

中文核心期刊
中国农业核心期刊
美国化学文摘社 (CAS) 收录期刊

全国优秀农业期刊
中国北方优秀期刊
黑龙江省优秀期刊

ISSN 1001-0009
CN 23-1247/S

北方园艺

NORTHERN HORTICULTURE

黑龙江省农业科学院
黑龙江省园艺学会 主办

12
2016

北方园艺

(1977 年创刊·半月刊)

BEIFANG YUANYI

总第 363 期 2016 年第 12 期 6 月(下)

目 次

◆试验研究◆

- 不同桃砧类型对盐胁迫的生理响应及耐盐性评价····· 郁万文,蔡金峰,高长忠(1)
- 灌溉管理措施对贺兰山东麓半干旱区酿酒葡萄的影响····· 李 磊,纪立东,王 锐,等(7)
- 基于作物水分亏缺指数的云南葡萄干旱状况时空差异分析····· 李雅善,王 波,杨云源,等(11)
- 文冠果种子休眠解除方法研究····· 赵 丹,金 华,宋鹏飞,等(16)
- 添加纳米 TiO_2 制作的人工种皮对种子萌发的影响····· 谷睿智,吴沿友,滕博群,等(20)
- ‘温 185’核桃雌花盛花期喷施肥料的坐果率效应····· 对山开勒得·热合木江,潘存德,刘伟伟(25)

◆研究简报◆

- 露地薄皮甜瓜新品种比较····· 田 梅,于 蓉,董 瑞,等(28)
- 蜜蜂采集梨花粉萌发活性及应用分析····· 宋怀磊,程 慧,李 亮,等(31)
- 不同修剪方式对“香玲”核桃新梢及有效穗芽的影响····· 张晓鹏,苟晓红,翟梅枝,等(34)

◆设施园艺◆

- 旱作区域日光温室礼品西瓜栽培适应性比较研究····· 朱倩楠,张丽娟,曲继松,等(37)

LED 光强和光质对“余干”辣椒幼苗生长和形态的影响 周 华,欧阳雪灵,刘淑娟,等(40)

◆栽培技术◆

☆果园☆

根域限制栽培技术在干旱区酿酒葡萄上的应用..... 冯胜利,刘金磊,钱生文,等(44)

“仲和红阳”中华猕猴桃选育及其高效栽培技术..... 王 倩,梁 红,刘忠平,等(46)

◆园林花卉◆

☆植物☆

五种城市道路绿化常绿灌木滞尘效应研究 刘海荣,高一丹,王 戴(49)

紫丁香嫩枝扦插繁殖生根影响因素研究..... 李 谦,刘益荣(54)

利用 EMS 进行青檀彩叶植株诱变研究 朱翠翠,张 林,王 峰,等(57)

不同品种紫斑牡丹茎结构与抗寒性关系研究..... 唐立红,赵雪梅,柴 圆,等(62)

中间锦鸡儿花水浸提液对三种作物种子萌发及幼苗生长的化感作用..... 刘学东,陈 林,杨新国,等(65)

丰花月季扦插繁殖技术研究..... 殷芳芳,吴 君,连黄涛,等(71)

不同光质处理对翠云草叶色变化的影响 张水木,彭媛媛,李 林(75)

◆生物技术◆

冬凌草异戊烯基焦磷酸异构酶基因(*IDI*)克隆与分析 苏秀红,尹 磊,陈随清(80)

管状花目中多酚氧化酶的序列分析与功能预测..... 郭宏波,孙奕玥,舒志明,等(85)

濒危植物羽叶丁香组织培养..... 程 明,李厚华,和子森,等(92)

新疆野扁桃自交不亲和相关基因 *PetSSK1* 转“梦幻”矮牵牛的研究 夏江宏,曾 斌,王建友,等(96)

Chrysanthemum weyrichii 基因组测定及 rDNA 定位 钱 双,李 昂,赵 鑫,等(101)

