



ISSN 1009-9980
CN 41-1308/S

果树学报

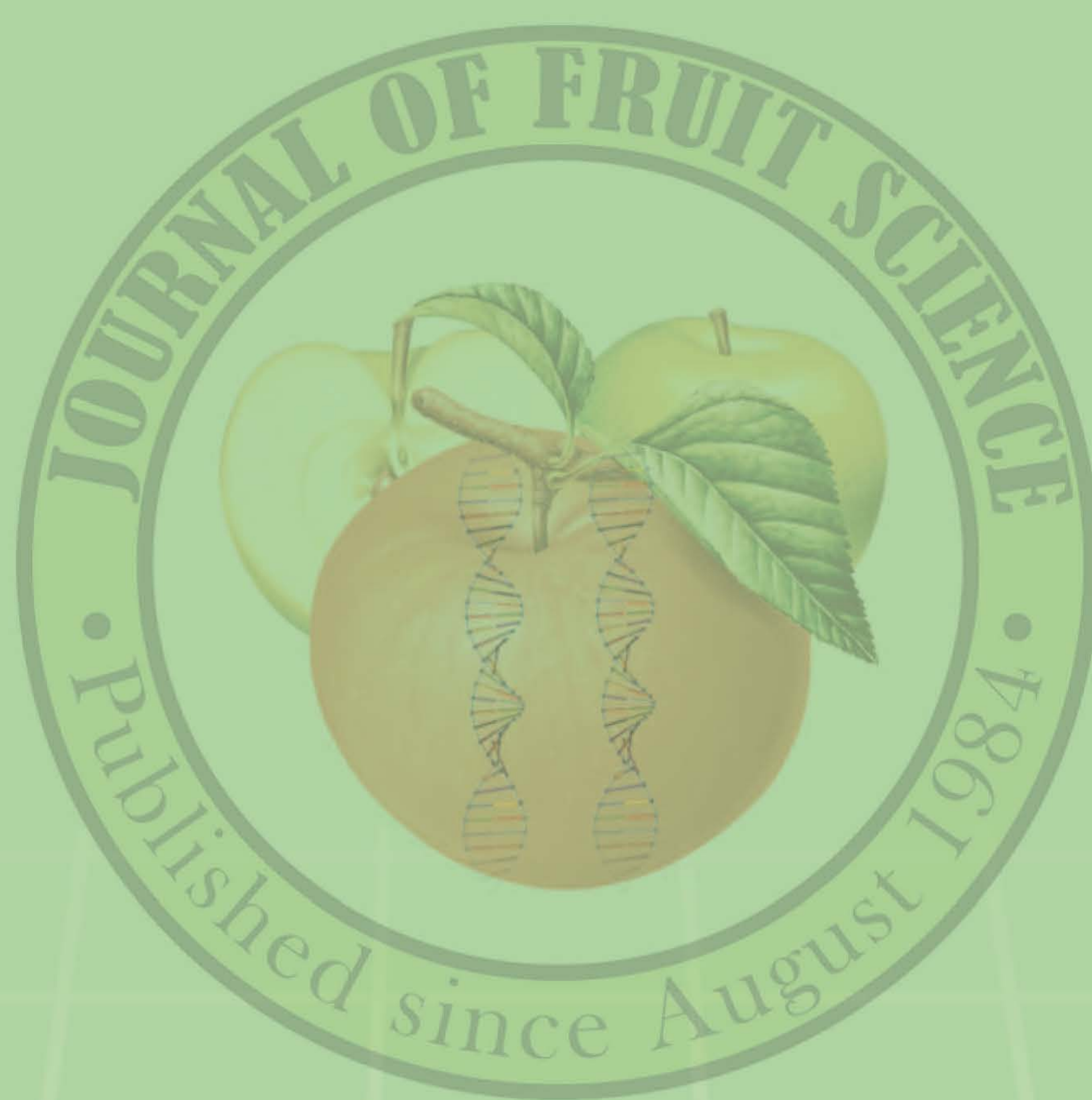
GUOSHU XUEBAO

JOURNAL OF FRUIT SCIENCE

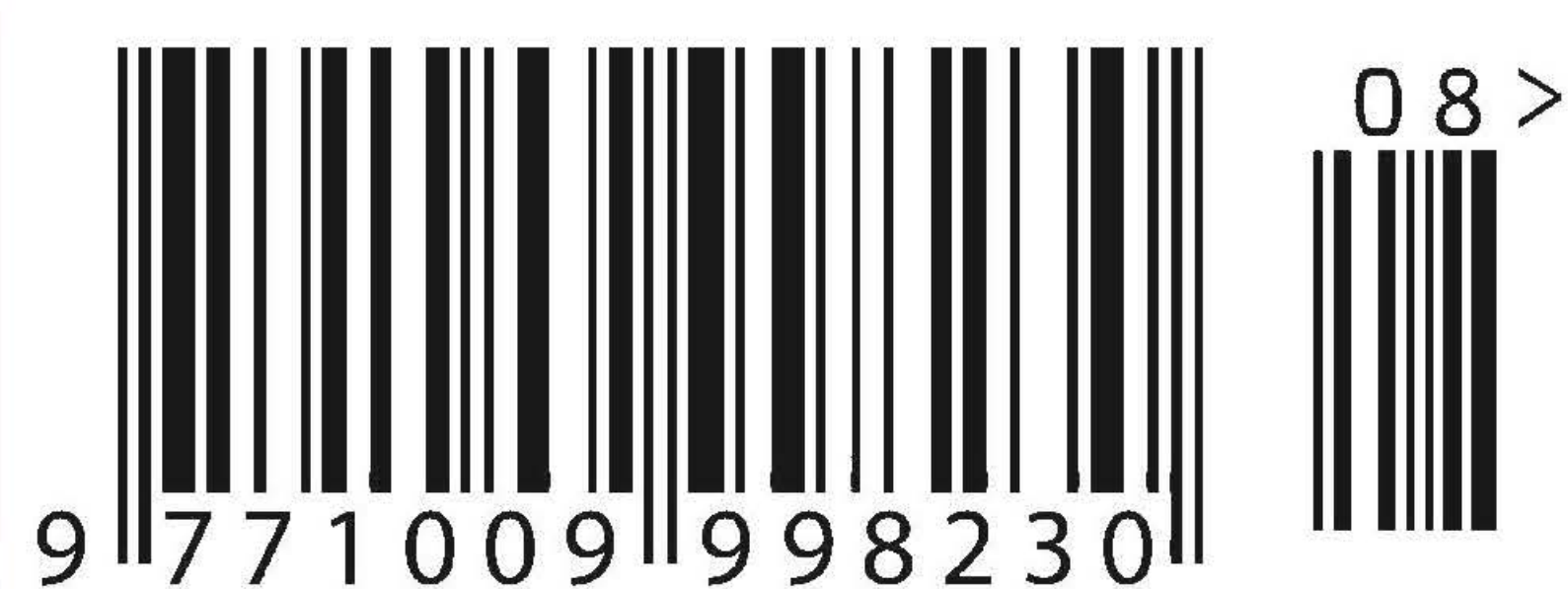
第40卷 第8期

Vol.40 No.8

2023



ISSN 1009-9980



中国农业科学院郑州果树研究所 主办



果 树 学 报

GUOSHU XUEBAO

2023年8月 第40卷 第8期

目 次

种质资源·遗传育种·分子生物学

- 酿酒葡萄香宝馨与赤霞珠正反交后代果实性状遗传变异分析 谢 军,王 荣,徐美隆,乔改霞,刘玉娟,余泽龙,李 毅 (1509)
- 35 份软枣猕猴桃资源果实品质分析与综合评价 何艳丽,秦红艳,温锦丽,范书田,杨义明,张宝香,曹炜玉,路文鹏,李昌禹 (1523)
- 基于 SLAF-seq 技术的不同类型越橘遗传变异和群体结构研究 刘有春,李嘉琦,魏 鑫,杨艳敏,张 舵,王兴东,孙 斌,杨玉春,王 升,高树清,王宏光,徐艺格,袁兴福,刘 成 (1534)
