



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51卷 第2期 2020年2月

Journal of Southern Agriculture

Vol.51 No.2 Feb. 2020

2

2020

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51卷 第2期 2020年2月

目次

优秀青年学者论坛

- 245 澳洲坚果 *MYB1* 基因克隆及生物信息学分析
..... 王文林, 韦媛荣, 郑树芳, 谭秋锦, 覃振师, 黄锡云, 汤秀华, 樊松乐, 王立丰, 陈海生
- 255 云南育成小麦品种(系)品质性状遗传多样性分析及综合评价
..... 丁明亮, 林丽萍, 李明菊, 胡欣, 何迟, 廖合发, 赵红, 李绍祥, 刘琨

生理生化·土壤肥料·农业生态环境

- 267 外源氯化钙对高温胁迫下茅苍术生长生理指标及叶片关键酶基因表达的影响
..... 夏蕴, 谷巍, 巢建国, 盛业龙, 王玉卓, 惠西珂, 王凯, 王圆圆
- 275 一株木榄内生真菌菌株的分类鉴定及其对铁皮石斛生长和多糖积累的影响
..... 蓝桃菊, 张艳, 谢玲, 陈艳露, 张雯龙, 黄昌艳
- 283 不同水稻品种在布隆迪的适应性研究 刘开强, 陈雷, 黄玉溢, 高国庆, 陈彩虹, 高利军, 潘英华
- 291 螯合剂处理下钴叶紫苑对土壤重金属的吸收富集效应
..... 王天顺, 陈伟, 杨玉霞, 李晓好, 蒋文艳, 王海军, 廖洁, 莫磊兴
- 299 NaCl胁迫对黑小麦根系DNA损伤的影响
..... 陈瑞, 唐秀梅, 张琪, 杨蓉, 黄蕾蕾, 任晴雯, 朱森林, 刘鹏

植物保护·农业气象

- 305 三七根际土壤中皂苷类自毒物质降解拮抗细菌的分离筛选
..... 王罗涛, 杨冬英, 邓琳梅, 李怡文, 马云云, 韩光煜, 黄惠川, 朱书生, 杨敏
- 313 不同光环境对荔枝蒂蛀虫产卵的影响及田间防效调查
..... 王凤英, 黎柳锋, 韦桥现, 古雅良, 黄川, 廖仁昭, 廖世纯
- 319 橘小实蝇对三华李果实的产卵选择 李媛, 黄爱玲, 黄慧欣, 王小云, 郑霞林, 陆温
- 327 海南西海岸4种真红树植物根际土壤细菌多样性及其生物活性研究
..... 韩敏敏, 李蜜, 高程海, 陈秋琪, 陈春棣, 钟振国, 易湘茜
- 335 基于WOFOST模型的苏南地区春小麦种植适应性分析
..... 江晓东, 张涛, 陈佳鑫, 杨沈斌, 李旭冉, 吴可人, 楚溟然
- 342 不同生境中刺萼龙葵空间点格局分析 陈菁, 马方舟, 张彦静, 王晨彬, 徐海根

园艺·园林·林业

- 350 5份武夷山乌龙茶种质资源的评价筛选 曹士先, 徐杰, 冯卫虎, 蔡小勇, 雷华美, 林应端, 晁倩林
- 357 有机肥替代化肥对土壤环境和番茄品质的影响 刘中良, 高俊杰, 谷端银, 闫伟强

- 364 喀斯特地区不同核桃品种需冷量分析
 秦洪波, 郭伦发, 江新能, 韦婉玲, 苏天明, 谢代祖, 李运飞, 韦林, 王新桂
- 370 防蛾灯照射对大白菜生长及营养品质的影响
 蒋月丽, 吕春芳, 郝超群, 李彤, 苗进, 巩中军, 段云, 武予清