基于成熟期的杏品种遗传多样性 SSR 分析	崔华蕾,刘兴菊,赵思思,等(106)
-----------------------------	--------------------

◆植物保护◆

杀菌剂对草莓灰霉病菌的毒力测定及田间防效	王 丽,周增强,侯 琿(112)
贵州猕猴桃透翅蛾的发生与防治技术	田雪莲,尹显慧,龙友华,等(115)
枯草芽孢杆菌 BSD-2 诱导黄瓜抗灰霉病的作用研究	陈艳光,尹淑丽,刘洪伟,等(119)
三种生物药剂对核桃黑斑蚜的防治试验	高海鸣,高 峰,王秀琴,等(124)
温室葡萄烟蓟马的发生与防治	王金成,白杜娟,李志熙,等(127)

◆贮藏保鲜加工◆

丙二酸对沙芥属蔬菜叶片保鲜效果的影响	张晓艳,张凤兰,郝丽珍,等(129)
一氧化氮处理对采后枸杞鲜果生理效应的影响	冯 美,张 宁(135)
1-甲基环丙烯处理对常温货架期“安哥诺”李品质、呼吸速率及乙烯释放速率的影响	王景涛,李丽梅(139)

◆食 用 菌◆

平菇栽培过程中康氏木霉的发生及防治	严文岱(142)
玉米秆在灵芝制种中的应用	陈永敢,范平杰,李 珍,等(144)
基于 ITS 序列分析秦巴山区黑木耳菌株的遗传多样性	钱雪婷,陈文强,邓百万,等(147)
响应面法优化青海野生双孢菇发酵培养基	余 梅,焦迎春,孙 旭,等(152)

◆中 草 药◆

不同激素配比对白及愈伤组织诱导、增殖和分化的影响	徐德林,沈 访,钱 刚,等(157)
毛细管电泳—电化学检测法测定淮山中三种植物甾醇含量	胡月芳(162)

金钗石斛叶艺性状保持及丛生芽增殖研究 杨 澜,刘鹏飞,王爱华,等(166)

◆新品种选育◆

芸豆新品种“阜芸 1 号”选育及栽培要点 金嘉丰,王 群,李春光(171)

◆资源与环境◆

人为干扰条件下草场土壤呼吸研究 葛 楠,崔向新,韩彦隆,等(173)

几种物质对蓝莓土壤 pH 及有效 N、P、K 的影响 付 燕,杨 芩,张 杰,等(179)

有机培肥对贺兰山东麓酿酒葡萄及土壤化学性质的影响 许晓瑞,王 锐,纪立东,等(183)

天津典型绿化树种提供空气负离子研究 李少宁,刘 斌,石 媛,等(188)

◆产业论坛◆

基于生产视角的大城市蔬菜自给能力分析对策 王爱玲,淮贺举(194)

◆专题综述◆

光影响植物花青苷合成研究 占丽英,王 晶,林义章(197)

◆农业经纬◆

南京江河洲岛绿道网络构建策略分析 熊 星,唐晓岚,衣学慧,等(202)

◆经验交流◆

板栗林下套种百合栽培技术 潘 杰,裴晓蔚(208)

新疆南疆四地州果树间套作种植情况分析 鲜开梅,江 伟,王柏柯(209)

NORTHERN HORTICULTURE

(Started in 1977, Half Monthly)

Total NO. 363, NO. 12(2016), The Second Half of June

Contents

◆ Experimentation and Research ◆

- Physiological Responses of Different Peach Rootstocks to Salt Stress and Their Salt Tolerance Evaluation ... YU Wanwen, CAI Jinfeng, GAO Changzhong(1)
Effect of Irrigation Management on Wine Grapes in the Eastern Foot of Helan Mountain Area LI Lei, JI Lidong, WANG Rui, et al(7)
Analysis of Temporal-spatial Variation Characteristic on Drought of Grape Based on Crop Water Deficit Index in Yunnan Province
..... LI Yashan, WANG Bo, YANG Yunyuan, et al(11)
Study on Method for Breaking Dormancy for *Xanthoceras sorbifolia* Seed ZHAO Dan, JIN Hua, SONG Pengfei, et al(16)
Effect of Artificial Seed Coat Containing Nano TiO₂ on Germination GU Ruizhi, WU Yanyou, TENG Boqun, et al(20)
Effect of Spraying Fertilizer at the Full-blossom Period of Female Flowers on the Fruit Setting Rate of *Juglans regia* 'Wen185'
..... RAHMJAN Duisenkelde, PAN Cunde, LIU Weiwei(25)

