

《中文核心期刊要目总览》核心期刊
中国科学引文数据库 (CSCD) 核心期刊
中国科技论文统计源核心期刊
《国家科技学术期刊开放平台》收录期刊

ISSN 1000-2561
CN 46-1019/S

热带作物学报

CHINESE JOURNAL OF TROPICAL CROPS



2021.4

第42卷 第4期 Vol. 42 No. 4

主办

中国热带作物学会
中国热带农业科学院



科学出版社
Science Press

万方数据

目 次

组学与生物技术

龙眼体胚发生早期 *4CL* 基因家族鉴定与功能分析

.....洪平静, 徐小萍, 王静宇, 陈晓慧, 申 序, 林玉玲, 赖钟雄 (909)

基于 SRAP 分子标记的特早熟荔枝种质资源遗传多样性分析

.....胡福初, 吴小波, 陈 哲, 吴凤芝, 周文静, 冯学杰, 范鸿雁, 周瑞云, 王祥和 (920)

逆境信号下木薯 *MeMYC2* 转录因子表达及功能分析.....于晓玲, 郭 鑫, 李淑霞, 阮孟斌, 彭 明 (927)

木薯 MYB 转录因子 *MeMYB2* 特性及功能分析.....杨静园, 阮孟斌, 郭 鑫, 彭 明 (936)

基于 SRAP 的辣木种质资源遗传多样性和亲缘关系分析.....林宗铿, 张天翔, 杨俊杰 (945)

黑喉石斛 *DoFT1* 基因在花发育过程中的表达模式分析及功能验证.....杜致辉, 杨 澜, 姚新转, 陈之林 (951)

种质资源与遗传育种

基于配合力分析筛选甘蔗杂交亲本组合.....谭 芳, 杨荣仲, 经 艳, 雷敬超, 王伦旺, 周 会 (958)

利用流式细胞术对 29 份火龙果种质染色体的倍性鉴定

.....黄黎芳, 武志江, 梁桂东, 陆贵锋, 黄凤珠, 刘朝安, 邓海燕 (966)

浙江省兰科植物新记录.....周 庄, 鲍洪华, 吴棣飞, 任文冠, 徐灵君, 丁炳扬 (971)

珠芽魔芋组培快繁技术.....魏 博, 潘登浪, 刘子凡, 曾宪海, 李炜芳 (975)

作物栽培与生理生化

2008—2017 年甘蔗品种‘新台糖 22 号’在广西蔗区的消长分析

.....梁 强, 刘晓燕, 李毅杰, 林 丽, 王泽平, 李 翔, 宋修鹏, 周 会, 林善海, 李杨瑞 (982)

季节性干旱下农艺节水措施对甘蔗生长和产量的影响

.....安东升, 严程明, 陈 炫, 徐 磊, 刘 洋, 苏俊波, 孔 冉, 窦美安 (991)

胡椒不同时期体细胞胚中内源激素变化.....吉训志, 胡丽松, 秦晓威, 杨艺秋, 范 睿, 郝朝运 (1000)

不同施氮水平对金菠萝苗期生长及养分吸收的影响

.....韩忠钰, 金 鑫, 邓 燕, 赵 艳, 吕烈武, 黄顺坚, 李长江 (1008)

红心火龙果品质及产量对稻壳有机肥施用量的响应

.....李 坤, 岳学文, 史亮涛, 李小英, 李建查, 潘志贤, 陈丽美 (1014)

红心火龙果生物量预测数学模型研究.....张 瀚, 李洪立, 李 晗, 陈 奇, 孙会举, 杨福孙 (1021)

不同海拔对‘琯溪蜜柚’春梢花芽分化的影响

.....胡绍彬, 王锦涛, 赵秋月, 代亚兰, 刘若南, 刘林婷, 朱东煌, 李 延, 王 平 (1029)