- 73 份草莓种质资源表型性状的遗传多样性分析及在湖北省的综合评价 肖桂林,管自豪,张思思,温 昕,陈锡洋,曾祥国,张庆华,刘 爽,刘思佳,王 涌,邓江丽,韩永超 (1546)

栽培·生理·生态

- 猪粪有机肥对红富士苹果产量及品质的影响 马悦欣,刘乐彤,唐 锐,孙国涛,史新娥,邹养军 (1559)
- 外源褪黑素对重茬胁迫下平邑甜茶幼苗元素吸收利用的影响 何晓龙,刘怀特,张纪冉,尚雨薇,周莎莎,李中勇,张学英,徐继忠,梁博文 (1572)
- 外源褪黑素对玉露香梨常温贮藏品质和生理特性的影响 于宛婷,王文辉,张鑫楠,阎维巍,孙晓楠,贾晓辉 (1583)
- 水分胁迫对马瑟兰葡萄果实挥发性物质合成的影响 殷梦婷,代红军,贺 琰,汪月宁,郭学良,刘 妍,王振平 (1592)
- 柠檬酸与草酸不同施用浓度对葡萄产量、品质及养分吸收的影响 司 鹏,邵 微,徐国益,于会丽,谢 宁,杜国强 (1606)
- 负载平衡对龙眼结果母枝生长、结果和果实品质的影响 韩冬梅,黄石连,李建光,郭栋梁,吴振先,罗 焘,吕新民,王 静 (1615)
- 荔枝成花、坐果与现“白点”期和末次秋梢期成熟期的关系研究 苏钻贤,杨胜男,黄 悦,万志远,申济源,陈厚彬 (1628)
- 不同栽培品种(系)橄榄香气成分特征及差异研究 郑宗昊,张向争,徐 荣,王乃玉,傅芳浩,谷梦雅,潘腾飞,余文琴 (1640)
