



中文核心期刊
中国科技核心期刊
中国科学引文数据库(CSCD)来源期刊
RCCSE中国核心学术期刊(A)
中国农业核心期刊

ISSN 2095-1191
CODEN NNXAAB

南方农业学报

Nanfang Nongye Xuebao

第50卷 第4期 2019年4月

Journal of Southern Agriculture

Vol.50 No.4 Apr. 2019

4

2019



广西壮族自治区农业科学院 主办
Sponsored by Guangxi Academy of Agricultural Sciences

科学出版社 出版
Published by Science Press

南方农业学报

Nanfang Nongye Xuebao

第50卷 第4期 2019年4月

目次

作物遗传育种·种质资源·分子生物学

677 铁皮石斛热激转录因子(Hsf)基因家族鉴定及生物信息学分析 韩利红,刘 潮,张维维,李 发,邓发虎,阮子恒

685 宁春4号与河东乌麦杂交F₂代穗部性状分析及其重要QTL发掘 王掌军,刘 妍,刘凤楼,李清峰,张晓岗,刘生祥,贾 彪

695 以广西野生蕉为父本的香蕉远缘杂交 赵 明,武 鹏,龙 芳,何海旺,邹 瑜

703 重组自交系稻米品质性状的相关性分析及QTL定位 秦 钢,夏秀忠,粟学俊,陈彩虹,梁曼玲,阎 勇

生理生化·土壤肥料·农业生态环境

710 乳酸菌复合制剂对盐碱地改良及土壤微生物群落的影响 侯景清,王 旭,陈玉海,刘逸群,商庆祥,张文昇,孟和毕力格

719 内生真菌印度梨形孢对水稻苗期耐盐性的影响 刘雪琳,朱志炎,何 勇,叶开温,田志宏

726 化学调控对洞庭湖区不同群体夏玉米抗倒性及产量的影响 沙 莎,何闻静,曹亚娟,韩 霜,罗水清,易镇邪,陈平平

736 复合垂直潜流人工湿地中硝化和反硝化细菌的筛选及其特性分析 张成龙,李 冰,侯诒然,封功成,陶 冶,朱 健

植物保护·农业气象

745 水稻多基因型种群品种在云南不同稻区的抗病丰产性评价 何 平,杨 阳,陈俊丞,陈 龙,徐文博,刘 斌,郭 炜,王红崧,韩光煜,王云月

755 前体调控对*Bacillus* sp. 108菌株发酵合成抑制甘蔗鞭黑粉菌活性物质产量的影响 杜瑜欣,江 蕾,余 炼,张思原,高程海

761 微生物菌剂和生防木霉菌对甘蓝黑腐病的田间防效及其对甘蓝的促生作用 赵玳琳,卯婷婷,王 廿,赵兴丽,娄 璇,陶 刚

768 扶桑绵粉蚧寄主选择行为及其与寄主叶片生化物质含量的相关性 陈红松,黄立飞,姜建军,周忠实,王伟兰,孟 醒,杨 朗

775 变温条件下铃木氏果蝇的生长发育规律 陈婷婷,赵远鹏,吴道慧,张 帅,陈 斌,张立敏

园艺·园林·林业

781 夜间补光对巨峰葡萄春果叶片营养及果实品质的影响 黄秋凤,谢蜀豫,曹慕明,陈 立,李 敏,覃锦声,李 玮,余 欢,阙名锦,陈国品

788 不同蓝莓栽培品种的农艺性状和品质特性 阳 翠,王 军,陈昌琳,孙 佩,董顺文,刘 巧,梁 琴,廖天伟

795 魔芋种芋的机械损伤敏感性因素分析 李莎莎,廖子杰,孙晓鹏,刘海利,牛 义,张盛林

802 基于分数阶微分的橡胶树割胶期氮素含量定量检测 郑人文,李子波,唐荣年

809 洛阳高山地区牡丹品种的综合性状评价 刘俊娟

加工·贮藏·质量安全

816 落葵种子蛋白提取工艺优化及其抑菌和抗氧化特性分析 张 清,桂 萌,高 亮,周 康,李 军

825 内蒙古西部地区野生葡萄酒相关酵母发酵及产酯能力分析 王凤梅,张邦建,岳泰新

831 长沙臭豆腐上色工艺优化及卤水浸泡前后风味物质比较
..... 唐 辉,陈 霖,曾玉伦,李 跑,贺 静,蒋立文

838 滑皮金桔糖度的近红外光谱无损检测技术 黎新荣

畜牧·兽医·水产·蚕桑

844 鸭疫里默氏杆菌*Tet(X)*基因原核表达及其功能鉴定
..... 黄雪龙,单 敏,陈 烨,刘伶俐,何 晶,王小兰,于圣青,罗廷荣,涂 剑,李 涛

851 恩诺沙星曝露下企鹅珍珠贝肠道微生物多样性及优势菌变化规律
..... 陈明强,李有宁,邓正华,于 刚,马振华,郑 兴,洪嘉炜,魏海军,王 雨

860 努比亚山羊*BMPr-IB*基因多态性与其产羔性状的关联分析
..... 邹 辉,瞿秋红,夏 琴,崔悦悦,江雨航,韦玲静,严雪瑜,蒋钦杨,韦英明

867 粤西海域灯光罩网渔场时空分布与海洋环境的关系 刘祝楠,余 景,陈丕茂,于 杰,王言丰

875 大肠杆菌O157:H7氟苯尼考耐药菌株与敏感菌株的蛋白组学差异
..... 李 军,冯世文,曾 芸,谢宇舟,彭 昊,潘 艳,贺会利,钟舒红,胡 帅

883 β -1,3-葡聚糖对红螯螯虾血细胞的免疫刺激作用
..... 汪 蕾,张秀霞,王冬梅,李军涛,鲁耀鹏,郑佩华,冼健安

891 广西罗非鱼主产区养殖池塘抗生素残留状况分析
..... 王志芳,雷 燕,肖 俊,罗兆飞,钟 欢,郭忠宝,秦 富,罗 佳,罗永巨,谢凌天

农业信息技术·农业经济

898 跨境农产品质量安全影响因素实证分析——以我国云南和越南跨境农产品为例
..... 张义伟,李林红,曾秋梅

905 基于分布式认知理论的农户生态耕种意愿影响因素分析
..... 赖昭豪,陈美球,邝佛缘,傅聪颖,张玉琴

Journal of Southern Agriculture

Vol.50 No.4, 2019

Contents

Crop genetics & breeding · germplasm resources · biotechnology

- 677 Gene family identification and bioinformatics analysis of heat shock transcription factors(Hsf) in *Dendrobium officinale*
..... HAN Li-hong, LIU Chao, ZHANG Wei-wei, LI Fa, DENG Fa-hu, RUAN Zi-heng
- 685 Analysis on panicle traits and important QTL discovery of F₂ hybrids from Ningchun No.4 and Hedong black wheat
