



全国中文核心期刊
中国科技核心期刊
中国科学引文数据库来源期刊

ISSN 2095-1191
CODEN NNXAAB

南方农业学报

NANFANG NONGYE XUEBAO

第44卷 第1期 2013年1月

JOURNAL OF SOUTHERN AGRICULTURE

Vol.44 No.1 Jan. 2013

1

2013

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44卷 第1期 2013年1月

目次

作物遗传育种·种质资源·分子生物学

- 1 甘蓝黑腐病菌 XC_3374 基因功能的初步探究
梁伟,白先放,徐玉婷,李磊,安世琦,陆光涛
- 6 利用 SSR 分子标记研究苦瓜资源的遗传多样性
李光光,郑岩松,李向阳,张华,郭培国,黄红弟
- 12 SRAP 分子标记分析糯玉米地方品种的遗传多样性
王兵伟,覃永媛,覃嘉明,黄安霞,秦洪波,时成俏
- 17 甘蔗叶绿体基因组研究进展
吴杨,周会
- 23 马铃薯优良品种大西洋、云薯 201 茎尖诱导技术
唐燕梅,陆飞,韦鹏宵,岑秀芬,李全,陆春霞,梁贵秋

耕作栽培·生理生化

- 28 应用近红外(NIRS)技术分析小样品油菜籽粒含油量及硫甙含量
张美华,刘丽,俎峰,王敬乔
- 33 八角叶片营养元素的季节动态变化特征及其相关性
黄开顺,李德满,李开祥,曾祥艳,农必昌
- 39 杧果短截结果母枝玉米素核苷含量的动态变化
彭磊,周玲,王莹,高小俊,龙雯虹,吴兴恩,李婷婷,刘娟
- 43 品种、播期及密度对红麻生长发育及产量性状的影响
黄其椿,李初英,赵洪涛,赵艳红,杨守臻,吴建明
- 49 甘蔗间种大豆最佳模式探讨
韦贵剑,梁景文,陆文娟,罗积维,侯青光

植物保护·农业气象

- 54 植物根际放线菌分离方法初探及根皮苷降解活性分析
黄园勇,周光明,尹国通,巩云霏,张卫卫,刘爱华,袁丽杰
- 59 基于 GIS 技术的广西苦楝春季物候变化规律研究
李莉,李耀先,符合,史彩霞,莫建飞,李永健
- 66 贵阳地区杨梅害虫发生危害调查及防治技术
李德友,廖国会,李崇慧,袁洁,张斌,耿坤
- 71 绿僵菌防治蛴螬的应用研究进展
于永浩,龙秀珍,曾宪儒,韦德卫,曾涛

土壤肥料·节水灌溉·农业生态环境

- 77 不同施肥处理对花生产量及品质的影响(英文)
苏天明,游群,苏利荣,秦芳,刘宇锋,何铁光,何永群,杨彬,王瑾,龙淑珍
- 81 木薯对氮、磷、钾、镁、锌、硼的吸收特性及施肥效应
谭宏伟,周柳强,谢如林,黄美福,谭庆军,阮康乐

- 87 蔗田土壤有机质平衡预测
- 92 钙肥对春甜桔产量和品质的影响
- 96 不同施肥处理对毛葡萄野酿 2 号产量及品质的影响

刘 忠,唐其展,陈桂芬,蒙炎成,
何 红,顾明华
陈桂芬,黄玉溢,熊柳梅,刘 斌,
刘永贤
吴代东,覃柳燕,邹 瑜,牟海飞,
张进忠,韦绍龙,李小泉,林贵美

园艺·园林·林业

- 101 菌根菌与益生菌组合对桉树苗木生长的影响
- 106 牯牛降自然保护区优势树种的生长分析
- 111 盛果期枣树根系空间分布规律研究
- 116 速生桉木材高温热处理的物理力学性能研究
- 121 荔枝酿酒优良单株“皇醉”和“妃醉”初选

莫雅芳,吕成群,张 辉,吴敏坤,
覃小红,邓兆峰
程希平,杨晓军,巩合德,马月伟,
吴利华
郭光华,李 宏,李建贵,杨婵婵,
程 平
高 伟,罗建举,李曲恩
陈洁珍,欧良喜,王丽敏,蔡长河

加工·贮藏·农业工程

- 126 微波辅助提取黄皮叶黄酮类化合物及其种类初步鉴别
- 131 云南勐库大叶种普洱茶茶多酚含量分析
- 135 干热河谷地区猴头出菇环境控制技术研究

张福平,刘晓珍,汤艳姬,陈煥彬,
吴远清
赵 艳,白玉艳,王白娟
韦会平,赵 牧,周建平,王 宇,
李 勇

畜牧·兽医·水产·蚕桑

- 140 北部湾皮氏叫姑鱼的遗传多样性分析
- 145 鸡白痢沙门氏菌冻干菌种保存试验
- 150 臭氧对离体华支睾虫囊蚴生命力的影响
- 155 广西仔猪腹泻病毒病原流行病学调查
- 161 不同品种鸭宰后成熟过程中肉质的变化