- 3 个不同类型西瓜品种果实发育过程中游离氨基酸的积累分析 杨东东,袁 明,路绪强,龚成胜,赵 永,袁 飞,刘文草 (1651)

植物保护·果品质量与安全

- 水杨酸甲酯缓释调控果园捕食性瓢虫控害效果 吴长兵,肖 达,刘飞宇,孙潇然,王 杰,王 甦,郭晓军,徐庆宣 (1666)
- 柑橘轮斑病症状、发病规律及 47 个柑橘品种的抗性测定 陈 泉,张文晶,何锦辉,徐嵩琳,郭建伟 (1675)
- 梨火疫病菌在库尔勒香梨枝条中的侵染定殖和扩展特征研究 吕天宇,徐琳赞,席海坤,韩 剑,罗 明 (1692)
- 阳光玫瑰葡萄叶片黄化原因及矫正效果研究 王绍祖,樊秀彩,张 颖,孙 磊,王 冉,姜建福,刘崇怀 (1703)

贮藏·加工

- 6 个制汁葡萄果实品质差异分析 荀志丽,马小河,黄丽萍,王 敏,刘晓婷,赵旗峰 (1717)

专论与综述

- 果实涩味物质代谢调控研究进展 邢宏阳,吴金龙,王力荣 (1728)
- 柿多倍体育种研究进展 蒲婷婷,张 琦,王艺儒,孙 鹏,白玉娥,索玉静,傅建敏 (1741)

技术与方法

- 基于近红外光谱法建立核桃仁可溶性蛋白质含量检测模型 罗浪琴,王 涛,刘国庆,赵文革,张 锐,于 军,陆 斌,陈天财 (1750)

