



ISSN 1009-9980
CN41-1308/S



Q K 1 9 5 3 7 6 8

果树学报

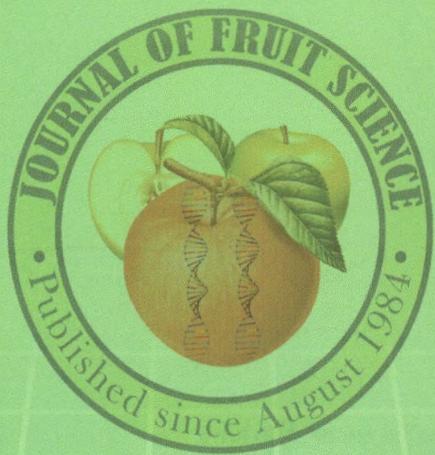
GUOSHU XUEBAO

JOURNAL OF FRUIT SCIENCE

第36卷 第12期

Vol. 36 No. 12

2019



ISSN 1009-9980



万方数据

中国农业科学院郑州果树研究所 主办



果 树 学 报

GUOSHU XUEBAO

2019年12月 第36卷 第12期(卷终)

目 次

种质资源·遗传育种·分子生物学

- 基于TRAP标记的苹果属种间遗传多样性分析 索相敏,郝 婕,冯建忠,鄢新民,王献革,李学营 (1609)
甜樱桃品种中新多态性SSR的鉴定、指纹图谱构建及聚类分析 王 晶,张开春,张晓明,闫国华,周 宇,段续伟,陈 玲 (1619)
澳洲坚果种质果实产量相关性状的多样性分析 谭秋锦,王文林,韦媛荣,郑树芳,黄锡云,何锐扬,陈海生 (1630)
龙眼胚性愈伤组织*DICK2-α*基因克隆、亚细胞定位及其表达特性分析 李珊珊,徐小萍,陈 旭,陈晓慧,李汉生,林玉玲,赖钟雄 (1638)
乙烯利诱导菠萝成花过程中*FT*基因的克隆与表达分析 阮城城,年宇薇,胡福初,王祥和,范鸿雁,吴凤芝,陈 哲,张治礼 (1648)

栽培·生理·生态

- 云南玉溪柑橘园土壤养分水平和叶片营养状况相关性分析 朱攀攀,李有芳,邱洁雅,王 敏,张超博,凌丽俐,施云庭,胡军华,张 蓉,李永奇,资丽玲,彭良志 (1658)
桃不同树形的冠层特征及对果实产量、品质的影响 牛茹萱,赵秀梅,王晨冰,张 帆,张雪冰,王发林 (1667)
植物生长调节剂对‘阳光玫瑰’葡萄果实无核及品质的影响 王 莎,程大伟,顾 红,李 明,何莎莎,李芳菲,谷世超,陈锦永 (1675)
磁化咸水灌溉对葡萄生长和土壤矿质养分的影响 王 涠,郭建曜,毕思圣,张志浩,王华田,刘秀梅,朱 红,唐 金,陈淑英,丛桂芝 (1683)
不同施钾量对‘骏枣’产量、品质及叶片光合特性的影响 朱祖雷,黄华梨,张露荷,王多锋,贾旭梅,王双成,赵 通,张夏燚,张 瑞,王延秀 (1693)
杧果幼胚发育阶段对离体培养物诱导效果的影响 许文天,武红霞,高玉尧,李 丽,梁清志,马小卫,姚全胜,詹儒林,王松标 (1704)

植物保护·果品质量与安全

- 氟啶虫酰胺和联苯菊酯在桃上的残留行为及膳食摄入风险评估 柳 璇,刘传德,鹿泽启,张 伟,臧宏伟,姚 杰,段小娜,王志新,邵玉杰 (1712)

贮藏·加工

- ‘贡柑’果实冷藏保鲜效果与果皮蜡质含量和化学组成及表面微形态结构的关系 郑福庆,徐呈祥,马艳萍,陈小婷,叶思敏,许素瑶 (1720)
桃树冠不同部位果实低温贮藏期间的品质变化 丁云龙,张斌斌,陈星星,王 娜,严 娟,马瑞娟,俞明亮,姜卫兵 (1731)
采摘成熟度对‘新白8号’枇杷常温贮藏效果的影响 许奇志,陈秀萍,邓朝军,蒋际谋 (1744)

专论与综述

- 国内外樱桃植原体(*Phytoplasma*)病害研究进展 穆 雪,赵 洋,李春艳,汪卫星 (1754)

技术与方法

- 发根农杆菌介导西瓜转基因过表达体系的建立 王平勇,徐永阳,赵光伟,贺玉花,孔维虎,张 健,刘水苗,户克云,侯 冲,王兰菊,徐志红 (1763)
西瓜枯萎病菌PCR分子检测方法研究 钟 鑫,赵 静,吴晓蕾,李敬蕊,吕桂云 (1771)

