

# 果 树 学 报

JOURNAL OF FRUIT SCIENCE

2011 年 第 28 卷 第 2 期

## 目 次

### 研究论文

- 红肉脐橙等 5 个柑橘品种气孔器结构的比较研究 ..... 黄镜浩,温寿星,张凌媛,包 榕,吴 瑾,蔡子坚 (193)
- 树冠直接覆膜对清见橘橙树冠内环境因子的影响 ..... 王振兴,彭良志,淳长品,曹 立,凌丽俐,江才伦 (199)
- 桃树根际拮抗细菌 CE 抑菌物质对桃褐腐病菌的抑制作用和稳定性研究 ..... 杨海清,赵筱萌,赵晓燕,刘正坪 (204)
- 葡萄目标起始密码子多态性反应体系的优化 ..... 张君玉,郭大龙,龚 莹,刘崇怀,李 猛,张国海 (209)
- 广东果梅种质资源遗传多样性的 AFLP 分析 ..... 吴少平,曾继吾,黄永红,彭新湘,周碧容,甘廉生,易于军 (215)
- 金丝小枣等 4 个枣品种耐盐性与细胞质膜、液泡膜质子泵活性的关系 ..... 徐呈祥,徐锡增,马艳萍,尚旭岚 (221)
- 不同氮磷钾配比滴灌对灰枣产量与品质的影响 ..... 柴仲平,王雪梅,孙 霞,蒋平安,张 谦 (229)
- 土壤高温处理对连作草莓根系呼吸代谢及植株发育的影响 ..... 王素素,杜国栋,吕德国 (234)
- 菠萝微卫星指纹图谱的构建 ..... 童和林,冯素萍,贺军虎,王静毅,陈业渊,孙光明,于 飞,武耀廷 (240)
- 不同发育时期椰子叶片精油的提取与成分分析 ..... 马国峰,赵冬香,万树青,金启安 (246)
- 红富士苹果采后二氧化氯处理的保鲜作用 ..... 赵明慧,饶景萍,辛付存,夏源苑 (252)
- 基于 IRAP 技术的磨盘柿变异单株鉴定 ... 杜晓云,张青林,李 宝,冷 平,张明德,黄建民,罗正荣 (257)
- 冰温贮藏对柿果褐变以及相关指标的影响 ..... 董长林,李江阔,张 鹏,张 平,农绍庄 (263)
- 柑橘黄龙病菌侵染九里香不同方法研究 ..... 王 辉,丁 芳,钟 云,姜 波,易于军,王国平 (268)
- 10 种合成番石榴挥发物对橘小实蝇的引诱作用 ... 马 镡,张瑞萍,罗 诗,尹金华,王泽槐,李建国 (273)
- 香蕉枯萎病菌 4 号小种拮抗细菌的筛选与鉴定 ..... 周俊辉,游春平 (278)
- 香蕉枯萎病菌的风险性分析 ..... 谢梅琼,杨 媚,杨迎青,姜子德,周而勋 (284)
- 14 种植物乙醇提取物对荔枝粗胫翠尺蛾成虫产卵和幼虫取食的影响 .....

.....	成家宁,陈炳旭,曾鑫年,董易之,陆恒,徐淑	(290)
甜瓜抗蔓枯病基因 <i>Gsb-2</i> 的 ISSR 分子标记 .....	张永兵,陈劲枫,伊鸿平,钱春桃,吴明珠	(296)
网纹甜瓜 ( <i>Cucumis melo</i> ) 网络时代 3 号香气成分的 HS-SPME/GC-MS 分析 .....		
.....	赵光伟,刘君璞,徐志红,邢燕,徐永阳	(301)

### 专论与综述

果胶降解相关酶与果实成熟软化 .....	佟兆国,王飞,高志红,周军,徐秋红,章镇	(305)
柑橘果实生物活性物质与糖尿病防治研究进展 .....	靖丽,周志钦	(313)
葡萄生物学研究进入后基因组和系统生物学时代 .....		
.....	程宗明,章镇,张计育,叶霞,蔡斌,陶建敏	(321)

### 研究报告

苹果内源激素含量的变化与单果性状的关系 .....	陈迎春,李明,翟衡	(330)
不同地形对年橘留树保鲜果实品质的影响 .....		
.....	姜小文,曾继吾,姜波,黄永红,石雪晖,周碧容,易干军	(335)
香蕉不同器官中 NPK 含量及其积累规律 .....	刘芳,喻建刚,樊小林,王孝强	(340)
柑橘粉虱触角感器的扫描电镜观察 .....	郑丽霞,肖婷婷,吴伟坚,崔志新,符悦冠	(344)
茶皂素和噻菌灵混配对沙糖橘采后青绿霉菌的防治效果及品质的影响 .....		
.....	郝卫宁,李辉,杨柳,耿鹏,胡美英	(348)
垫跗螬成虫对椰心叶甲的捕食功能反应 .....	李朝绪,黄山春,马子龙,覃伟权,余凤玉,张振华	(353)