新品种选育报告

- 中熟桃新品种夏之脆的选育 田启航,常瑞丰,李 杰,王召元,陈 湖,刘国俭,李永红 (1762)
- 桃抗再植病障碍砧木中桃抗砧 1 号的选育 王力荣,王新卫,朱更瑞,方伟超,陈昌文,曹 珂,李 勇,吴金龙,王玲玲,牛 棚 (1766)
- 特早熟无核葡萄新品种天工翠香蜜的选育 郑 婷,程建徽,魏灵珠,向 江,吴 江 (1771)
- 早熟优质杏新品种中杏 3 号的选育 夏乐晗,黄振宇,刘红君,陈 龙,陈玉玲 (1774)
- 荔枝新品种玲珑荔枝的选育 凡 超,肖维强,刘 伟,匡石滋,金 峰,孟祥春,蒋依辉,向 旭 (1779)
- 果桑新品种楚榭 1 号的选育 李 勇,黄 锦,于 翠,莫荣利,朱志贤,董朝霞,胡兴明,邓 文 (1784)
- 《果树学报》投稿须知 (1788)

社 长: 张 莉 责任编辑: 王 珂,和 静

编辑人员: 王 珂,和 静,王小丽,陈新平,樊 辉

JOURNAL OF FRUIT SCIENCE

Aug. 2023 Vol. 40 No. 8

CONTENTS

Germplasm resources · Genetics & Breeding · Biotechnology

- Analysis of genetic tendency of fruit traits in the reciprocal hybrids of wine grape Chambourcin and Cabernet Sauvignon XIE Jun, WANG Rong, XU Meilong, QIAO Gaixia, LIU Yujuan, YU Zelong, LI Yi (1509)
- Quality analysis and comprehensive evaluation of 35 *Actinidia arguta* accessions HE Yanli, QIN Hongyan, WEN Jinli, FAN Shutian, YANG Yiming, ZHANG Baoxiang, CAO Weiyu, LU Wenpeng, LI Changyu (1523)
- Genetic variation and structure analysis of different type blueberries (*Vaccinium* spp.) based on SLAF-seq technology LIU Youchun, LI Jiaqi, WEI Xin, YANG Yanmin, ZHANG Duo, WANG Xingdong, SUN Bin, YANG Yuchun, WANG Sheng, GAO Shuqing, WANG Hongguang, XU Yige, YUAN Xingfu, LIU Cheng (1534)
- Genetic diversity and comprehensive evaluation of phenotypic traits in 73 germplasm resources of cultivated strawberries grown in Hubei province ... XIAO Guilin, GUAN Zihao, ZHANG Sisi, WEN Xin, CHEN Xiyang, ZENG Xiangguo, ZHANG Qinghua, LIU Shuang, LIU Sijia, WANG Yong, DENG Jiangli, HAN Yongchao (1546)

