



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43卷 第5期 2012年5月

JOURNAL OF SOUTHERN AGRICULTURE

Vol.43 No.5 May. 2012

5
2012

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43卷 第5期 2012年5月

目 次

作物遗传育种·种质资源·分子生物学

559 粳、梗型转基因水稻花粉源基因飘流差异研究

何美丹,徐立新,尹昭坤,王旭静,
王志兴,袁普华

566 粳梗野杂交后代田间苗期耐寒性初步分析

闾 勇,秦 钢,梁海福,屈湫明,
唐 梅,黄大辉

570 美国育成甘蔗品种分析

周 会,李杨瑞

578 观赏凤梨远缘杂种离体再生体系研究

龚明霞,张志胜,方 峰,何铁光,
赵 坤,董文斌

耕作栽培·生理生化

583 水稻雄性不育系扦插繁殖与种子繁殖主要性状比较

赵洪涛,黄其椿,周瑞阳,唐洲萍,
王 杰,李初英

587 模拟酸雨对德保苏铁叶片光合作用及根系分泌有机酸的影响

周明昆,李正文,李志刚,李素丽,
李 楠,刘 鹏

592 油菜素内酯对苦瓜抗冷性生理指标的影响

黄玉辉,黄如葵,陈小凤,罗海玲
张 力,宋海星,王小娟,杨 春,

597 不同 CO₂浓度对油菜根系特性及叶片硝酸还原酶活性的影响

陈利军

植物保护·农业气象

601 木霉菌株对香蕉枯萎病病原菌抑菌效果测定

莫贱友,郭堂勋,胡凤云,黄穗萍,
李焜华

605 灰梨孢菌产孢培养基筛选

霍秀娟,李朝生,韩美丽,陆荣生

609 香蕉褐足角胸叶甲发生规律研究

陈彩贤,李 成,陆 温,覃连红,
欧善生,王小欣,黄艳花,刘沿伶

616 甘蔗宿根矮化病 PCR 检测技术优化分析

周 丹,谢晓娜,陈明辉,杨丽涛,
李杨瑞

621 实蝇对寄主选择的研究进展

王玉群,黄树生,曾东强,李子玲,
凌 焱

土壤肥料·节水灌溉·农业生态环境

626 喷施硒、锌肥对不同品种春小麦产量及硒吸收积累特性的影响

张 洋

630 南宁市郊不同类型土壤腐殖质垂直分布特征研究

罗应刚,林 清,王观远,李孙桂,
曾 洋

634 不同磷肥用量对桂中蔗区甘蔗生长性状与产量的影响

刘永贤,曾维宾,熊柳梅,蓝桃莉,
韦正宝

637 甘蔗施用保水剂后效研究初报

许树宁,农定产,周琳庆,何 寒,
游建华,桂意云,黄家雍

园艺·园林·林业

- 641 莢婆(*Sterculia nobilis* Smith)种胚营养及保健性评价(英文)
- 649 尤力克和菲诺 47 柠檬果实生长及品质变化动态分析
- 653 月季夏季开花习性及开花品质研究初探
- 657 南方3种果树叶片蛋白质和硝态氮动态观察
- 662 经营密度及混交对广西柳杉林分生长的影响
- 666 园林植物多样性在高校景观环境建设中的应用
——以广西生态工程职业技术学院为例
- 671 秦皇岛滨海野生观赏盐生植物资源与绿化应用
- 李一伟,陆玉英,陈香玲,任惠,
苏伟强,刘业强,罗瑞鸿
洪林,周娜,文泽富,李隆华,
刘正富,谢永红
闫海霞,武鹏,卜朝阳,邓俭英,
李立志,邓杰玲
朱宇林,覃秀顺
蒋林,廖承锐,陈丽芳,莫小刚,
温天成,杨梅
陈翠玉
彭红丽,赵美微,王颖,曾广娟

加工·贮藏·农业工程

- 675 荞麦壳水不溶性膳食纤维提取工艺的优化
- 679 ClO₂结合1-MCP处理对香蕉采后贮藏品质的影响
- 683 黑木耳多糖提取及其药理活性的研究进展
- 潘建刚,赵秀娟,黄苗苗,贾晋
李昌宝,李丽,孙健,游向荣,
李杰民,何全光,张娥珍
王献友,陈培云,吴广臣,赵志磊

