fuchun, GONG Jinliang, ZHANG Yanfei (99)

Influence of near-infrared on-line detection device parameters on the applicability of apple soluble solid content model
..... LIU Yande, HU Xuan, ZHU Mingwang, YAO Jinliang, LI Bin, LIAO Jun, ZHANG Jianyi, JING Hansong (108)

Development and application of vitamin C sensor with synergistic sensitization of gold nanoparticles and multi walled carbon nanotubes
..... LI Yunpeng, SHI Yufeng, WU Binfang, ZHOU Hua, SHI Zhenmiao, LI Songhao, XU Haitao, LAN Yubin, LONG Yongbing (115)

Design and application of intelligent supplemental light controller for pitaya based on PLC technology
..... BIAN Zhiyi, XIAO Deqin, YIN Jianjun, OU Zhoucai, YANG Runna (124)