Cultivation · Physiology · Ecology

- Effects of organic fertilizer of pig manure on yield and quality of Red Fuji apple MA Yuexin, LIU Letong, TANG Rui, SUN Guotao, SHI Xin'e, ZOU Yangjun (1559)
- Effects of exogenous melatonin on the uptake and utilization of nutrients in *Malus hupehensis* seedlings under replant stress HE Xiaolong, LIU Huaite, ZHANG Jiran, SHANG Yuwei, ZHOU Shasha, LI Zhongyong, ZHANG Xueying, XU Jizhong, LIANG Bowen (1572)
- Effects of exogenous melatonin on fruit quality and physiological characteristics during room temperature storage in Yuluxiang pear YU Wanting, WANG Wenhui, ZHANG Xinnan, YAN Weiwei, SUN Xiaonan, JIA Xiaohui (1583)
- Effects of water stress on the synthesis of volatile compounds in Marselan grape berries YIN Mengting, DAI Hongjun, HE Yan, WANG Yuening, GUO Xueliang, LIU Yan, WANG Zhenping (1592)
- Effects of different concentrations of citric acid and oxalic acid on yield, quality and nutrient absorption of grape SI Peng, SHAO Wei, XU Guoyi, YU Huili, XIE Ning, DU Guoqiang (1606)
- Effects of load balance on the fruiting-branch growth, fruit bearing and fruit quality of longan HAN Dongmei, HUANG Shilian, LI Jianguang, GUO Dongliang, WU Zhenxian, LUO Tao, LÜ Xinmin, WANG Jing (1615)
- Relationship between flowering rate and fruit set, and the dates of "white millete" appearance and last autumn shoot flush maturation in litchi SU Zuanxian, YANG Shengnan, HUANG Yue, WAN Zhiyuan, SHEN Jiyuan, CHEN Houbin (1628)
- Study on the characteristics and differences in aroma components among different cultivars of *Canarium album* ZHENG Zonghao, ZHANG Xiangzheng, XU Rong, WANG Naiyu, FU Fanghao, GU Mengya, PAN Tengfei, SHE Wenqin (1640)
- Analysis of free amino acids accumulation during fruit development in three different types of watermelons YANG Dongdong, YUAN Ming, LU Xuqiang, GONG Chengsheng, ZHAO Yong, YUAN Fei, LIU Wenge (1651)

Plant protection · Fruit quality & Safety

- Evaluation of the biocontrol capacity of slow-release methyl salicylate by mediating abundance of predatory ladybirds in orchards WU Changbing, XIAO Da, LIU Feiyu, SUN Xiaoran, WANG Jie, WANG Su, GUO Xiaojun, XU Qingxuan (1666)
- Symptoms and occurrence regularity of citrus target spot in the field and the resistance determination of 47 citrus varieties CHEN Quan, ZHANG Wenjing, HE Jinhui, XU Songlin, GUO Jianwei (1675)
- Characterization of the infectious colonization and expansion with GFP tagged strain of *Erwinia amylovora* in Kuerlexiangli pear (*Pyrus sinkiangensis* Yu) shoots LÜ Tianyu, XU Linyun, XI Haishen, HAN Jian, LUO Ming (1692)
- Causes and correction efficacy of leaf chlorosis of Shine Muscat grapevine WANG Shaozu, FAN Xiucui, ZHANG Ying, SUN Lei, WANG Ran, JIANG Jianfu, LIU Chonghuai (1703)

Storage · processing

- Difference analysis on the berry quality among six juicing grape cultivars XUN Zhili, MA Xiaohe, HUANG Liping, WANG Min, LIU Xiaoting, ZHAO Qifeng (1717)

Special focus · Reviews

- Advances in the metabolism and regulation of astringent substances in fruits XING Hongyang, WU Jinlong, WANG Lirong (1728)
- Research advances and prospects in polyploid breeding of persimmon PU Tingting, ZHANG Qi, WANG Yiru, SUN Peng, BAI Yu'e, SUO Yujing, FU Jianmin (1741)

Techniques · Methods

- A model for soluble protein content detection of walnuts based on near infrared spectroscopy LUO Langqin, WANG Tao, LIU Guoqing, ZHAO Wenge, ZHANG Rui, YU Jun, LU Bin, CHEN Tiancai (1750)

