

《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



CHINESE JOURNAL OF
TROPICAL CROPS

热带作物学报

2022.12

第43卷 第12期 Vol. 43 No. 12

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

目次

组学与生物技术

- 巴西橡胶树 *HbRPW8* 基因克隆与表达分析 官鑫, 涂敏, 蔡海滨, 王云月, 胡彦师, 曾霞 (2395)
- 橡胶树 *HbPIP1;1* 基因的克隆及蛋白的亚细胞定位与多聚化分析 乔雪莹, 郑玉皎, 阳江华, 曾长英, 邹智 (2405)
- 橡胶树不同粒径橡胶粒子结合凝集相关蛋白的分析 丁欢, 吴绍华, 夏志辉, 黄惜, 史敏晶 (2413)
- 胡椒 *PnCAD* 基因的克隆和表达分析 孙也乔, 王珏, 胡丽松, 伍宝朵, 郝朝运, 范睿 (2422)
- 玉米 DUF1685 基因家族的鉴定和进化分析 罗璇, 林正雨, 陈章, 雷波, 李洁, 全津莹, 刘海岚 (2431)
- 高粱高效 *Ubiquitin* 启动子的克隆及活性鉴定 夏启玉, 贺萍萍, 张丽丽, 张雨良, 肖苏生, 赵辉 (2443)

作物栽培与生理生化

- 橡胶树叶片镁素含量高光谱估算 陈桂良, 刘忠妹, 许木果, 丁华平, 黎小清 (2453)
- 太空诱变百子莲 SP_1 代植株的性状鉴定及观赏性评价
..... 郭祥鑫, 戴逸峰, 张琰, 李孝青, 唐倩雯, 李清韵, 申晓辉, 陈冠群 (2461)
- 镉胁迫对姬松茸产量与镉吸收的效应及防控技术 陈华, 刘朋虎, 叶菁, 林怡, 翁伯琦, 王义祥 (2471)
- 姬松茸菌褶、担孢子及菌丝体微观形态观察 周宇, 黄在兴, 鲍兴禄, 李晶, 刘朋虎 (2482)
- 水培条件下晒对花生幼苗生长和开花及抗氧化酶活性的影响 施和平, 张晓元, 许晟 (2489)

植物保护与生物安全

- 饲料喂养方法评估草地贪夜蛾对玉米田多种植物的适应性
..... 廖惠敏, 郭焯珊, 黄子岸, 王佩越, 叶雨涵, 舒迎花, 王建武 (2496)
- 水黄皮中水黄皮素的提取及其对桔小实蝇的杀虫活性
..... 任军华, 赵永亮, 王辉, 李玖慧, 赵春杰, 卢绍鹏, 熊焰, 伍苏然 (2507)
- 13种苯丙烷代谢物对6种炭疽菌的抑菌活性研究 吴朋朋, 安尉, 许云凤, 罗丽娟, 蒋凌雁 (2515)
- 斑兰叶叶部病害病原菌的分离鉴定 苟亚峰, 薛超, 高圣风, 孙世伟, 秦晓威, 鱼欢, 田甜, 刘世超 (2527)
- 烟草叶斑病原菌 *Epicoccum laticollum* 的鉴定、生物学特性及室内药剂筛选
..... 安宣鲜, 桑维钧, 卢燕回, 孔菲, 王五权, 李昊熙, 杨江敏, 彭丽娟, 杨茂发 (2534)

采后处理与质量安全

- 螺杆挤压膨胀干燥对天然橡胶结构与性能的影响
..... 陈国靖, 王兵兵, 罗庭, 李高荣, 张福全, 廖建和, 廖禄生 (2545)
- 鸡蛋果大小测量的多种图像边缘检测算子对比 刘现, 林营志 (2554)
- 大厂茶优势株系芽叶性状与生化成分的鉴定与评价
..... 李彩云, 宋勤飞, 牛素贞, 赵支飞, 何应琴, 李芳, 马安权 (2564)
- 不同地理来源的黄毛草莓果实香气成分初步分析 王东, 陈丽娟, 李洪雯, 刘佳, 张国薇, 王建辉 (2576)

农业生态与环境保护

- 海南岛热带水果种植结构时空变化分析 叶露, 李玉萍, 梁伟红, 刘燕群, 秦小立, 邓春梅, 金琰 (2586)
- 旱季降雨格局变化对益智生长和碳氮代谢的影响 胡雯, 周小慧, 李勤奋, 程汉亭 (2597)
- 吊罗山石碌含笑群落木本植物种间联结性研究 魏亚情, 宋希强, 赵莹, 史佑海 (2606)
- 平潭岛台湾相思群落优势种群生态位研究 马晓迪, 姜德刚, 刘子琳, 王芳, 温瑞龙, 邓传远 (2614)

CHINESE JOURNAL OF TROPICAL CROPS

Dec. 2022 Vol. 43 No. 12 (Monthly, established in 1980)

CONTENTS

Omics & Biotechnology

Cloning and Expression Analysis of *HbRPW8* Gene from *Hevea brasiliensis*

.....GUAN Xin, TU Min, CAI Haibin, WANG Yunyue, HU Yanshi, ZENG Xia (2395)

Gene Cloning, Subcellular Localization and Multimerization Analysis of *HbPIPI1* from *Hevea brasiliensis*

.....QIAO Xueying, ZHENG Yujiao, YANG Jianghua, ZENG Changying, ZOU Zhi (2405)

Aggregation-related Proteins Binding to Rubber Particles with Different Diameter in Rubber Tree

.....DING Huan, WU Shaohua, XIA Zhihui, HUANG Xi, SHI Minjing (2413)