### 技术与方法

枇杷叶片和果实总蛋白质提取及双向电泳的优化方法 .....		
.....	马斌,孙骏威,余初浪,徐红霞,李素芳,陈贤	(358)

### 新品种选育报告

苹果抗轮纹病新砧木——烟砧一号的选育 .....	姜中武,李元军,于青,刘美英,赵玲玲,宋来庆	(363)
早熟梨新品种——早金酥的选育 .....	李俊才,刘成,王家珍,隋洪涛,蔡忠民,伊凯	(365)
葡萄极早熟新品种——夏至红的选育 .....	刘三军,蒯传化,于巧丽,刘崇怀,顾红,陈勇朋	(367)
晚熟中华猕猴桃新品种——皖金的选育 .....	贾兵,王谋才,孙俊,张水明,叶振风,朱立武	(369)
《果树学报》投稿须知 .....		(371)
《果树学报》编辑部论文著作权转让书 (220) 《果树学报》2011 年参考文献著录格式 (245)		

# JOURNAL OF FRUIT SCIENCE

Vol. 28 No. 2 2011

## CONTENTS

### Research Reports

- Comparison of stomatal structure among five citrus cultivars including Cara Cara Navel Orange .....  
..... HUANG Jing-hao, WEN Shou-xing, ZHANG Ling-yuan, BAO Rong, WU Jin, CAI Zi-jian (193)
- Effects of film covering on environmental factors inside the canopies of Kiyomi tangor trees .....  
..... WANG Zhen-xing, PENG Liang-zhi, CHUN Chang-pin, CAO Li, LING Li-li, JIANG Cai-lun (199)
- Antifungal mechanism against monilinia fruticola and stability of the antagonistic substance from bacterium  
strain CE ..... YANG Hai-qing, ZHAO Xiao-meng, ZHAO Xiao-yan, LIU Zheng-ping (204)
- Optimization of Start Codon Targeted Polymorphism PCR (SCoT-PCR) system in *Vitis vinifera* .....  
..... ZHANG Jun-yu, GUO Da-long, GONG Ying, LIU Chong-huai, LI Meng, ZHANG Guo-hai (209)
- AFLP analysis of genetic diversity in *Prunus mume* germplasm in Guangdong province .....  
..... WU Shao-ping, ZENG Ji-wu, HUANG Yong-hong,  
PENG Xin-xiang, ZHOU Bi-rong, GAN Lian-sheng, YI Gan-jun (215)
- Relationship between salt tolerances of *Ziziphus jujube* cv. Jinsixiaozao and other three cultivars .....  
and Proton Pump activities of plasma membrane and tonoplast in roots and leaves .....  
..... XU Cheng-xiang, XU Xi-zeng, MA Yan-ping, SHANG Xu-lan (221)
- Influence of N, P, K with drip irrigation on yield and fruit quality of Huizao .....  
..... CHAI Zhong-ping, WANG Xue-mei, SUN Xia, JIANG Ping-an, ZHANG Qian (229)
- Effects of soil sterilization treatments on root respiratory metabolism and development of strawberry under  
the replanting conditions ..... WANG Su-su, DU Guo-dong, LÜ De-guo (234)
- Establishment of fingerprinting for Pineapple (*Ananas comosus*) by SSR marker .....  
..... TONG He-lin, FENG Su-ping, HE Jun-hu,  
WANG Jing-yi, CHEN Ye-yuan, SUN Guang-ming, YU Fei, WU Yao-ting (240)
- Extraction and composition analysis of the essential oil of coconut leaves at different development stage .....  
..... MA Guo-feng, ZHAO Dong-xiang, WAN Shu-qing, JIN Qi-an (246)
- Effects of postharvest chlorine dioxide treatment on fresh-keeping of Red Fuji apple .....  
..... ZHAO Ming-hui, RAO Jing-ping, XIN Fu-cun, XIA Yuan-yuan (252)
- Mutations identification based on IRAP analysis in *Diospyros kaki* cv. Damopan ..... DU Xiao-yun,  
ZHANG Qing-lin, LI Bao, LENG Ping, ZHANG Ming-de, HUANG Jian-min, LUO Zheng-rong (257)
- Effect of freezing point storage on browning and physio-quality in persimmon .....  
..... DONG Chang-lin, LI Jiang-kuo, ZHANG Peng, ZHANG Ping, NONG Shao-zhuang (263)
- Comparison of different methods to transmit *Candidatus liberibacter asiaticus* to *Murraya paniculata* .....  
..... WANG Hui, DING Fang, ZHONG Yun, JIANG Bo, YI Gan-jun, WANG Guo-ping (268)
- Attraction of the ten kinds of synthetic guava volatile compounds to adults of *Bactrocera dorsalis* .....  
..... MA Ke, ZHANG Rui-ping, LUO Shi, YIN Jin-hua, WANG Ze-huai, LI Jian-guo (273)
- Screening and identification of antagonistic bacteria against *Fusarium oxysporum* f. sp. *cubense* race 4 .....  
..... ZHOU Jun-hui, YOU Chun-ping (278)
- Risk analysis of *Fusarium oxysporum* f. sp. *cubense*, the causal agent of banana fusarium wilt .....  
..... XIE Mei-qiong, YANG Mei, YANG Ying-qing, JIANG Zi-de, ZHOU Er-xun (284)