◆ Research Notes ◆

- Study on Varieties Comparison of *Cucumis melo* L. in Open Cultivation TIAN Mei, YU Rong, DONG Rui, et al(28)
Study on the Germinability and Application of Bee-collected Pear Pollens SONG Huailei, CHENG Hui, LI Liang, et al(31)
Effect of Different Pruning Modes on New Branches and Available Buds of 'Xiangling' Walnut ... ZHANG Xiaopeng, GOU Xiaohong, ZHAI Meizhi, et al(34)

◆ Facilities Horticulture ◆

- Comparison Study on Varietal Adaptability of *Citrullus lanatus* in Arid Area ZHU Qiannan, ZHANG Lijuan, QU Jisong, et al(37)
Effect of LED Light Intensity and Quality on Growth and Morphology of 'Yugan' Pepper Seedlings
..... ZHOU Hua, OUYANG Xueling, LIU Shujuan, et al(40)

◆ Cultivation Technique ◆

- Application of Root Restricted Cultivation Technique in the Cultivation of Winegrape Clone in Arid Area
..... FENG Shengli, LIU Jinlei, QIAN Shengwen, et al(44)
Breeding of *Actinidia chinensis* Planch cv. 'Zhonghe Hongyang' and Its High Yield Production Cultivation Technology
..... WANG Qian, LIANG Hong, LIU Zhongping, et al(46)

◆ Garden Design and Garden Plants ◆

- Study on the Dust Retention Effect of Five Evergreen Shrubs of Urban Road Greening LIU Hairong, GAO Yidan, WANG Wei(49)
Research on Propagation Rooting Influencing Factor of *Syringa oblata* Twig LI Qian, LIU Yirong(54)
The Colorful Plant Mutation of *Pteroceltis tatarinowii* by EMS Treatment ZHU Cuicui, ZHANG Lin, WANG Feng, et al(57)
Study on the Relationship Between Stem Structure and Cold Resistance of Different Varieties of *Paeonia rockii*
..... TANG Lihong, ZHAO Xuemei, CHAI Yuan, et al(62)
Allelopathic Effects of Aqueous Extracts From *Caragana Intermedia*'s Flower on Seed Germination and Seeding Growth of Three Kinds of Crops
..... LIU Xuedong, CHEN Lin, YANG Xinguo, et al(65)
Study on Cutting Reproduction Technology of *Rosa floribunda* L. YIN Fangfang, WU Jun, LIAN Huangtao, et al(71)
Effect of Different Light Quality Treatments of Leaf Color Change of *Selaginella uncinata* ZHANG Shuimu, PENG Yuanyuan, LI Lin(75)

◆ Biotechnology ◆

- Cloning and Expression of cDNA Encoding Key Enzymes(Isopentenyl Diphosphate Isomerase)in Diterpenoids Biosynthesis Pathway From *Rabdosia rubescens*
Henrsi. Hara SU Xiuhong, YIN Lei, CHEN Suiqing(80)
Sequence Analysis of Polyphenol Oxidase in Tubiflorae Plants and Function Prediction GUO Hongbo, SUN Yiyue, SHU Zhiming, et al(85)