番石榴果实生长发育和营养品质变化规律分析.....张朝坤, 黄婉莉, 陈洪彬, 康仕成 (1035)

甘蔗渣对灵芝菌丝生长的影响及菌种保藏评价.....张柳莲, 黄清铨, 王丽宁, 王庆福, 梁 磊, 林明威 (1041)

毛竹林带状采伐后垦复施肥对新竹生长及土壤养分含量的影响

.....张洋洋, 凡莉莉, 黄 霞, 熊婷婷, 荣俊冬, 李士坤, 郑郁善 (1047)

烟草新型土壤调理剂对植烟沙泥田土壤的改良及应用效果

.....卢钰升, 顾文杰, 李集勤, 杨少海, 李淑玲, 孙丽丽, 黎婉玲, 黄振瑞, 刘意旋 (1055)

植物保护与生物安全

芒果细菌性角斑病菌内切葡聚糖酶基因的克隆与表达分析姚全胜, 杨 倩, 柳 凤, 詹儒林 (1061)

椰心叶甲肠道微生物的分离鉴定及功能分析章雨露, 吕宝乾, 杨 帆, 涂 艳, 蒋方一丁, 齐可欣, 李紫城 (1066)

施用硅肥对甘蔗抗条螟性及其产量的影响林兆里, 张 华, 罗 俊, 高世武, 姚俊丽, 许莉萍 (1071)

百香果炭疽病菌生物学特性及室内药剂筛选冉 飞, 陈 佳, 莫飞旭, 樊 荣, 尹显慧, 龙友华, 吴小毛 (1080)

钝叶草叶斑病病原鉴定郑金龙, 刘文波, 贺春萍, 易克贤, 刁金根, 梁艳琼, Gbokio Jr Thomas, 吴 杨 (1086)

球孢白僵菌 Bbchitinase 1 和 Bbchitinase 2 在侵染宿主过程中的不同作用

.....汪永松, 耿 涛, 卢芙萍, 武华周, 娄德钊, 涂娜娜, 王树昌 (1092)

豇豆贮藏期软腐病病原菌鉴定及其生物学特性研究

.....洪小雨, 李 敏, 弓德强, 高兆银, 杨 衍, 王 义, 胡美姣 (1099)

采后处理与质量安全

椰浆中椰子蛋白的提取、分离和鉴定林 源, 吴毓炜, 王 焱, 吉哲蓉, 乐学义 (1106)

水稻种子蛋白质的组成和积累形态对稻米品质的影响刘慧芳, 吴孚桂, 聂佳俊, 韦云飞, 马启林 (1113)

乙醇水剂法提取武夷水仙茶叶籽油及其品质分析于立志, 刘奇琳, 张婷婷, 傅春金 (1120)

猴耳环多酚的大孔树脂纯化工艺及其组分分析李志超, 傅咏梅, 张 蜀, 陈湘澜, 谢振辉, 邓 红 (1127)

小苍兰花瓣花黄色素组成和含量分析朱佳意, 唐东芹, 李 欣 (1136)

农业生态与环境保护

西双版纳橡胶林与其他类型林分生物量及碳储量的比较

.....徐 睿, 谢 江, 岩香甩, 张勇波, 陈国云, 黄 菁, 周会平 (1145)

基于气候适宜度的橡胶树产胶年景预测模型刘少军, 佟金鹤, 陈小敏, 李伟光 (1154)

海南岛东南沿海地区不同森林类型林地凋落物现存量 and 养分特征

.....陈毅青, 陈宗铸, 陈小花, 雷金睿, 李苑菱, 吴庭天 (1159)

绿肥对咖啡园杂草多样性及功能群的影响

.....付兴飞, 胡发广, 李贵平, 何红艳, 黄家雄, 罗心平, 李亚男, 张晓芳, 吕玉兰 (1166)