加工·贮藏·质量安全

- 376 嘉宝果果皮提取物体外降糖活性研究 林宝妹, 洪佳敏, 邱珊莲, 郑开斌, 张帅, 张少平, 郑菲艳
- 385 小粒咖啡果皮总黄酮提取工艺优化及其体外抗氧化活性分析
 王彦兵, 王晓媛, 肖兵, 尹红星, 刘小琼, 张洪波, 戴余波, 李锦红
- 394 不同叶幕夹角对不同瓶储期桂葡6号葡萄酒花色苷组成及含量的影响
 余欢, 张劲, 周咏梅, 谢林君, 黄小云, 谢太理, 吴代东, 成果

水产科学

- 404 虾虹彩病毒TaqMan-MGB探针荧光定量PCR检测方法的建立
 韦信贤, 陈孝宇, 贾鹏, 王瑞, 谭红连, 杨慧赞, 童桂香, 黄光华
- 412 不同壳色合浦珠母贝生产性能评估及其雌雄群体间的差异
 魏海军, 邓正华, 陈明强, 邓林琪, 谭春明, 李有宁, 王雨, 王爱民
- 421 罗氏沼虾不同群体世代遗传多样性的SSR分析 董丁健, 戴习林
- 429 凡纳滨对虾微卫星分子标记的开发及不同养殖家系遗传多态性分析
 李强勇, 李旻, 曾地刚, 朱威霖, 彭敏, 杨春玲, 刘青云, 赵永贞, 陈秀荔, 陈晓汉
- 437 广西不同地区克氏原螯虾群体遗传多样性微卫星分析
 黄小芳, 唐章生, 刘俊丹, 张宏燕, 钟一治, 卢智发, 侯树鉴, 王大鹏, 陆专灵
- 445 达氏鲟自噬基因MAP1LC3B克隆及其组织表达分析
 胡伟, 许巧情, 郭慧芝, 李由申, 韩盼盼, 袁汉文, 张书环, 陈敦学
- 453 金边鲤皮肤黑色素合成及转运相关基因表达分析
 韦玲静, 吕业坚, 邹辉, 文衍红, 甘宝江, 张桂姣, 张盛, 严雪瑜, 叶香尘
- 461 牛蛙腐皮病病原菌分离鉴定及药敏试验 戚建华, 刘韵怡, 童文涛, 肖翎, 赵祯, 宋增福

农业信息技术·农业经济

- 470 基于中国—东盟水果贸易的广西优质柑橘产业发展策略探析 谭俊杰, 杨尚东, 周柳强, 谭宏伟
- 477 基于因子分析联合熵值法的重庆市璧山区设施葡萄经济效益分析与评价
 杨士航, 李光林, 马驰, 黄小玉

本期执行编辑: 王晖

期刊基本参数: CN 45-1381/S*1940*m*A4*240*zh*P* ¥ 45.00*1000*30*2020-02

万方数据

Journal of Southern Agriculture

Vol.51 No.2, 2020

Contents

Outstanding Young Scholars Forum

- 245 Cloning and bioinformatics analysis of *MYB1* gene from *Macadamia integrifolia*
..... WANG Wen-lin, WEI Yuan-rong, ZHENG Shu-fang, TAN Qiu-jin, QIN Zhen-shi,
HUANG Xi-yun, TANG Xiu-hua, FAN Song-le, WANG Li-feng, CHEN Hai-sheng

- 255 Genetic diversity analysis and comprehensive evaluation of quality traits of wheat varieties (lines) bred in Yunnan
..... DING Ming-liang, LIN Li-ping, LI Ming-ju, HU Xin, HE Chi, LIAO He-fa, ZHAO Hong, LI Shao-xiang, LIU Kun

Physiology & biochemistry · soil & fertilizer · agroecology environmet

- 267 Effects of exogenous calcium chloride on growth physiological indexes and leaf key enzyme gene expression of *Atractylodes lancea* (Thunb.) DC. under high temperature stress
..... XIA Yun, GU Wei, CHAO Jian-guo, SHENG Ye-long, WANG Yu-zhuo, HUI Xi-ke, WANG Kai, WANG Yuan-yuan