Breeding Reports

- Breeding report of a new mid-ripening peach cultivar Xiazhicui TIAN Qihang, CHANG Ruifeng, LI Jie, WANG Zhaoyuan, CHEN Hu, LIU Guojian, LI Yonghong (1762)
- A new resistance replantation disease peach rootstock Zhongtaokangzhen No.1 WANG Lirong, WANG Xinwei, ZHU Gengrui, FANG Weichao, CHEN Changwen, CAO Ke, LI Yong, WU Jinlong, WangLingling, NIU Peng (1766)
- A new early ripening seedless grape cultivar Tiangong Cuixiangmi ZHENG Ting, CHENG Jianhui, WEI Lingzhu, XIANG Jiang, WU Jiang (1771)
- Breeding report of a superior early-maturing apricot cultivar Zhongxing No. 3 XIA Lehan, HUANG Zhenyu, LIU Hongjun, CHEN Long, CHEN Yuling (1774)
- Breeding report of a new litchi cultivar Linglong Litchi FAN Chao, XIAO Weiqiang, LIU Wei, KUANG Shizi, JIN Feng, MENG Xiangchun, JIANG Nonghui, XIANG Xu (1779)
- Breeding report of a new fruit mulberry cultivar Chushen 1 LI Yong, HUANG Jin, YU Cui, MO Rongli, ZHU Zhixian, DONG Zhaoxia, HU Xingming, DENG Wen (1784)

《果树学报》第八届编辑委员会成员名单
(2022.01—2024.12)

顾 问	束怀瑞	张上隆	张光伦	马宝焜	林顺权	李绍华	陈学森	戴洪义	王志强
主 编	方金豹								
副主编	韩振海	陈昆松	马锋旺	谢江辉	王力荣	刘崇怀	陈新平	王 珂	
委 员	(按姓氏笔画排序)								
	王玉柱	王世平	王国平	王贵禧	王爱德	王海波	方从兵	古勤生	叶正文
	冯建灿	刘凤之	刘文革	刘庆忠	刘孟军	刘威生	齐秀娟	关军锋	汤浩茹
	孙崇德	李天红	李亚东	李明军	杨国顺	吴 俊	吴巨友	汪良驹	沈元月
	张开春	张玉星	张运涛	张志宏	张绍铃	陈佰鸿	陈厚彬	陈清西	陈锦永
	易干军	罗正荣	周永锋	周志钦	周厚成	周常勇	郑少泉	郑先波	胡桂兵
	钟彩虹	段长青	俞明亮	夏 瑞	徐 强	徐小彪	徐永阳	郭文武	黄旭明
	曹 珂	曹尚银	戚行江	阎振立	梁振昌	彭福田	程运江	焦中高	曾文芳
	曾黎辉	詹儒林	滕元文	姚家龙(新西兰)		Desmond R. Layne(USA)			

著作权使用声明:本刊已许可中国知网以数字化方式复制、汇编、发行、信息网络传播本刊全文。本刊支付的稿酬已包含中国知网著作权使用费,所有署名作者向本刊提交文章发表之行为视为同意上述声明。如有异议,请在投稿时说明,本刊将按作者说明处理。

果 树 学 报		Journal of Fruit Science	
(1984年8月创刊,月刊,公开发行)		(Published since August 1984, Monthly)	
2023年8月10日 第40卷 第8期		2023-08-10 Vol. 40 No. 8	
主 管	中华人民共和国农业农村部	Responsible Institution: Ministry of Agriculture and Rural Affairs of the People's Republic of China	
主 办	中国农业科学院郑州果树研究所	Sponsored by: Zhengzhou Fruit Research Institute, CAAS	
支 持	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亚热带作物研究所 辽宁省果树科学研究所	Jointly Sponsored by: 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	
主 编	方金豹	Editor-in-chief: Fang Jinbao	
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	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	
电 话	编辑部:(0371)63387308,65330928 发行部: 65330982	Tel: Editing Office: (0371)63387308, 65330928 Distribution Office: 65330982	
印 刷	河南瑞之光印刷股份有限公司	Printed by: Henan Ruizhiguang Printing Co.,LTD.	
国内发行	郑州市邮政局	Domestic Distribution: Zhengzhou Post Office	
订 购 处	全国各地邮局(所)	Domestic Subscription: All Local Post Offices in China	
国外发行	中国国际图书贸易总公司 (北京399信箱,100044)	Foreign Distribution: China International Book Trading Corporation (P. O. Box 399, Beijing, 100044 China)	