谢子强,刘雪媚,郭昱嵩,刘楚吾
龚建森,刘学贤,许 明,窦新红,
刘加圣,徐 步,王 鑫,俞 燕,
戴有理
卫 萍,盛金凤,刘小玲
郭 旋,陈 静,刘 欢,侯韶毅,
龙 凤,李莹莹,曾 娟,兰家暖,
刘 芳,黄伟坚
谢程炜,诸永志,王道营,刘 芳,
徐为民

专论·农业信息技术·农业经济

- 166 基于时空感知能力的农业信息搜索技术研究
- 171 河北临城经济开发区土地集约利用评价
- 176 陕西省农村劳动力就业活动圈选择及其影响因素分析
- 181 乡村旅游的异化与回归分析

王 剑,王 健,高秉博
张清军,尚国珮,梁 旭
薛会会,魏 凤
樊忠涛

JOURNAL OF SOUTHERN AGRICULTURE

Vol. 44 No.1, 2013

CONTENTS

Crop genetics & breeding · germplasm resources · biotechnology

- 1 Preliminary study on the function of *Xanthomone campestris* pv. *campestris* XC_3374 gene
LIANG Wei, BAI Xian-fang, XU Yu-ting, LI Lei, AN Shi-qi, LU Guang-tao
- 6 Genetic diversity analysis in bitter melon germplasm resources based on SSR molecular markers
LI Guang-guang, ZHENG Yan-song, LI Xiang-yang, ZHANG Hua, GUO Pei-guo, HUANG Hong-di
- 12 Genetic diversity analysis of glutinous maize landraces by using SRAP molecular markers
WANG Bing-wei, QIN Yong-ai, QIN Jia-ming, HUANG An-xia, QIN Hong-bo, SHI Cheng-qiao
- 17 Research progress of sugarcane chloroplast genome
WU Yang, ZHOU Hui
- 23 Stem apex induction technology for excellent potato varieties Daxiyang and Yunshu 201
TANG Yan-mei, LU Fei, WEI Peng-xiao, CEN Xiu-fen, LI Quan, LU Chun-xia, LIANG Gui-qiu

Farming · physiology & biochemistry

- 28 Analysis of glucosinolates content in small rapeseed samples by using the Near Infrared Reflectance Spectroscopy (NIRS) technology
ZHANG Mei-hua, LIU Li, ZU Feng, WANG Jing-qiao
- 33 Seasonal dynamic characteristics and nutrient elements correlations in *Illicium verum* leaves
HUANG Kai-shun, LI De-man, LI Kai-xiang, ZENG Xiang-yan, NONG Bi-chang
- 39 Dynamic changes in zeatin nucleoside (ZR) content of mango cutback fruit branch
PENG Lei, ZHOU Ling, WANG Ying, GAO Xiao-jun, LONG Wen-hong, WU Xing-en, LI Ting-ting, LIU Juan
- 43 Effects of different varieties, sowing dates, and density on the growth and yield traits of kenaf
HUANG Qi-chun, LI Chu-ying, ZHAO Hong-tao, ZHAO Yan-hong, YANG Shou-zhen, WU Jiang-ming
- 49 Preliminary report on the optimal model for sugarcane intercropped with soybean
WEI Gui-jian, LIANG Jing-wen, LU Wen-juan, LUO Zhi-wei, HOU Qing-guang

Plant protection · agrometeorology

- 54 Rhizosphere actinomycete isolation methods and phloridzin degradation activity analysis in plants
HUANG Yuan-yong, ZHOU Guang-ming, YI Guo-tong, GONG Yun-fei, ZHANG Wei-wei, LIU Ai-hua, YUAN Li-jie
- 59 Spring phenology variation of Guangxi bead tree (*Melia azedarach*) based on GIS technology
LI Li, LI Yao-xian, FU He, SHI Cai-xia, MO Jian-fei, LI Yong-jian
- 66 Investigation on occurrence damage and control technology of insect pests in red bayberry from Guiyang region
LI De-you, LIAO Guo-hui, LI Chong-hui, YUAN Jie, CHANG Bin, GENG Kun
- 71 Research progress in application of *Metarhizium anisopliae* against white grubs
YU Yong-hao, LONG Xiu-zhen, ZENG Xian-ru, WEI De-wei, ZENG Tao