- 275 Identification of an endophytic fungus isolated from *Bruguiera gymnorrhiza* and its effects on the growth and polysaccharide accumulation of *Dendrobium officinale*
..... LAN Tao-ju, ZHANG Yan, XIE Ling, CHEN Yan-lu, ZHANG Wen-long, HUANG Chang-yan

- 283 Adaptability of different rice varieties in Burundi
..... LIU Kai-qiang, CHEN Lei, HUANG Yu-yi, GAO Guo-qing, CHEN Cai-hong, GAO Li-jun, PAN Ying-hua

- 291 Effects of chelators on the uptake and accumulation of heavy metals by *Aster subulatus* Michx.
..... WANG Tian-shun, CHEN Wei, YANG Yu-xia, Li Xiao-yu, JIANG Wen-yan, WANG Hai-jun, LIAO Jie, MO Lei-xing

- 299 Effects of NaCl stress on root DNA damage of black kernel wheat
..... CHEN Rui, TANG Xiu-mei, ZHANG Qi, YANG Rong, HUANG Lei-lei, REN Qing-wen, ZHU Sen-lin, LIU Peng

Plant protection · agrometeorology

- 305 Isolation and screening of antagonistic autotoxin-degrading bacteria in *Panax notoginseng* (Burk.) F. H. Chen rhizosphere soil
..... WANG Luo-tao, YANG Dong-ying, DENG Lin-mei, LI Yi-wen, MA Yun-yun,
HAN Guang-yu, HUANG Hui-chuan, ZHU Shu-sheng, YANG Min

- 313 Effects of different light environments on oviposition of *Conopomorpha sinensis* and its control efficacy in field
..... WANG Feng-ying, LI Liu-feng, WEI Qiao-xian, GU Ya-liang, HUANG Chuan, LIAO Ren-zhao, LIAO Shi-chun

- 319 Oviposition selectivity of *Bactrocera dorsalis* (Hendel) to *Prunus salicina*
..... LI Yuan, HUANG Ai-ling, HUANG Hui-xin, WANG Xiao-yun, ZHENG Xia-lin, LU Wen

- 327 Diversity and bioactivity of bacteria in rhizosphere soil of four true mangrove species on the west coast of Hainan
..... HAN Min-min, LI Mi, GAO Cheng-hai, CHEN Qiu-qi, CHEN Chun-di, ZHONG Zhen-guo, YI Xiang-xi

- 335 Adaptability of spring wheat planting in the south of Jiangsu based on WOFOST model
..... JIANG Xiao-dong, ZHANG Tao, CHEN Jia-xin, YANG Shen-bin, LI Xu-ran, WU Ke-ren, CHU Hao-ran

- 342 Spatial point pattern analysis of *Solanum rostratum* Dunal in different habitats
..... CHEN Jing, MA Fang-zhou, ZHANG Yan-jing, WANG Chen-bin, XU Hai-gen

Horticulture · landscape architecture · forestry

- 350 Screening of five oolong tea germplasm resources in Wuyi Mountain
..... CAO Shi-xian, XU Jie, FENG Wei-hu, CAI Xiao-yong, LEI Hua-mei, LIN Ying-duan, CHAO Qian-lin

- 357 Effects of organic fertilizer substituting chemical fertilizer on soil environment and tomato quality
..... LIU Zhong-liang, GAO Jun-jie, GU Duan-yin, YAN Wei-qiang

- 364 Analysis of chilling requirement of different walnut cultivars in karst areas
..... QIN Hong-bo, GUO Lun-fa, JIANG Xin-neng, WEI Wan-ling, SU Tian-ming,
XIE Dai-zu, LI Yun-fei, WEI Lin, WANG Xin-gui

- 370 Effects of moth expelling lights irradiation on the growth and nutrient quality of Chinese cabbage
..... JIANG Yue-li, LYU Chun-fang, HAO Chao-qun, LI Tong, MIAO Jin, GONG Zhong-jun, DUAN Yun, WU Yu-qing