..... WANG Zhang-jun, LIU Yan, LIU Feng-lou, LI Qing-feng, ZHANG Xiao-gang, LIU Sheng-xiang, JIA Biao
- 695 Distant hybridization of banana based on Guangxi wild banana as male parent
..... ZHAO Ming, WU Peng, LONG Fang, HE Hai-wang, ZOU Yu
- 703 Correlation analysis and QTL mapping of grain quality- related traits in rice recombinant inbred line
..... QIN Gang, XIA Xiu-zhong, SU Xue-jun, CHEN Cai-hong, LIANG Man-ling, YAN Yong

Physiology & biochemistry · soil & fertilizer · agroecology environmet

- 710 Effects of lactic acid bacteria compound preparation on improvement of saline-alkali soil and soil microbial community
..... HOU Jing-qing, WANG Xu, CHEN Yu-hai, LIU Yi-qun, SHANG Qing-xiang, ZHANG Wen-yi, MENGHE Bi-li-ge
- 719 Effects of endophytic fungus *Piriformospora indica* on salt stress tolerance of rice seedling
..... LIU Xue-lin, ZHU Zhi-yan, HE Yong, YE Kai-wen, TIAN Zhi-hong
- 726 Effects of chemical regulation on yield and lodging resistance of summer maize of different populations in Dongting Lake area
..... SHA Sha, HE Wen-jing, CAO Ya-juan, HAN Shuang, LUO Shui-qing, YI Zhen-xie, CHEN Ping-ping
- 736 Screening and characterization of nitrifying bacteria and denitrifying bacteria in integrated vertical subsurface flow constructed wetlands
..... ZHANG Cheng-long, LI Bing, HOU Yi-ran, FENG Gong-cheng, TAO Ye, ZHU Jian

Plant protection · agrometeorology

- 745 Evaluation of disease resistance and high yield of rice multi-parents advanced generation intercross(MAGIC) varieties at different rice planting areas in Yunnan
..... HE Ping, YANG Yang, CHEN Jun-cheng, CHEN Long, XU Wen-bo, LIU Bin, GUO Wei, WANG Hong-song, HAN Guang-yu, WANG Yun-yue
- 755 Effects of precursor regulation on inhibition of production of active substances in sugarcane *Sporisorium scitamineum* by *Bacillus* sp. 108 fermentation and synthesis
..... DU Yu-xin, JIANG Lei, YU Lian, ZHANG Si-yuan, GAO Cheng-hai
- 761 Field control effects of microbial preparations and biocontrol strains of *Trichoderma* on cabbage black rot in field and its growth-promoting effects on cabbage
..... ZHAO Dai-lin, MAO Ting-ting, WANG Nian, ZHAO Xing-li, LOU Xuan, TAO Gang
- 768 Host selection behavior of *Phenacoccus solenopsis* Tinsley and its correlation with the contents of biochemical substances in host leaves
..... CHEN Hong-song, HUANG Li-fei, JIANG Jian-jun, ZHOU Zhong-shi, WANG Wei-lan, MENG Xing, YANG Lang
- 775 Growth and development regulation of *Drosophila suzukii*(Diptera: Drosophilidae) under fluctuating temperatures
..... CHEN Ting-ting, ZHAO Yuan-peng, WU Dao-hui, ZHANG Shuai, CHEN Bin, ZHANG Li-min