- Effects of ethanol extracts from 14 plant species on oviposition and feeding behavior of *Thalassodes immissaria* Walker (Lepidoptera: Geometridae) .....  
 ..... CHENG Jia-ning, CHEN Bing-xu, ZENG Xin-nian, DONG Yi-zhi, LU Heng, XU Shu (290)
- ISSR marker linked to gene *Gsb-2* resistant to gummy stem blight in melon (*Cucumis melo*) .....  
 ..... ZHANG Yong-bing, CHEN Jin-feng, YI Hong-ping, QIAN Chun-tao, WU Ming-zhu (296)
- Analysis of volatile compounds in netted melon (*Cucumis melo*) cultivar Wangluoshidai 3 by HS-SPME/GC-MS .....  
 ..... ZHAO Guang-wei, LIU Jun-pu, XU Zhi-hong, XING Yan, XU Yong-yang (301)

### Special Focus and Reviews

- Advances in research on the relationship between pectolytic enzymes and fruit softening .....  
 ..... TONG Zhao-guo, WANG Fei, GAO Zhi-hong, ZHOU Jun, XU Qiu-hong, ZHANG Zhen (305)
- Advances in research on the bioactive compounds of citrus fruits and their role in diabetes prevention and treatment .....  
 ..... JING Li, ZHOU Zhi-qin (313)
- Fruit crop research marches into the era of post-genomics and systems biology – the case of grapevine .....  
 ..... CHENG Zong-ming, ZHANG Zhen, ZHANG Ji-yu, YE Xia, CAI Bin, TAO Jian-min (321)

### Experiment Reports

- Study on the relationship between endogenous hormone content and single fruit set .....  
 ..... CHEN Ying-chun, LI Ming, ZHAI Heng (330)
- Effects of topography on quality of Longmen Nianju (*Citrus reticulata*) fruits stored on the tree without any treatment .....  
 ..... JIANG Xiao-wen,  
 ZENG Ji-wu, JIANG Bo, HUANG Yong-hong, SHI Xue-hui, ZHOU Bi-rong, YI Gan-jun (335)
- Research on Nitrogen, Phosphorus and Potassium contents and concentration law in banana .....  
 ..... LIU Fang, YU Jian-gang, FAN Xiao-lin, WANG Xiao-qiang (340)
- Ultra-structure observation on the antenna sensilla of adult citrus whitefly *dialeurodes citri* .....  
 ..... ZHENG Li-xia, XIAO Ting-ting, WU Wei-jian, CUI Zhi-xin, FU Yue-guan (344)
- Control efficacy against citrus green and blue mold and effects on postharvest storage quality of Shatang mandarin fruit by tea saponin combined with triabendazole .....  
 ..... HAO Wei-ning, LI Hui, YANG Liu, GENG Peng, HU Mei-ying (348)
- Predatory functional response of black earwig *Chelisoches morio* to coconut leaf beetle *Brontispa longissima* .....  
 ..... LI Chao-xu, HUANG Shan-chun, MA Zi-long, QIN Wei-quan, YU Feng-yu, ZHANG Zhen-hua (353)

### Techniques and Methods

- Optimization of protein isolation and method of two-dimensional electrophoresis from leaves and fruit of Loquat (*Eriobotrya japonica*) ... MA Bin, SUN Jun-wei, YU Chu-lang, XU Hong-xia, LI Su-fang, CHEN Xian (358)

### Breeding Reports

- Yanzhen 1, a new apple interstock with rough bark disease resistance .....  
 ..... JIANG Zhong-wu, LI Yuan-jun, YU Qing, LIU Mei-ying, ZHAO Ling-ling, SONG Lai-qing (363)
- Zao Jinsu, a new early pear cultivar .....  
 ..... LI Jun-cai, LIU Cheng, WANG Jia-zhen, SUI Hong-tao, CAI Zhong-min, YI Kai (365)
- Xiazhi Hong, a new early ripening grape cultivar .....  
 ..... LIU San-jun, KUAI Chuan-hua, YU Qiao-li, LIU Chong-huai, GU Hong, CHEN Yong-peng (367)
- Wanjin, a new late maturing Kiwifruit cultivar .....  
 ..... JIA Bing, WANG Mou-cai, SUN Jun, ZHANG Shui-ming, YE Zhen-feng, ZHU Li-wu (369)