Tissue Culture of Endangered Plant <i>Syringa pinnatifolia</i>	CHENG Ming, LI Houhua, HE Zisen, et al(92)
Research on Wild Almond Self-incompatibility Related Gene <i>PetSSK1</i> Transferring Into <i>Petunia</i> 'Dream'	XIA Jianghong, ZENG Bin, WANG Jianyou, et al(96)
Estimation of Genomic Size and Physical Location of rDNA of <i>Chrysanthemum weyrichii</i>	QIAN Shuang, LI Ang, ZHAO Xin, et al(101)
Genetic Diversity of SSR Analysis of <i>Prunus armeniaca</i> Cultivars Based on Maturity	CUI Hualei, LIU Xingju, ZHAO Sisi, et al(106)

◆ Plant Protection ◆

Toxicity and Field Control Efficiency of Fungicides Against Strawberry <i>Botrytis cinerea</i>	WANG Li, ZHOU Zengqiang, HOU Hui(112)
Occurrence and Control Technology of the <i>Actinidia aegeriidae</i> in Guizhou	TIAN Xuelian, YIN Xianhui, LONG Youhua, et al(115)
Induced Resistance of Cucumber Against <i>Botrytis cinerea</i> by <i>Bacillus subtilis</i> BSD-2	CHEN Yanguang, YIN Shuli, LIU Hongwei, et al(119)
Three Kinds of Biological Agents Control Efficacy on <i>Chromaphis juglandicola</i> Kaltendbach	GAO Haiming, GAO Feng, WANG Xiuqin, et al(124)
Occurrence and Control of Thrips of Grape in Greenhouse	WANG Jincheng, BAI Dujuan, LI Zhixi, et al(127)

◆ Storage and Processing ◆

Effect of Malonic Acid on Preservation of Leaves of <i>Puionium</i> Gaertn.	ZHANG Xiaoyan, ZHANG Fenglan, HAO Lizhen, et al(129)
Physiological Effect of Nitric Oxide on Postharvest Fresh Fruits of <i>Lycium barbarum</i> L.	FENG Mei, ZHANG Ning(135)
Effect of 1-MCP on Quality and Respiratory Rate, Ethylene Releasing Rate of 'Angeleno' Plum During Shelf-time Storage at Room Temperature	WANG Jingtao, LI Limei(139)

◆ Edible Fungi ◆

Occurrence and Prevention of <i>Trichoderma koningi</i> in the Process of <i>Pleurotus ostreatus</i> Cultivation	YAN Wendai(142)
Application of Corn Straw in the Seed Production of <i>Ganoderma lucidum</i>	CHEN Yonggan, FAN Pingjie, LI Zhen, et al(144)
Analysis of the Genetic Diversity of <i>Auricularia auricular</i> Strains From Qinba Mountains Based on ITS Sequence	QIAN Xueting, CHEN Wenqiang, DENG Baiwan, et al(147)
Optimizing of Culture Medium of <i>Agaricus bisporus</i> (Lange)Imbach for Extracellular Exopolysaccharide Production by Response Surface Methodology	YU Mei, JIAO Yingchun, SUN Xu, et al(152)

◆ Chinese Traditional Medicine ◆

Effect of Different Hormone Combinations on the Induction, Proliferation and Differentiation of Callus in <i>Bletilla striata</i>	XU Delin, SHEN Fang, QIAN Gang, et al(157)
Determination of Three Phytosterols in Yam by Capillary Electrophoresis With Electrochemical Detection	HU Yuefang(162)
Research of Keeping Leaf Chimera and Proliferation of Multiple Shoots on <i>Dendrobium nobile</i>	YANG Lan, LIU Pengfei, WANG Aihua, et al(166)

◆ New Variety Breeding ◆

A New Kidney Bean Variety 'Fuyun No. 1' and Main Cultivation Point	JIN Jiafeng, WANG Qun, LI Chunguang(171)
--	--

◆ Resource and Environment ◆

Soil Respiration of Grassland Under Condition of Human Disturbance	GE Nan, CUI Xiangxin, HAN Yanlong, et al(173)
Effect of Several Substances on Soil pH and Available N, P, K in Soil of Blueberry	FU Yan, YANG Qin, ZHANG Jie, et al(179)
Effect of Organic Amendment on Wine Grapes and Soil Chemical Property in the Eastern Foot of Helan Mountain	XU Xiaorui, WANG Rui, JI Lidong, et al(183)
Study on Air Negative Ions of Typical Tree Species in Tianjin	LI Shaoning, LIU Bin, SHI Yuan, et al(188)