Horticulture · landscape architecture · forestry

- 781 Effects of supplementary illumination at night on leaf nutrition and fruit quality for spring fruit of Kyoho grape
..... HUANG Qiu-feng, XIE Shu-yu, CAO Mu-ming, CHEN Li, LI Min, QIN Jin-sheng, LI Wei, YU Huan, QUE Ming-jin, CHEN Guo-pin
- 788 Agronomic traits and quality properties analysis of different blueberry cultivars
..... YANG Cui, WANG Jun, CHEN Chang-lin, SUN Pei, DONG Shun-wen, LIU Qiao, LIANG Qin, LIAO Tian-wei

795 Sensitive factors of mechanical damage of *Amorphophallus konjac* for seeding LI Sha-sha, LIAO Zi-jie, SUN Xiao-peng, LIU Hai-li, NIU Yi, ZHANG Sheng-lin

802 Quantification detection of nitrogen content in rubber tree during tapping period based on fractional calculus ZHENG Ren-wen, LI Zi-bo, TANG Rong-nian

809 Comprehensive evaluation of peony traits in Luoyang alpine region LIU Jun-juan

Processing · storage · quality safety

816 Optimization of extraction technology for *Basella alba* L. seed protein and its bacteriostasis and antioxidant properties ZHANG Qing, GUI Meng, GAO Liang, ZHOU Kang, LI Jun

825 The ability of fermentation and esters production of wild winemaking yeasts isolated from the western district of Inner Mongolia WANG Feng-mei, ZHANG Bang-jan, YUE Tai-xin

831 Optimization of coloring process for Changsha stinky tofu and comparing of odor components before and after being soaked in brine TANG Hui, CHEN Lin, ZENG Yu-lun, LI Pao, HE Jing, JIANG Li-wen

838 Non-destructive testing technology of sugar content in Huapi kumquat by near infrared spectroscopy LI Xin-rong

Animal science · veterinary science · aquiculture · sericulture

844 The prokaryotic expression and function identification of *Tet(X)* gene in *Riemerella anatipestifer* HUANG Xue-long, SHAN Min, CHEN Ye, LIU Ling-li, HE Jing, WANG Xiao-lan, YU Sheng-qing, LUO Ting-rong, TU Jian, LI Tao

851 Intestinal microbial diversity and dominant bacteria change analysis of *Pteria Penguin* (Röd ing) under enrofloxacin exposure CHEN Ming-qiang, LI You-ning, DENG Zheng-hua, YU Gang, MA Zhen-hua, ZHENG Xing, HONG Jia-wei, WEI Hai-jun, WANG Yu

860 Correlation analysis between Nubian goats *BMPR-IB* gene polymorphism and its lambing traits ZOU Hui, QU Qiu-hong, XIA Qin, CUI Yue-yue, JIANG Yu-hang, WEI Ling-jing, YAN Xue-yu, JIANG Qin-yang, WEI Ying-ming

867 Relationship between the spatio-temporal distribution of light falling-net fishing ground and marine environment in the western Guangdong waters LIU Zhu-nan, YU Jing, CHEN Pi-mao, YU Jie, WANG Yan-feng

875 Differential proteomics analysis in *Escherichia coli* O157:H7 between florfenicol-resistant strain and florfenicol-sensitive strain LI Jun, FENG Shi-wen, ZENG Yun, XIE Yu-zhou, PENG Hao, PAN Yan, HE Hui-li, ZHONG Shu-hong, HU Shuai

883 Immunostimulation of β -1,3-glucan on haemocytes of red claw crayfish(*Cherax quadricianalus*) WANG Lei, ZHANG Xiu-xia, WANG Dong-mei, LI Jun-tao, LU Yao-peng, ZHENG Pei-hua, XIAN Jian-an

891 Residue status of antibiotics in aquaculture ponds of main tilapia aquaculture areas in Guangxi WANG Zhi-fang, LEI Yan, XIAO Jun, LUO Zhao-fei, ZHONG Huan, GUO Zhong-bao, QIN Fu, LUO Jia, LUO Yong-ju, XIE Ling-tian

Agricultural information technology · agriculture economics

898 Empirical analysis on influencing factors of quality safety for cross-border agricultural products—A case study on cross-border agricultural products in Yunnan, China and Vietnam ZHANG Yi-wei, LI Lin-hong, ZENG Qiu-mei

905 Influencing factors of farm households’ willingness to ecological farming based on the distributed cognition theory LAI Zhao-hao, CHEN Mei-qiu, KUANG Fo-yuan, FU Cong-ying, ZHANG Yu-qin