云南保山喀斯特石漠化地区农田杂草种群组成与多样性特征

.....刘 倩, 严 炜, 张林辉, 沈正松, 熊贤坤, 李忠贤, 周迎春, 段春芳, 姜太玲,
李月仙, 李亚男, 邵 杰, 杜 丽, 刘光华 (1175)

云南景迈山不同生境茶园根际土壤微生物群落多样性初步研究

.....杨瑞娟, 王桥美, 彭文书, 龚婉莹, 赵苗苗, 严 亮 (1182)

DOMs 耦合生物质炭对土霉素的吸附行为研究

.....苏 帆, 吴挺勋, 邓 惠, 赵媛媛, 林 天, 俞花美, 吴晓晨, 葛成军 (1190)

CHINESE JOURNAL OF TROPICAL CROPS

Apr. 2021 Vol. 42 No. 4 (Monthly, established in 1980)

CONTENTS

Omics & Biotechnology

Identification and Functional Analysis of *4CL* Gene Family During Early Somatic Embryogenesis in *Dimocarpus longan* Lour.

..... HONG Pingjing, XU Xiaoping, WANG Jingyu, CHEN Xiaohui, SHEN Xu, LIN Yuling, LAI Zhongxiong (909)

Genetic Diversity Analysis of Very Early Maturing Litchi Germplasm Resources Based on SRAP Molecular Markers

.....HU Fuchu, WU Xiaobo, CHEN Zhe, WU Fengzhi, ZHOU Wenjing, FENG Xuejie, FAN Hongyan,
ZHOU Ruiyun, WANG Xianghe (920)

Expression Analysis of *MeMYC2* Transcription Factor in Cassava under Stress Signal

..... YU Xiaoling, GUO Xin, LI Shuxia, RUAN Mengbin, PENG Ming (927)

Characterization and Function Analysis of Cassava MYB Transcription Factor *MeMYB2*

..... YANG Jingyuan, RUAN Mengbin, GUO Xin, PENG Ming (936)

Assessment of Genetic Diversity and Relationship among 18 *Moringa* Species Based on SRAP Marker

.....LIN Zongkeng, ZHANG Tianxiang, YANG Junjie (945)

Expression Pattern Analysis of *Dendrobium ochreatum DoFT1* Gene During Flower Development and Its Functional Verification

.....DU Zhihui, YANG Lan, YAO Xinzhuang, CHEN Zhilin (951)

Germplasm Resources, Genetics & Breeding

Screening of Sugarcane Parents and Crosses by Combining Ability Analysis

..... TAN Fang, YANG Rongzhong, JING Yan, LEI Jingchao, WANG Lunwang, ZHOU Hui (958)

Ploidy Determination of 29 Pitaya Germplasms Using Flow Cytometry

.....HUANG Lifang, WU Zhijiang, LIANG Guidong, LU Guifeng, HUANG Fengzhu, LIU Chaoan, DENG Haiyan (966)

New Recorded Species of Orchidaceae from Zhejiang Province

.....ZHOU Zhuang, BAO Honghua, WU Difei, REN Wenguan, XU Lingjun, DING Bingyang (971)

Tissue Culture and Plant Regeneration of *Amorphophallus bulbifer*

.....WEI Bo, PAN Denglang, LIU Zifan, ZENG Xianhai, LI Weifang (975)

Plant Cultivation, Physiology & Biochemistry

Growth and Decline of Sugarcane Cultivar ‘ROC22’ in Guangxi Sugarcane Area from 2008 to 2017

.....LIANG Qiang, LIU Xiaoyan, LI Yijie, LIN Li, WANG Zeping, LI Xiang, SONG Xiupeng,
ZHOU Hui, LIN Shanhai, LI Yangrui (982)

Effect of Agronomic Water Saving Measures on Growth and Yield of Sugarcane under Seasonal Drought

.....AN Dongsheng, YAN Chengming, CHEN Xuan, XU Lei, LIU Yang, SU Junbo, KONG Ran, DOU Meian (991)

