

中文核心期刊
中国科技核心期刊
中国农业科技核心期刊
全国优秀科技期刊奖

全国农业学会优秀期刊奖
中国核心期刊(遴选)数据库源期刊
热带农业文摘(荷兰)源期刊
国际热带农业中心CIAT收录期刊

ISSN 1000-2561
CODEN RZXUEX

热带作物学报

REDAI ZUOWU XUEBAO

CHINESE JOURNAL OF TROPICAL CROPS



主办 中国热带作物学会

第34卷 第07期(月刊) Vol.34 No.07(Monthly)

2013.07



万方数据

热带作物学报

2013年7月 第34卷第7期 (月刊 1980年创刊)

目次

作物营养与栽培、遗传育种

- 叶面喷施微肥对橡胶苗叶片营养含量的影响.....张祥会, 华元刚, 罗微, 林钊沐(1209)
- 管理模式对胶园土壤酸性磷酸酶活性动态的影响.....陈永川, 杨春霞, 黎小清, 李春丽, 汤利(1213)
- 不同浓度指数施肥方法下尾巨桉幼苗需肥规律.....张华林, 谢耀坚, 彭彦(1218)
- 东亚特有种五唇兰的开花物候与繁殖特性.....张哲, 宋希强, 朱国鹏, 黄绵佳(1223)
- 竹荪不同生育期土壤微生物动态变化.....常颖萃, 蒋文静, 石妍, 林世强, 叶舟(1228)
- 非饱和灌溉条件下番茄施肥减量技术研究.....杨尚东, 吴俊, 周柳强, 谢如林, 黄金生, 黄美福, 刘永贤, 谭宏伟(1232)
- 化州橘红茎尖微芽嫁接技术研究.....徐雪荣, 黎思娜, 李映志(1237)
- 蛇皮果高空压条繁殖试验.....张帅, 李荣生, 尹光天, 杨锦昌, 邹文涛, 万恒贤, 白磊(1242)
- 热研2号柱花草高效固氮根瘤菌的筛选.....董荣书, 张洁, 黄艳霞, 白昌军, 邹恒福, 王文强, 刘国道(1247)
- 石斛兰亲缘关系的SSR分析.....任羽, 王呈丹, 徐世松, 黄少华, 张银东(1252)

生物技术与组织培养

- 橡胶树*HbRAN1*基因的克隆与表达分析.....黄亚成, 秦云霞, 刘林娅, 胡翠, 唐朝荣(1257)
- 巴西橡胶树中碱性转化酶*HbNINa*基因的克隆和表达模式分析.....肖小虎, 戚继艳, 方永军, 曹冰, 龙翔宇, 唐朝荣(1264)
- 巴西橡胶树*CGPS*和*V-PPase*基因的染色体定位分析.....张新新, 王英, 高和琼, 曾冬冬, 庄南生(1270)
- 实时荧光定量PCR检测木薯海藻糖合成酶基因(*MeTSP1-3*)干旱胁迫下的表达.....张丹, 付莉莉, 彭明, 张家明(1274)
- 耐铝大豆BX10铝胁迫下基因表达差异初步分析.....黄守程, 钱立生, 叶梅荣, 刘爱荣(1278)

*npt II::mgfp5*融合基因的构建及其在柑桔遗传转化中的应用

-刘小丰, 彭爱红, 许兰珍, 邹修平, 朱世平, 赵晓春, 陈善春(1282)

甘蔗蔗糖合酶基因*Susy*半定量表达体系的建立及其应用

-黄文静, 檀小辉, 黄静丽, 何龙飞, 杨丽涛, 李杨瑞, 王爱勤(1288)

红麻细胞质雄性不育系与保持系总蛋白提取及双向电泳体系优化

-廖英明, 徐建堂, 祁建民, 林荔辉, 周瑞阳, 方平平, 陶爱芬(1294)

龙眼胚性愈伤组织 γ -ECS基因的克隆及表达分析

-任敬敬, 赖钟雄(1300)