◆ Industry Forum ◆

Study on the Vegetable Self-sufficiency Capacity and Countermeasures in Beijing	WANG Ailing, HUAI Heju(194)
---	-----------------------------

◆ Summarize ◆

Effect of Light on Anthocyanin Synthesis in Plant	ZHAN Liying, WANG Jing, LIN Yizhang(197)
---	--

◆ Agricultural Relevant Issues ◆

Strategy Analysis of Nanjing Island Greenway Network	XIONG Xing, TANG Xiaolan, YI Xuehui, et al(202)
--	---

◆ Experience Exchange ◆

Analysis of Fruit Trees Intercropping Planting Situation of Southern Xinjiang's Four Regions	XIAN Kaimei, JIANG Wei, WANG Baige(209)
--	---

《北方园艺》第五届编委会

主任委员: 李文华

副主任委员: 李景富 秦智伟 李天来 陈青云 杨文月 陶可全 刘 德 耿月伟 闫文义
委 员: (以姓氏笔画为序)

于泽源 王秀峰 王清章 王傲雪 车代弟 冯国军 巩振辉 毕洪文 朱延明
刘 德 刘延杰 刘洪章 齐红岩 闫文义 许 勇 许修宏 李 敏 李文华
李天来 李玉花 李景富 杨文月 吴凤芝 邹志荣 陈立新 陈青云 陈宗礼
赵尊练 秦智伟 耿月伟 徐启江 栾非时 高庆玉 高智谋 陶可全 黄家风
崔继哲 韩贵清

编辑出版中心

主 任: 毕洪文
主 编: 毕洪文
编 辑: 王 冠 李晓晨 张海燕 李文枫
田志革 王 超 李 想

副 主 任: 苗玉新 黄峰华
责 任 编 辑: 黄峰华
广 告 发 行: 白晓琳

《北方园艺》

BEIFANG YUANYI

(半月刊, 1977年创刊)

2016年第12期(6月下), 总第363期

NORTHERN HORTICULTURE

(Half Monthly, Started in 1977)

No 12, 2016 (The Second Half of June), Total No. 363

主管单位 黑龙江省农业科学院

主办单位 黑龙江省农业科学院
黑龙江省园艺学会

编辑出版 《北方园艺》编辑部

地 址 哈尔滨市南岗区学府路368号

邮政编码 150086

电 话 0451-86674276

电子信箱 bfybjb@163.com

网 址 www.haasep.cn

印 刷 天元铸成实业有限公司

国内发行 哈尔滨市邮局

国外发行 中国国际图书贸易总公司
(北京399信箱)

广告经营许可证号 2301070000009

出版日期 每月15、30日

Competent Authority Heilongjiang Academy of Agricultural Sciences

Sponsored by Horticulture Society of Heilongjiang Province;
Heilongjiang Academy of Agricultural Sciences

Edited and Published by Editorial Department of Northern Horticulture

Address 368 Xuefu Road, Nangang District, Harbin, P.R. of China

Postalcode 150086

Tel 0451-86674276

E-mail bfybjb@163.com

Web www.haasep.cn

Printed by Tianyuan Zhucheng Industrial Co. Ltd.

Domestic Distributed by Harbin Post Office

Domestic Distributing Code 14-150

Oversea Distributed by International Book Trading Corporation P.O.
Box 399 Beijing, P.R. of China

Oversea Distributing Code BM 5011

Advertising Business Permit Number 2301070000009

Publishing Date Monthly 15th, 30th

Price RBM 15 yuan

国内邮发代号:14-150

国内统一连续出版物号: CN 23-1247/S

国外邮发代号:BM 5011

定 价:15.00元

ISSN 1001-0009