Changes of Endogenous Hormone During Different Stages of Somatic Embryogenesis of *Piper nigrum*

.....JI Xunzhi, HU Lisong, QIN Xiaowei, YANG Yiqiu, FAN Rui, HAO Chaoyun (1000)

Effects of Different Levels of Nitrogen Application on the Growth and Nutrient Uptake of Pineapple Variety ‘MD-2’ at Early Growth Stage

..... HAN Zhongyu, JIN Xin, DENG Yan, ZHAO Yan, LYU Liewu, HUANG Shunjian, LI Changjiang (1008)

Response of Quality and Yield in Red Pitaya to Change in Amounts of Chaff Organic Fertilizer

.....LI Kun, YUE Xuewen, SHI Liangtao, LI Xiaoying, LI Jiancha, PAN Zhixian, CHEN Limei (1014)

Mathematical Model of Biomass Prediction of *Hylocereus undatus* Britt.

.....ZHANG Han, LI Hongli, LI Han, CHEN Qi, SUN Huiju, YANG Fusun (1021)

Influence of Different Altitude on Flower Bud Differentiation of ‘Guanximiyu’ Pummelo (*Citrus grandis*) in Different Altitudes

..... HU Shaobin, WANG Jintao, ZHAO Qiuyue, DAI Yalan, LIU Ruonan, LIU Linting,
ZHU Donghuang, LI Yan, WANG Ping (1029)

Analysis on the Law of *Psidium guajava* L. Fruit Growth and Nutritional Quality

.....ZHANG Chaokun, HUANG Wanli, CHEN Hongbin, KANG Shicheng (1035)

Effect of Bagasse on Growth of *Ganoderma* Mycelium and Evaluation of Strain Preservation

..... ZHANG Liulian, HUANG Qinghua, WANG Lining, WANG Qingfu, LIANG Lei, LIN Mingwei (1041)

Effects of Eclamation and Fertilization on Growth and Soil Nutrient Content after Strip Clear Cutting in *Phyllostachys Edulis*

Forests
.....ZHANG Yangyang, FAN Lili, HUANG Xia, XIONG Tingting, RONG Jundong, LI Shikun, ZHENG Yushan (1047)

CHINESE JOURNAL OF TROPICAL CROPS

Apr. 2021 Vol. 42 No. 4 (Monthly, established in 1980)

Soil Improvement and Application Effect of a Novel Tobacco Soil Conditioner on Sandy Soil

..... LU Yusheng, GU Wenjie, LI Jiqin, YANG Shaohai, LI Shuling, SUN Lili, LI Wanling, HUANG Zhenrui, LIU Yixuan (1055)

Plant Protection & Bio-safety

Cloning and Expression Analysis of Endo-1,4- β -D-glucanase Gene of *Xanthomonas citri* pv. *mangiferaeindicae*

..... YAO Quansheng, YANG Qian, LIU Feng, ZHAN Rulin (1061)

Isolation, Identification and Functional Analysis of Intestinal Microorganisms of *Brontispa longissimi* Gestro

..... ZHANG Yulu, LYU Baoqian, YANG Fan, TU Yan, JIANG Fangyiding, QI Kexin, LI Zicheng (1066)

Effect of Silicon Fertilizer on Sugarcane Production and Its Resistance to Stalk Borer

..... LIN Zhaoli, ZHANG Hua, LUO Jun, GAO Shiwu, YAO Junli, XU Liping (1071)

Biological Characteristics of the Pathogen and Fungicides Screening in Laboratory for Anthracnose of *Passiflora edulis* Sims

..... RAN Fei, CHEN Jia, MO Feixu, FAN Rong, YIN Xianhui, LONG Youhua, WU Xiaomao (1080)

Identification of the Pathogen of *Stenotaphrum helferi* Leaf Spot

..... ZHENG Jinlong, LIU Wenbo, HE Chunping, YI Kexian, XI Jingen, LIANG Yanqiong, Gbokie Jr Thomas, WU Yang (1086)