作物病虫害及防治、环境保护

- 稻曲病对水稻产量的影响及水稻新品种抗病性测定.....杨秀娟, 林廷邦, 阮宏椿, 石妞妞, 杜宜新, 甘林, 陈福如(1309)
- 木薯根腐病棕榈疫病菌的分子检测.....李超萍, 刘先宝, 时涛, 蔡吉苗, 郭涵, 黄贵修(1314)
- 光照对木薯单爪螨发育与繁殖的影响.....卢芙蓉, 符悦冠, 卢辉, 徐雪莲, 陈青(1319)
- 寄主植物对螺旋粉虱发育和繁殖的影响.....韩冬银, 张方平, 邢楚明, 牛黎明, 符悦冠(1323)

海南蔗区甘蔗黑穗病菌生理小种鉴定

-熊国如, 赵更峰, 伍苏然, 沈林波, 冯翠莲, 王俊刚, 蔡文伟, 王文治, 张树珍(1328)

取食番茄、辣椒和人工饲料对斜纹夜蛾生长发育和繁殖力的影响

-严珍, 吕宝乾, 彭正强, 章程辉, 金启安, 温海波(1335)

植物生理生化

低磷胁迫对柱花草酸性磷酸酶活性及其组成的动态影响

-刘攀道, 孙丽莉, 陈志坚, 廖红, 刘国道, 白昌军, 田江(1340)

增香型菠萝果酒活性干酵母制备过程中内源海藻糖积累条件优化

-王玲, 匡钰, 唐德强(1347)

杨梅花色苷分离纯化制备矢车菊素-3-葡萄糖苷的研究

-赖剑峰, 杨荣玲, 林耀盛, 刘学铭(1354)

外源亚精胺对盐胁迫下黄瓜幼苗耐盐性的影响

-李娜, 陈红, 裴孝伯(1359)

富锗树舌胞内多糖抗氧化活性研究

-李正鹏, 吴萍, 王松华, 孙玉军, 马忠友(1365)

诱导剂对番木瓜相关防御酶的影响

-张雪芹, 欧阳海波, 谢志南, 赖瑞云, 钟赞华(1369)

农产品加工、贮藏、保鲜与分析检测

微波超声协同萃取香草兰净油工艺优化及挥发性成分分析

-徐飞, 初众, 卢少芳, 谭乐和, 谷凤林(1374)

高效液相色谱法测定龙眼果实中ATP、ADP、AMP的含量

-杨子琴, 王惠聪, 付欣雨, 李建国, 黄旭明(1381)

费菜多糖脱蛋白方法及工艺研究

-王奇志, 王娜, 龙瑞敏, 戴伟(1384)

草豆蔻不同部位挥发油化学成分GC-MS分析

-晏小霞, 王茂媛, 王祝年, 王建荣, 何际婵(1389)

资源区划与生态学

中国红树林北缘区不同起源秋茄林碳储量比较研究

-严锦钰, 何东进, 李晓景, 王初, 蔡金标, 游巍斌, 苏少川, 张中瑞, 肖石红(1395)

综述

转基因大豆安全性评价的研究进展

-左娇, 郭运玲, 孔华, 徐林, 周霞, 郭安平(1402)