畜牧·兽医·水产·蚕桑

- 688 新疆褐牛GH基因第5外显子Alu I位点多态性与早期生长性状的相关性
- 692 广西巴马小型猪 LAIR-1 基因 cDNA 克隆及序列分析
- 697 瘦素对水牛卵母细胞体外成熟和体外受精胚胎发育的影响
- 701 安氏隐孢子虫 ITS-1 基因 PCR 检测方法的建立
- 705 蝇蛆蛋白营养成分及其饲用价值研究进展
- 牛志刚,史洪才,刘明军,周振勇,
张扬
黄云,张名媛,黎江,蒋钦杨,
兰干球,郭亚芬
陆阳清,罗茜,江明生,叶丹娜,
杨小淦,许慧艳,卢克焕
彭昊,李军,陶立,陈泽祥,
唐林生,魏晓瑞,马春霞,禤雄标,
胡帅,许力干,谢永平,杨威
刘传会,陈志红

专论·农业信息技术·农业经济

- 710 民族地区农户兼业意愿及影响因素分析
——基于重庆市石柱县的调研数据
- 714 物联网在广西农业生产中的应用现状、前景分析及发展对策
- 718 MODIS 数据在河南省耕地雪盖监测中的应用
- 722 基于 GM(1,1)模型的我国水产品产量预测
- 胡帮勇
赵城,梁潘霞,伍华健
刘婷,范磊,王来刚,程永政,
杨春华
岳冬冬,王鲁民

JOURNAL OF SOUTHERN AGRICULTURE

Vol. 43 No.5, 2012

CONTENTS

Crop genetics & breeding·germplasm resources·biotechnology

- 559 Comparison of gene flow from transgenic *Indica* and *Japonica* rice pollen donor HE Mei-dan, XU Li-xin, YIN Zhao-kun, WANG Xu-jing, WANG Zhi-xing, YUAN Qian-hua
566 Cold tolerance analysis on filial generation of *Indica*, *Japonica* and common wild rice at seedling stage in field YAN Yong, QIN Gang, LIANG Hai-fu, QU Qiu-ming, TANG Mei, HUANG Da-hui
570 Analysis on sugarcane varieties bred in the United States of America ZHOU Hui, LI Yang-rui
578 Regeneration system *in vitro* of Bromeliad distant hybrid GONG Ming-xia, ZHANG Zhi-sheng, FANG Feng, HE Tie-guang, ZHAO Kun, DONG Wen-bin

Farming·physiology & biochemistry

- 583 Comparison on major traits of cutting propagation and seed propagation in male sterile lines of rice ZHAO Hong-tao, HUANG Qi-chun, ZHOU Rui-yang, TANG Zhou-ping, WANG Jie, LI Chu-ying
587 Effects of simulated acid rain on photosynthesis of leaves and organic acid secreted by roots of *Cycas debaoensis* Y. C. Zhong et C. J. Chen ZHOU Ming-kun, LI Zheng-wen, LI Zhi-gang, LI Su-li, LI Nan, LIU Peng
592 Effects of brassinolide on chilling-tolerance in bitter gourd seedlings HUANG Yu-hui, HUANG Ru-kui, CHEN Xiao-feng, LUO Hai-ling
597 Effect of atmospheric CO₂ concentrations on roots characteristics and nitrate reductase activity (NRA) of leaves in two rape cultivars ZHANG Li, SONG Hai-xing, WANG Xiao-juan, YANG Chun, CHEN Li-jun

Plant protection·agrometeorology

- 601 Antibacterial effects of *Trichoderma* spp. strains on banana *Fusarium* wilt (*Fusarium Oxysporum* f.sp. *Cubense*) MO Jian-you, GUO Tang-xun, HU Feng-yun, HUANG Sui-ping, LI Kun-hua
605 Screening of spotogenous medium for *Pyricularia grisea* (Cooke) Sacc. HUO Xiu-juan, LI Chao-sheng, HAN Mei-li, LU Rong-sheng
609 Occurrence regularity of new banana pest *Basilepta fulvipes* CHEN Cai-xian, LI Cheng, LU Wen, QIN Lian-hong, OU Shan-sheng, WANG Xiao-xin, HUANG Yan-hua, LIU Yan-ling
616 Optimization of PCR technique for detecting sugarcane ratoon stunting disease ZHOU Dan, XIE Xiao-na, CHEN Ming-hui, YANG Li-tao, LI Yang-rui
621 Research progress in host selection of fruit fly WANG Yu-qun, HUANG Shu-sheng, ZENG Dong-qiang, LI Zi-ling, LING Yan