Different Roles of *Beauveria bassiana* Bbchitinase 1 and Bbchitinase 2 in Host Infection

..... WANG Yongsong, GENG Tao, LU Fuping, WU Huazhou, LOU Dezhaoh, TU Nana, WANG Shuchang (1092)

Identification and Biological Characteristics of the Pathogen Causing Postharvest Decay of Cowpea

..... HONG Xiaoyu, LI Min, GONG Deqiang, GAO Zhaoyin, YANG Yan, WANG Yi, HU Meijiao (1099)

Post-harvest Treatment & Quality Safety

Extraction, Isolation and Identification of Coconut Protein from Coconut Milk

..... LIN Yuan, WU Yuwei, WANG Yan, JI Zherong, LE Xueyi (1106)

Effects of Rice Seed Protein Composition and Accumulation Morphology on Rice Quality

..... LIU Hui Fang, WU Fugui, NIE Jiajun, WEI Yunfei, MA Qilin (1113)

Extraction of Camellia Oil from Wuyi Shuixian Tea by Ethanol and Quality Analysis

..... YU Lizhi, LIU Qilin, ZHANG Tingting, FU Chunjin (1120)

Macroporous Resin Purification Process and Component Analysis of *Pithecellobium clypearia* Polyphenols

..... LI Zhichao, FU Yongmei, ZHANG Shu, CHEN Xianglan, XIE Zhenhui, DENG Hong (1127)

Analysis of Composition and Content of Anthoxanthins in Petals of *Freesia hybrida*

..... ZHU Jiayi, TANG Dongqin, LI Xin (1136)

Agricultural Ecology & Environmental Protection

Comparison on Biomass and Carbon Storage of Rubber Plantation with Other Types of Forest in Xishuangbanna

..... XU Rui, XIE Jiang, YAN Xiangshuai, ZHANG Yongbo, CHEN Guoyun, HUANG Jing, ZHOU Huiping (1145)

Prediction Model of Annual Rubber Potential Productivity Based on Climatic Suitability

..... LIU Shaojun, TONG Jinhe, CHEN Xiaomin, LI Weiguang (1154)

Stock and Nutrient Characteristics of Litter at Different Forest Types in the Southeast Coast of Hainan Island

..... CHEN Yiqing, CHEN Zongzhu, CHEN Xiaohua, LEI Jinrui, LI Yuanling, WU Tingtian (1159)

Effects of Green Manure on Weed Diversity and Functional Groups in Coffee Orchards

..... FU Xingfei, HU Faguang, LI Guiping, HE Hongyan, HUANG Jiaxiong, LUO Xinping,
LI Ya'nan, ZHANG Xiaofang, LYU Yulan (1166)

Population Composition and Diversity Features of Weed in Farmland of Karst Rocky Desertification Region of Baoshan,
Yunnan, China

..... LIU Qian, YAN Wei, ZHANG Linhui, SHEN Zhengsong, XIONG Xiankun, LI Zhongxian, ZHOU Yingchun,
DUAN Chunfang, JIANG Tailing, LI Yuexian, LI Ya'nan, TAI Jie, DU Li, LIU Guanghua (1175)

A Preliminary Study on the Distribution Diversity of Rhizosphere Soil Microbial Community in Tea Plantations with Different
Habitats of Jingmai Mountain, Yunnan, China

..... YANG Ruijuan, WANG Qiaomei, PENG Wenshu, GONG Wanying, ZHAO Miaomiao, YAN Liang (1182)

Sorption of Oxytetracycline by Biochar with DOMs Preloading Treatment

..... SU Fan, WU Tingxun, DENG Hui, ZHAO Yuanyuan, LIN Tian, YU Huamei, WU Xiaochen, GE Chengjun (1190)

CN 46-1019/S*1980*m*A4*294*zh*P*¥50.00*500*40*2021-04