Soil & fertilizer · water saving irrigation · agroecology environment

- 77 Effect of different fertilization treatments on yield and quality of peanut
SU Tian-ming, YOU Qun, SU Li-rong, QIN Fang, LIU Yu-feng, HE Tie-guang, HE Yong-qun, YANG Bin, WANG Jin, LONG Shu-zhen
- 81 Fertilization effects and nutrient absorption characteristics of nitrogen, phosphorus, potassium, magnesium, zinc, and boron on cassava
TAN Hong-wei, ZHOU Liu-qiang, XIE Ru-lin, HUANG Mei-fu, TAN Qing-jun, YUAN Kang-le
- 87 Forecast of soil organic matter balance in sugarcane field
LIU Zhong, TANG Qi-zhan, CHEN Gui-fen, MENG Yan-cheng, HE Hong, GU Ming-hua

- 92 Effect of calcium fertilizer on the fruit yield and quality of Chuntian tangerine
 96 Influences of different fertilizer treatments on the yield and quality of wild grape variety Yeniang 2 (*Vitis quinquangularis* Rehd.)
- CHEN Gui-fen, HUANG Yu-yi, XIONG Liu-me, LIU Bin, LIU Yong-xian
 WU Dai-dong, QIN Liu-yan, ZOU Yu, MOU Hai-fei, ZHANG Jin-zhong, WEI Shao-long, LI Xiao-quan, LIN Gui-me

Horticulture · landscape architecture · forestry

- 101 Effect of mycorrhizal fungi combined with probiotics bacteria on the growth of eucalyptus seedlings
 106 Growth analysis on dominant tree species in Guniujiang nature reserve
 111 Spatial distribution characteristics of jujube (*Ziziphus jujuba* Mill.) roots during full fruiting period
 116 Physical and mechanical properties of fast-growing eucalypt wood under high temperature heat treatment
 121 Primary selection of new litchi (*Litchi chinensis* Sonn.) wine brewing cultivars "Huangzui" and "Feizui"
- MO Ya-fang, Lü Cheng-qun, ZHANG Hui, WU Min-kun, QIN Xiao-hong, DENG Zhao-feng
 CHENG Xi-ping, YANG Xiao-jun, GONG He-de, MA Yue-wei, WU Li-hua
 GUO Guang-hua, LI Hong, LI Jian-gui, YANG Chan-chan, CHENG Ping
 GAO Wei, LUO Jian-ju, LI Qu-en
 CHEN Jie-zhen, OU Liang-xi, WANG Li-min, CAI Chang-he

Processing · storage · agricultural engineering

- 126 Microwave-assisted extraction and primary identification of flavonoids from *Clausena lansium* leaves
 131 Tea polyphenol analysis of Pu'er tea from Mengku large-leaved species in Yunnan Province
 135 Research on environmental control techniques of *Hericium erinaceus* fruit-body production in hot and arid valley region
- ZHANG Fu-ping, LIU Xiao-zhen, TANG Yan-ji, CHEN Huan-bin, WU Yuan-qing
 ZHAO Yan, BAI Yu-yan, WANG Bai-juan
 WEI Hui-ping, ZHAO Mu, ZHOU Jian-ping, WANG Yu, LI Yong

Animal science · veterinary science · aquiculture · sericulture

- 140 Genetic diversity analysis of Beibu Gulf *Johnius belengerii*
 145 Preservation experiment on frozen-dried *Salmonella Pullorum* strains
 150 Effects of ozone on the viability of *Clonorchis sinensis* metacercariae *in vitro*
 155 Investigation on epidemiology of piglets diarrhea virus disease in Guangxi
 161 Changes in meat quality of different duck varieties during postmortem aging
- XIE Zi-qiang, LIU Xue-me, GUO Yu-song, LIU Chu-wu
 GONG Jian-sen, LIU Xue-xian, XU Ming, DOU Xin-hong, LIU Jia-sheng, XU Bu, WANG Xin, YU Yan, DAI You-li
 WEI Ping, SHENG Jin-feng, LIU Xiao-ling
 GUO Xuan, CHEN Jing, LIU Huan, HOU Shao-yi, LONG Feng, LI Ying-ying, ZENG Juan, LAN Jia-nuan, LIU Fang, HUANG Wei-jian
 XIE Cheng-wei, ZHU Yong-zhi, WANG Dao-ying, LIU Fang, XU Wei-min

Monographs · agricultural information technology · agriculture economics

- 166 Agricultural information search technique research based on space-time perception ability
 171 Intensive land-use evaluation of Lincheng economic development zone in Hebei Province
 176 Analysis on the selection and influencing factors of rural labor employment circle distribution in Shaanxi Province
 181 Study on rural tourism alienation and regression
- WANG Jian, WANG Jian, GAO Bing-bo
 ZHANG Qing-jun, SHANG Guo-fei, LIANG Xu
 XUE Hui-hui, WEI Feng
 FAN Zhong-tao