Soil & fertilizer·water saving irrigation·agroecology environment

- 626 Effects of selenium and zinc fertilizer on yield and selenium absorption and accumulation in spring wheat ZHANG Yang
630 Vertical distribution characteristics of different types of soil humus in Nanning suburb LUO Ying-gang, LIN Qing, WANG Guan-yuan, LI Sun-gui, ZENG Yang
634 Impacts of different dosages of phosphorous fertilizer on agronomic traits and yield in sugarcane in central Guangxi LIU Yong-xian, ZENG Wei-bin, XIONG Liu-me, LAN Tao-ju, WEI Zheng-bao
637 Residue effect of water holding agents on sugarcane XU Shu-ning, NONG Ding-chan, ZHOU Lin-qing, HE Han, YOU Jian-hua, GUI Yi-yun, HUANG Jia-yong

Horticulture·landscape architecture·forestry

- 641 Nutritional and health care valuation of seed embryo *Sterculia nobilis* Smith LI Yi-wei, LU Yu-ying, CHEN Xiang-ling, REN Hui, SU Wei-qiang, LIU Yie-qiang, LUO Rui-hong
649 Dynamic analysis of fruit growth and quality in melon varieties Eureka and Fino 47 HONG Lin, ZHOU Na, WEN Ze-fu, LI Long-hua, LIU Zheng-fu, XIE Yong-hong

- 653 Preliminary research on flowering habit and quality of *Rosa chinensis* in summer YAN Hai-xia, WU Peng, BU Zhao-yang, DENG Jian-ying, LI Li-zhi, DENG Jie-ling
657 Dynamic variation of protein and nitrate nitrogen in leaves of three types of southern fruit trees ZHU Yu-lin, QIN Xiu-shun
662 Effects of density and mixed planting on stand growth of *Cryptomeria fortunei* in Guangxi JIANG Lin, LIAO Cheng-rui, CHEN Li-fang, MO Xiao-gang, WEN Tian-cheng, YANG Mei
666 Application of ornamental plants in university campus landscaping——A case of Guangxi Eco-engineering Vocational Technical College CHEN Cui-yu
671 Greening application of wild ornamental halophytes in coastal area of Qinhuangdao PENG Hong-li, ZHAO Mei-wei, WANG Ying, ZENG Guang-juan

Processing·storage·agricultural engineering

- 675 Optimization of extracting water insoluble dietary fiber from buckwheat shell PAN Jian-gang, ZHAO Xiu-juan, HUANG Miao-miao, JIA Jin
679 Effects of ClO₂ and 1-MCP treatments on post-harvest storage quality of banana LI Chang-bao, LI Li, SUN Jian, YOU Xiang-rong, LI Jie-min, HE Quan-guang, ZHANG E-zhen
683 Advances on polysaccharide extraction from *Auricularia auricula* and its pharmacological activity WANG Xian-you, CHEN Pei-yun, WU Guang-chen, ZHAO Zhi-lei

Animal science·veterinary science·aquaculture·sericulture

- 688 Correlation between GH gene polymorphism of the 5th exon Alu I site and early growth traits in Xinjiang Brown Cattle NIU Zhi-gang, SHI Hong-cai, LIU Ming-jun, ZHOU Zhen-yong, ZHANG Yang
692 Cloning and sequence analysis of cDNA of leukocyte-associated immunoglobulin-like receptor-1 (LAIR-1) gene in Guangxi Bama mini-pig HUANG Yun, ZHANG Ming-yuan, LI Jiang, JIANG Qin-yang, LAN Gan-qi, GUO Ya-fen
697 Effect of leptin on oocyte maturation and embryo development *in vitro* in buffalo (*Bubalus bubalis*) LU Yang-qing, LUO Qian, JIANG Ming-sheng, YE Dan-na, YANG Xiao-gan, XU Hui-yan, LU Ke-huan
701 Establishment of PCR assay for detection of ITS-1 gene in *Cryptosporidium andersoni* PENG Hao, LI Jun, TAO Li, CHEN Ze-xiang, TANG Lin-sheng, WEI Xiao-rui, MA Chun-xia, XUAN Xiong-biao, HU Shuai, XU Li-gan, XIE Yong-ping, YANG Wei
705 Research progress on nutritional component and feeding value of maggot protein LIU Chuan-hui, CHEN Zhi-hong

Monographs·agricultural information technology·agriculture economics

- 710 Farmers' intention and influencing factors on concurrent occupation in ethnic minority areas——Based on the investigation data in Shizhu County of Chongqing HU Bang-yong
714 Status prospect and strategy of Internet of Things application in Guangxi agriculture ZHAO Yu, LIANG Pan-xia, WU Hua-jian
718 Applying MODIS data to monitor snow cover in cultivated land in Henan Province LIU Ting, FAN Lei, WANG Lai-gang, CHENG Yong-zheng, YANG Chun-hua
722 Forecast on domestic output of aquatic products based on GM (1,1) model YUE Dong-dong, WANG Lu-min