Processing · storage · quality safety

- 376 *In vitro* studies on the hypoglycemic effect of jaboticaba peel extract
..... LIN Bao-mei, HONG Jia-min, QIU Shan-lian, ZHENG Kai-bin, ZHANG Shuai, ZHANG Shao-ping, ZHENG Fei-yan

- 385 Optimization of extracting total flavonoids from *Coffea arabica* peel and its antioxidant activity *in vitro*
..... WANG Yan-bing, WANG Xiao-yuan, XIAO Bing, YIN Hong-xing,
LIU Xiao-qiong, ZHANG Hong-bo, DAI Yu-bo, LI Jin-hong

- 394 Effects of opening degree of canopy on the profiles and contents of anthocyanins in Guipu No.6 wine after bottle storage periods
..... YU Huan, ZHANG Jin, ZHOU Yong-mei, XIE Lin-jun, HUANG Xiao-yun, XIE Tai-li, WU Dai-dong, CHENG Guo

Fisheries science

- 404 Development of TaqMan-MGB probe fluorescence quantitative PCR for detection of shrimp iridescent virus
..... WEI Xin-xian, CHEN Xiao-yu, JIA Peng, WANG Rui, TAN Hong-lian,
YANG Hui-zan, TONG Gui-xiang, HUANG Guang-hua

- 412 Evaluation of production performance of *Pinctada fucata* with different shell colors and its differences between male and female
..... WEI Hai-jun, DENG Zheng-hua, CHEN Ming-qiang, DENG Lin-qi,
TAN Chun-ming, LI You-ning, WANG Yu, WANG Ai-min

- 421 SSR analysis on genetic diversity in different populations and generations of *Macrobrachium rosenbergii*
..... DONG Ding-jian, DAI Xi-lin

- 429 Development of microsatellite markers of *Litopenaeus vannamei* and genetic polymorphism analysis of different cultured families
..... LI Qiang-yong, LI Min, ZENG Di-gang, ZHU Wei-lin, PENG Min, YANG Chun-ling,
LIU Qing-yun, ZHAO Yong-zhen, CHEN Xiu-li, CHEN Xiao-han

- 437 Genetic diversity microsatellite analysis of *Procambarus clarkii* populations in different regions of Guangxi
..... HUANG Xiao-fang, TANG Zhang-sheng, LIU Jun-dan, ZHANG Hong-yan, ZHONG Yi-zhi,
LU Zhi-fa, HOU Shu-jian, WANG Da-peng, LU Zhuan-ling

- 445 Cloning and expression of autophagy-related gene *MAP1LC3B* in Dabry's sturgeon (*Acipenser dabryanus*)
..... HU Wei, XU Qiao-qing, GUO Hui-zhi, LI You-shen, HAN Pan-pan,
YUAN Han-wen, ZHANG Shu-huan, CHEN Dun-xue

- 453 Skin melanin synthesis of Jinbian carp and expression analysis of transport related genes
..... WEI Ling-jing, LYU Ye-jian, ZOU Hui, WEN Yan-hong, GAN Bao-jiang,
ZHANG Gui-jiao, ZHANG Sheng, YAN Xue-yu, YE Xiang-chen

- 461 Isolation and identification of the pathogen of rot skin disease in *Rana catesbiana* and its drug sensitive test
..... QI Jian-hua, LIU Yun-yi, TONG Wen-tao, XIAO Ling, ZHAO Zhen, SONG Zeng-fu

Agricultural information technology · agriculture economics

- 470 High-quality citrus industry development strategies of Guangxi based on China-ASEAN fruit trade
..... TAN Jun-jie, YANG Shang-dong, ZHOU Liu-qiang, TAN Hong-wei

- 477 Economic benefit analysis and evaluation of facility grape in Bishan District of Chongqing based on factor analysis and entropy method
..... YANG Shi-hang, LI Guang-lin, MA Chi, HUANG Xiao-yu