新品种选育报告

- 自花结实性早熟梨新品种‘宁酥蜜’的选育 谢智华,齐开杰,吴 俊,吴巨友,殷 豪,陶书田,谷 超,吴华清,黄小三,张虎平,王 鹏,张绍铃 (1780)
鲜食葡萄新品种‘中葡萄10号’的选育 章 鹏,李 灿,刘三军,贺亮亮,宋银花 (1783)
耐寒早实丰产核桃新品种‘剑丰’的选育 熊新武,李俊南,刘新梅,赵邦富,赵 平,严 媛,陆 斌,梁林波,刘金凤 (1787)

- 《果树学报》2019年第36卷总目次 (1792-1804)

编辑人员：陈新平,王 珂,和 静,王小丽,樊 辉

JOURNAL OF FRUIT SCIENCE

Dec. 2019 Vol. 36 No. 12

CONTENTS

Germplasm resources·Genetics & Breeding·Biotechnology

- Analysis of genetic diversity of *Malus* species resources by TRAP markers SUO Xiangmin, HAO Jie, FENG Jianzhong, YAN Xinmin, WANG Xian'ge, LI Xueying (1609)
Identification of new polymorphic SSRs, fingerprinting and cluster analysis in sweet cherry WANG Jing, ZHANG Kaichun, ZHANG Xiaoming, YAN Guohua, ZHOU Yu, DUAN Xuwei, CHEN Ling (1619)
Diversity analysis of fruit traits related to yield in *Macadamia* germplasms TAN Qiujiin, WANG Wenlin, WEI Yuanrong, ZHENG Shufang, HUANG Xiyun, HE Xianyang, CHEN Haisheng (1630)
Cloning and analysis of expression characteristics of CK2 in *Dimocarpus longan* Lour. LI Shanshan, XU Xiaoping, CHEN Xu, CHEN Xiaohui, LI Hansheng, LIN Yuling, LAI Zhongxiong (1638)
Expression and analysis of *FT* genes in pineapple flowering induced by ethephon RUAN Chengcheng, NIAN Yuwei, HU Fuchu, WANG Xianghe, FAN Hongyan, WU Fengzhi, CHEN Zhe, ZHANG Zhili (1648)

Cultivation·Physiology·Ecology

- Correlation between soil and leaf nutrient element contents in citrus orchards of Yuxi city, Yunnan province ZHU Panpan, LI Youfang, QIU Jieya, WANG Min, ZHANG Chaobo, LING Lili, SHI Yunting, HU Junhua, ZHANG Rong, LI Yongqi, ZI Liling, PENG Liangzhi (1658)
Effects of canopy characteristics on fruit yield and quality with different training systems in nectarines NIU Ruxuan, ZHAO Xiumei, WANG Chenbing, ZHANG Fan, ZHANG Xuebing, WANG Falin (1667)
Effects of plant growth regulators on the seedless rate and fruit quality of 'Shine Muscat' grape WANG Sha, CHENG Dawei, GU Hong, LI Ming, HE Shasha, LI Fangfei, GU Shichao, CHEN Jinyong (1675)
Effects of irrigation with magnetized saline water on *Vitis vinifera* growth and soil mineral nutrients WANG Lu, GUO Jianyao, BI Sisheng, ZHANG Zhihao, WANG Huatian, LIU Xiumei, ZHU Hong, TANG Jin, CHEN Shuying, CONG Guizhi (1683)
Effect of potassium application on yield, quality and photosynthetic characteristics in 'Junzao' jujube ZHU Zulei, HUANG Huali, ZHANG Luhe, WANG Duofeng, JIA Xumei, WANG Shuangcheng, ZHAO Tong, ZHANG Xiayi, ZHANG Rui, WANG Yanxiu (1693)
Effect of immature zygotic embryo development stage on *in vitro* culture for 'Renong 1' mango XU Wentian, WU Hongxia, GAO Yuyao, LI Li, LIANG Qingzhi, MA Xiaowei, YAO Quansheng, ZHAN Rulin, WANG Songbiao (1704)

Plant protection·Fruit quality & Safety

- Residues and dietary intake risk assessment of flonicamid and bifenthrin in peach LIU Xuan, LIU Chuande, LU Zeqi, ZHANG Wei, ZANG Hongwei, YAO Jie, DUAN Xiaona, WANG Zhixin, SHAO Yujie (1712)

Storage·Processing

- Relationship between fruit fresh-keeping effect with cold storage and peel wax content, chemical composition and surface micro-morphological structure in 'Gonggan' mandarin (*Citrus reticulate*) ZHENG Fuqing, XU Chengxiang, MA Yanping, CHEN Xiaoting, YE Simin, XU Suyao (1720)
Quality variations of peach fruit from different tree canopy positions during cold storage DING Yunlong, ZHANG Binbin, CHEN Xingxing, WANG Na, YAN Juan, MA Ruijuan, YU Ming-liang, JIANG Weibing (1731)
Effect of different harvest maturity on storage and quality of loquat 'Xinbai No. 8' at room temperature XU Qizhi, CHEN Xiuping, DENG Chaojun, JIANG Jimou (1744)