CONTENTS

Crop Nutrition and Culture, Genetic Breeding

- Effects of Trace Element Fertilizer on Nutrient Content of Rubber Tree Boddings by Foliar Application
.....ZHANG Xianghui, HUA Yuangang, LUO Wei, LIN Zhaomu (1209)
- Effect of Management Patterns on Variations of Soil Acid Phosphatase Activity in Rubber Plantations
.....CHEN Yongchuan, YANG Chunxia, LI Xiaoqing, LI Chunli, TANG Li (1213)
- Nutrient Uptake of *Eucalyptus urophylla*×*E.grandis* Seedlings in Response to Different Nitrogen Exponential Regimes
.....ZHANG Hualin, XIE Yaojian, PENG Yan (1218)
- Study on Flowering Phenology and Reproductive Reatures of *Phalaenopsis pulcherrima*(Orchidaceae)
.....ZHANG Zhe, SONG Xiqiang, ZHU Guopeng, HUANG Mianjia (1223)
- Dynamic Change of Soil Microorganisms at Various Growing Stage of *Dictyophora*
.....CHANG Yingcui, JIANG Wenjing, SHI Yan, LIN Shiqiang, YE Zhou (1228)
- Reduction Fertilization of Tomato under Unsaturated Irrigation
.....YANG Shangdong, WU Jun, ZHOU Liuqiang, XIE Rulin, HUANG Jinsheng, HUANG Meifu, LIU Yongxia, TAN Hongwei (1232)
- Shoot-tip Grafting Method of Huazhou Orange XU Xuerong, LI Sina, Li Yingzhi (1237)
- Propagation of *Salacca zalacca* by Air Layering
.....ZHANG Shuai, LI Rongsheng, YIN Guangtian, YANG Jinchang, ZOU Wentao, WAN Hengxian, BAI Lei (1242)
- Screen of Efficient Nitrogen-fixing Rhizobium Strains Matching with *Stylosanthes guianensis* cv. Reyan II
.....DONG Rongshu, ZHANG Jie, HUANG Yanxia, Bai Changjun, HUAN Hengfu, WANG Wenqiang, LIU Guodao (1247)
- Analysis of Genetic Relationship of Ornamental *Dendrobium* by SSR Marker
.....REN Yu, WANG Chengdan, XU Shisong, HUANG Shaohua, ZHANG Yindong (1252)

Biotechnology and Tissue Culture

- Isolation and Characterization of a Gene Coding a Small RAN GTPase in *Hevea brasiliensis*
.....HUANG Yacheng, QIN Yunxia, LIU Linya, HU Cui, TANG Chaorong (1257)
- Cloning and Expression Analysis of an Alkaline/Neutral Invertase Gene in *Hevea brasiliensis*
.....XIAO Xiaohu, QI Jiyan, FANG Yongjun, CAO Bing, LONG Xiangyu, TANG Chaorong (1264)
- Chromosome Location of GGPS and V-PPase Gene from *Hevea brasiliensis*
.....ZHANG Xinxin, WANG Ying, GAO Heqiong, ZENG Dongdong, ZHUANG Nansheng (1270)
- Real-time PCR Analysis of *MeTPS1-3* Gene Under Drought Stress in Cassava
.....ZHANG Dan, FU Lili, PENG Ming, ZHANG Jiaming (1274)
- Preliminary Analysis of Differentially Expressed Genes of Al-tolerant Soybean Genotype BX10 under Aluminum Treatment
.....HUANG Shoucheng, QIAN Lisheng, YE Meirong, LIU Airong (1278)
- Construction and Application of a Bifunctional Gene *npt II::mgfp5* for Citrus Genetic Transformation
.....LIU Xiaofeng, PENG Aihong, XU Lanzhen, ZOU Xiuping, ZHU Shiping, ZHAO Xiaochun, CHEN Shanchun (1282)
- Establishment of Semi-quantitative RT-PCR System for *Susy* Gene in Sugarcane and Its Application
.....HUANG Wenjing, TAN Xiaohui, HUANG Jingli, HE Longfei, YANG Litao, LI Yangrui, WANG Aiqin (1288)
- The Total Protein Extraction and Two-dimensional Electrophoresis System Optimization of the Kenaf Cytoplasmic Male Sterility and Maintaining
.....LIAO Yingming, XU Jiantang, QI Jianmin, LIN Lihui, ZHOU Ruiyang, FANG Pingping, TAO Aifen (1294)
- Cloning and Bioinformatics Analysis of γ -*ECS* Gene from Embryogenic Callus in *Dimocarpus longan* Lour.
.....REN Jingjing, LAI Zhongxiong (1300)

CHINESE JOURNAL OF TROPICAL CROPS

Jul. 2013 Vol.34 No.07 (Monthly, Founded in 1980)

Crop Pests, Diseases and Environmental Protection

Effect of False Smut on Yield of Rice and Disease Resistance Detection of New Rice Varieties

.....YANG Xiujian, LIN Tingbang, RUAN Hongchun, SHI Niuniu, DU Yixin, GAN Lin, CHEN Furu (1309)