Cloning and Bioinformatics Analysis of Pepper *PnCAD* Gene by Race

.....SUN Yeqiao, WANG Jue, HU Lisong, WU Baoduo, HAO Chaoyun, FAN Rui (2422)

Identification and Evolutionary Analysis of Maize DUF1685 Gene Family

.....LUO Xuan, LIN Zhengyu, CHEN Zhang, LEI Bo, LI Jie, QUAN Jinying, LIU Hailan (2431)

Cloning and Activity Identification of High Efficiency *Ubiquitin* Promoters from Sorghum

.....XIA Qiyu, HE Pingping, ZHANG Lili, ZHANG Yuliang, XIAO Susheng, ZHAO Hui (2443)

Plant Cultivation, Physiology & Biochemistry

Hyperspectral Estimation for Magnesium Content of Rubber Tree Leaves

.....CHEN Guiliang, LIU Zhongmei, XU Mugu, DING Huaping, LI Xiaoqing (2453)

Character Identification and Ornamental Value Evaluation of SP₁ Generation of Space-induced *Agapanthus praecox*

.....GUO Xiangxin, DAI Yifeng, ZHANG Yan, LI Xiaoqing, TANG Qianwen, LI Qingyun, SHEN Xiaohui, CHEN Guanqun (2461)

Effects of Cadmium Stress on Yield and Cadmium Absorption of *Agaricus blazei* and Its Control Techniques

.....CHEN Hua, LIU Penghu, YE Jing, LIN Yi, WENG Boqi, WANG Yixiang (2471)

Microscopic Observations of Gills, Basidiospores and Mycelium in *Agaricus brasiliensis*

.....ZHOU Yu, HUANG Zaixing, BAO Xinglu, LI Jing, LIU Penghu (2482)

Effect of Selenium on Growth, Flowering and Activities of Antioxidant Enzymes of *Arachis hypogaea* Seedlings under

Hydroponic Conditions

.....SHI Heping, ZHANG Xiaoyuan, XU Sheng (2489)

Plant Protection & Bio-safety

Evaluating the Adaptation of *Spodoptera frugiperda* to Various Plants in Corn Field via Artificial Diet Method

.....LIAO Huimin, GUO Yeshan, HUANG Zian, WANG Peiyue, YE Yuhan, SHU Yinghua, WANG Jianwu (2496)

CHINESE JOURNAL OF TROPICAL CROPS

Dec. 2022 Vol. 43 No. 12 (Monthly, established in 1980)

Extraction of Karanjin from *Pongamia pinnata* and Its Insecticidal Activity Against *Bactrocera dorsalis*

.....REN Junhua, ZHAO Yongliang, WANG Hui, LI Jiuhui, ZHAO Chunjie, LU Shaopeng, XIONG Yan, WU Suran (2507)

Antifungal Activity of 13 Phenylpropanoid Metabolites Against Six *Colletotrichum* Species

..... WU Pengpeng, AN Wei, XU Yunfeng, LUO Lijuan, JIANG Lingyan (2515)

Isolation and Identification of Leaf Pathogen from *Pandanus amaryllifolius* Roxb.

.....GOU Yafeng, XUE Chao, GAO Shengfeng, SUN Shiwei, QIN Xiaowei, YU Huan, TIAN Tian, LIU Shichao (2527)

Identification, Biological Characteristics and Fungicide Screening of Tobacco Leaf Spot Disease Pathogen *Epicoccum laticollum*

.....AN Xuanxian, SANG Weijun, LU Yanhui, KONG Fei, WANG Wuquan,
LI Haoxi, YANG Jiangmin, PENG Lijuan, YANG Maofa (2534)

Post-harvest Treatment & Quality Safety

Influence of Screw Extrusion Expansion Drying on Structure and Properties of Natural Rubber

..... CHEN Guojing, WANG Bingbing, LUO Ting, LI Gaorong, ZHANG Fuquan, LIAO Jianhe, LIAO Lusheng (2545)

Comparative Study of Multiple Image Edge Detection Operators Applied to Size Measurement of *Passiflora edulia* Sims

..... LIU Xian, LIN Yingzhi (2554)

Identification and Evaluation on Leaf Bud Traits and Biochemical Components of Dominant Strains of *Camellia tachangensis*

..... LI Caiyun, SONG Qinfei, NIU Suzhen, ZHAO Zhifei, HE Yingqin, LI Fang, MA Anquan (2564)

Preliminary Analysis of Aroma Components in Fruits of Different Geographical Sources of *Fragaria nilgerrensis* Schlecht

..... WANG Dong, CHEN Iijuan, LI Hongwen, LIU Jia, ZAHNG Guowei, WANG Jianhui (2576)

Agricultural Ecology & Environmental Protection

Temporal and Spatial Variation of Tropical Fruit Planting Structure in Hainan Island

.....YE Lu, LI Yuping, LIANG Weihong, LIU Yanqun, QIN Xiaoli, DENG Chunmei, JIN Yan (2586)

Effects of Precipitation Pattern Change on the Growth Carbon and Nitrogen Metabolism of *Alpinia oxyphylla* During Dry Season

..... HU Wen, ZHOU Xiaohui, LI Qinfen, CHENG Hanting (2597)

Interspecific Association of Woody Plants in *Michelia shiluensis* Community, Diaoluoshan Nature Reserve, Hainan Province

.....WEI Yaqing, SONG Xiqiang, ZHAO Ying, SHI Youhai (2606)

Niche of Dominant Plant Populations of *Acacia confusa* Community in Pingtan Island

..... MA Xiaodi, JIANG Degang, LIU Zilin, WANG Fang, WEN Ruilong, DENG Chuanyuan (2614)