Special focus·Reviews

- International advances of the research on the phytoplasma diseases in cherry MU Xue, ZHAO Yang, LI Chunyan, WANG Weixing (1754)

Techniques·Methods

- Preliminary study on *Agrobacterium rhizogenes*-mediated gene overexpression system in watermelon WANG Pingyong, XU Yongyang, ZHAO Guangwei, HE Yuhua, KONG Weihu, ZHANG Jian, LIU Shuimiao, HU Keyun, HOU Chong, WANG Lanju, XU Zhihong (1763)
Polymerase chain reaction: a molecular diagnostic method for detection of *Fusarium oxysporum* f. sp. *niveum* ZHONG Xin, ZHAO Jing, WU Xiaolei, LI Jingrui, LÜ Guiyun (1771)

Breeding Reports

- Breeding report of a new self-fruitful pear cultivar 'Ningsumi' (*Pyrus pyrifolia*) XIE Zhihua, QI Kaijie, WU Jun, WU Juyou, YIN Hao, TAO Shutian, GU Chao, WU Huaqing, HUANG Xiaosan, ZHANG Huping, WANG Peng, ZHANG Shaoling (1780)
A new table grape variety 'Zhongputao No.10' ZHANG Peng, LI Can, LIU Sanjun, HE Liangliang, SONG Yinhua (1783)
'Jian Feng', a new walnut variety with cold resistance, early fruit and high yield XIONG Xinwu, LI Junnan, LIU Xinmei, ZHAO Bangfu, ZHAO Ping, YAN Yuan, LU Bin, LIANG Linbo, LIU Jinfeng (1787)

《果树学报》第七届编辑委员会成员名单

(2019. 01—2021. 12)

顾 问 王宇霖 束怀瑞 张上隆 张光伦 马宝焜

主 编 王志强

副主编 邓秀新 李绍华 方金豹 陈新平

委 员 (按姓氏笔画排序)

马峰旺 王力荣 王玉柱 王世平 王同坤 王国平 王贵禧 王跃进 古勤生
卢 江 叶正文 冯建灿 刘凤之 刘文革 刘庆忠 刘君璞 刘孟军 刘威生
刘崇怀 关军锋 汤浩茹 李 疆 李亚东 李秀根 杨国顺 吴 俊 汪良驹
张开春 张玉星 张运涛 张志宏 张绍铃 陈汉杰 陈昆松 陈学森 陈厚彬
陈清西 林顺权 易干军 罗正荣 周志钦 周常勇 郑少泉 郝玉金 段长青
俞明亮 徐小彪 徐永阳 郭文武 郭修武 黄旭明 黄宏文 曹 珂 曹尚银
戚行江 阎振立 韩振海 谢 鸣 谢江辉 詹儒林 滕元文 薛进军 戴洪义
姚家龙(新西兰) Desmond R. Layne(USA)

果 树 学 报

(1984年8月创刊,月刊,公开发行)

2019年12月10日 第36卷 第12期

Journal of Fruit Science

(Published since August 1984, Monthly)

2019-12-10 Vol. 36 No. 12

主 管 中华人民共和国农业农村部
主 办 中国农业科学院郑州果树研究所
支 持 江苏省农业科学院果树研究所
浙江省农业科学院园艺研究所
上海市农业科学院林木果树研究所
中国热带农业科学院南亚热带作物研究所
辽宁省果树科学研究所
主 编 王志强
编辑出版 《果树学报》编辑部
E-mail: guoshuxuebao@caas.cn
450009 河南省郑州市未来路南端
中国农业科学院郑州果树研究所
电 话 编辑部:(0371)63387308,65330928
发行部: 65330982
印 刷 河南瑞之光印刷股份有限公司
国内发行 郑州市邮政局
订 购 处 全国各地邮局(所)
国外发行 中国国际图书贸易总公司
(北京399信箱,100044)

Responsible Institution: Ministry of Agriculture and Rural Affairs of the People's Republic of China
Sponsored by: Zhengzhou Fruit Research Institute, CAAS
Jointly Sponsored by: Institute of Pomology, Jiangsu Academy of Agricultural Sciences
Institute of Horticulture, Zhejiang Academy of Agricultural Sciences
Research Institute of Forestry & Pomology, Shanghai Academy of Agricultural Sciences
South Subtropical Crops Research Institute, Chinese Academy of Tropical Agricultural Sciences
Liaoning Institute of Pomology
Editor-in-chief: Wang Zhiqiang
Edited and Published by: Office of Journal of Fruit Science
E-mail: guoshuxuebao@caas.cn
Zhengzhou Fruit Research Institute, CAAS
450009 South Weilai Road, Zhengzhou, Henan
Tel: Editing Office: (0371)63387308, 65330928
Distribution Office: 65330982
Printed by: Henan Ruizhiguang Printing Co., LTD.
Domestic Distribution: Zhengzhou Post Office
Domestic Subscription: All Local Post Offices in China
Foreign Distribution:
China International Book Trading Corporation
(P. O. Box 399, Beijing, 100044 China)