Molecular Detection of *Phytophthora palmivora* from the Cassava Root Rot

.....LI Chaoping, LIU Xianbao, SHI Tao, CAI Jimiao, GUO Han, HUANG Guixiu (1314)

Effect of Photoperiod on the Development and the Reproduction of Cassava Green Mite *Mononychellus mcgregori*

.....LU Fuping, FU Yueguan, LU Hui, XU Xuelian, CHEN Qing, TIAN Weimin (1319)

Effect of Host Plants on Development and Reproduction of the Spiraling Whitefly, *Aleurodicus dispersus* Russell (Hemiptera: Aleyrodidae)

.....HAN Dongyin, ZHANG Fangping, XING Chuming, NIU Liming, FU Yueguan (1323)

Identification of Physiological Races of *Sporisorium scitaminea* Syd. in Hainan Province

.....XIONG Guoru, ZHAO Gengfeng, WU Suran, SHEN Linbo, FENG Cuilian, WANG Jungang, CAI Wenwei, WANG Wenzhi, ZHANG Shuzhen (1328)

Effect of Tomato, Pepper and Artificial Diet on the Growth, Development and Fecundity of *Spodoptera litura* Fabricius

.....YAN Zhen, LV Baoqian, PENG Zhengqiang, ZHANG Chenghui, JIN Qi'an, WEN Haibo (1335)

Phytophysiology and Biochemistry

Dynamic Effects of Low Phosphorus Stress on Acid Phosphatase Activity and Isoforms in *Stylosanthes*

.....LIU Pandao, SUN Lili, CHEN Zhijian, LIAO Hong, LIU Guodao, BAI Changjun, TIAN Jiang (1340)

Optimizing Endogenous Trehalose Accumulation During the Preparation of Aroma-producing Active Dried Yeast for Pineapple Wine

.....WANG Ling, KUANG Yu, TANG Deqiang (1347)

Purification of Cyanidin-3-glucosid from Waxberry Anthocyanins.....LAI Jianfeng, YANG Rongling, LIN Yaosheng, LIU Xueming (1354)

Effects of Extraneous Spermidine on the Salt Tolerance in Cucumber Seedlings Under Salt Stress.....LI Na, CHEN Hong, PEI Xiaobo (1359)

Antioxidative Activity of Germanium-rich Intracellular Polysaccharides from *Ganoderma applanatum*

.....LI Zhengpeng, WU Ping, WANG Songhua, SUN Yujun, MA Zhongyou (1365)

Effects of Exutory on Papaya Relative Defense Enzymatic Activities

.....ZHANG Xueqin, OUYANG Haibo, XIE Zhinan, LAI Ruiyun, ZHONG Zanhua (1369)

Agricultural Product Processing, Storage, Analysis and Detection

Optimization of Microwave Ultrasonic Collaborative Extraction Vanilla Net Oil Process and Volatile Component Analysis

.....XU Fei, CHU Zhong, LU Shaofang, TAN Lehe, GU Fenglin (1374)

Determination of the Content of ATP, ADP, AMP in Longan Fruit Using High Performance Liquid Chromatography

.....YANG Ziqin, WANG Huicong, FU Xinyu, LI Jianguo, HUANG Xuming (1381)

Methods and Technology of Deproteinization Process of Polysaccharides from *Sedum aizoon* L.

.....WANG Qizhi, WANG Na, LONG Ruimin, DAI Wei (1384)

Chemical Constituents of the Volatile Oils from Different Parts of *Alpinia hainanensis* K. Schumann

.....YAN Xiaoxia, WANG Maoyuan, WANG Zhunian, WANG Jianrong, HE Jichan (1389)

Resources Division and Ecology

Comparative Studies on the Carbon Storage Between the *Kandelia candel* Natural Forests and Plantations in North Mangrove Forests of China

.....YAN Jinyu, HE Dongjin, LI Xiaojing, WANG Ren, CAI Jinbiao, YOU Weibin, SU Shaochuan, ZHANG Zhongrui, XIAO Shihong (1395)

Review

Progress on Safety Evaluation of Transgenic Soybean

.....ZUO Jiao, GUO Yunling, KONG Hua, XU Lin, ZHUO Xia, GUO Anping (1402)