

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

3

2016

北方园艺

(1977年创刊·半月刊)

BEIFANG YUANYI

总第 354 期 2016 年第 3 期 2 月(上)

目 次

◆试验研究◆

- 不同施肥量对甜瓜光合特性、产量及品质的影响..... 范 洁,李建明,张中典,等(1)
- 黄色线辣椒及其杂交组合品质特性研究..... 邵登魁(5)
- 酢浆草水浸液对茎瘤芥种子萌发和幼苗生长的化感效应 周先容,周 莉,杨 苗,等(9)
- 叶面喷施天然矿物肥对“巨峰”葡萄品质和抗氧化酶活性的影响..... 史海莉,刘利鸿,陈攀红,等(13)
- 不同根温处理对番茄叶片显微结构的影响..... 韩亚平,李亚灵,雷振宏,等(17)
- 十三个核桃品种幼苗叶片解剖结构与抗寒性的关系..... 马 婷,李 静,肖良俊,等(21)

◆研究简报◆

- 主干拉枝对“蒙山红”山楂枝类特性及结果性能的影响..... 杨 青,孟庆杰,王 建,等(25)
- 麻核桃花粉生活力与柱头可授性对坐果的影响..... 陈梦华,赵 丹,靳丽鑫,等(28)
- 两个无核葡萄品种胚及胚乳败育的细胞学研究..... 刘 巧,张立华,王跃进,等(31)
- 蔬菜种苗床式有机基质高效培育技术及效益 王忠红,关志华,陈双臣(35)

◆设施园艺◆

- 立柱栽培对不同叶菜产量的影响..... 王 正,刘明池,刘海河,等(39)

银川地区新品种“紫提 988”葡萄设施栽培技术 陈景蕊(43)

宁夏日光温室基质栽培不同菜豆适应性种植比较 杨冬艳,王学梅,吴雪梅,等(46)

◆栽培技术◆

☆果园☆

优质丰产杨梅栽培技术 聂谷华,朱迎强(49)

☆瓜园☆

红壤露地西瓜无公害高效栽培技术 龚火根(52)

◆园林花卉◆

☆植物☆

梭梭幼苗出土及生长对沙埋深度的响应 吕朝燕,张希明,高智席,等(55)

柳枝稷与苜蓿混作生长特征及竞争作用研究 高 阳,安 雨,王志锋,等(61)

镉胁迫下两个多年生黑麦草品种的生理响应 黄登峰,席嘉宾,赵运林(66)

温度和赤霉素浸种对两种高山杜鹃种子发芽的影响 刘 林,张良英,牛歆雨,等(69)

三种野生堇菜属植物的抗寒性研究 李素华,黄 晨,韩浩章,等(72)

紫叶水蜡种苗生产栽培技术 才 燕,董 然,赵春莉,等(74)

光温调控对切花菊“优香”养分利用及品质的影响 李春杰,姚进明,刘书辉,等(76)

☆景观☆

基于地中海式庭院景观的成本控制研究 罗彬杰,黄磊昌(81)

半干旱地区观赏地被植物应用研究 德力格尔,李媛媛,张天俊,等(87)

北京地区野生花卉景观营造的生态途径探析 李晓鹏,齐石茗月,董 丽(92)

◆生物技术◆

通过薄片培养技术建立白姜花高效植株再生体系 肖 望,涂红艳,张爱玲,等(96)

- 映山红多态性微卫星标记的跨物种扩增研究 王书珍, 骆 亮, 曾 宜, 等(100)
- K⁺ 诱导的洋葱细胞凋亡研究 赵锦慧, 古红梅(103)
- 山杏胚培养影响因素研究 刘晓光, 李贺丹(106)

◆植物保护◆

- 秋季温室不同番茄品种抗黄化曲叶病毒病抗性评价 毛 亮, 李海峰, 潘卫萍, 等(109)
- 不同栽培条件对葡萄霜霉病发病的影响 静大鹏, 温晓蕾, 李昕颖, 等(112)
- 几种杀虫剂对韭菜迟眼蕈蚊的室内毒力测定 周 超, 张田田, 梁 超, 等(115)
- 大棚连茬茄子根结线虫病的发生与病原鉴定 金 凤, 王 慧, 吴 亚, 等(117)

◆贮藏保鲜加工◆

- 一氧化氮对“大五星”枇杷贮藏期间果实抗氧化酶的影响 任艳芳, 何俊瑜, 刘 冬, 等(121)
- 复合保鲜剂处理对丽江雪桃贮藏防褐保鲜的影响 王石华(125)
- 不同温度对青脆李贮藏性的影响 张立新, 陈 嘉, 冯志宏(129)

◆食用菌◆

- 草栽平菇病虫害的综合防治技术 罗海凌, 苏德伟, 林 辉, 等(132)
- 桑枝屑香菇与杂木屑香菇的品质比较 徐建俊, 李 彪, 孙传齐, 等(134)

◆中 草 药◆

- 长白山区野生地椒百里香嫩枝扦插繁殖研究 金英花, AHN Younghee, 全雪丽, 等(138)
- 桔梗种质资源主要性状的遗传参数及其相关研究 于 营, 欧阳艳飞, 邢丽伟, 等(141)
- 地黄块根内生真菌的多样性研究 朱昀昊, 杜真辉, 董诚明, 等(145)

◆新品种选育◆

- 观赏狼尾草新品系‘LS-1’品种比较试验 王丽宏, 李会彬, 姜世杰, 等(149)

- 番茄新品种“东农 725”选育 张 磊,姜景彬,汪 强,等(153)
- 优良野生花卉牛耳岩白菜的品种选育 胡小三,唐新霖(155)

◆土壤与肥料◆

- 宁夏压砂地土壤全盐量和 pH 值的空间变异分析 潘佳颖,王建宇,王 超(157)
- 沙埋和土壤水分对冀北沙荒地封禁条件下土壤种子库的影响 陈 颖,朱 凯,刘 琳,等(163)
- 不同种衣剂对白菜生长及其根际土壤微生态的影响 陈 鹏,王 娟,丁方丽,等(169)

◆产业论坛◆

- 我国苹果的产业现状分析及节本增效关键技术 里程辉,刘 志,王 宏,等(174)
- 宁夏西吉县西芹产业发展现状问题和对策调查研究 撒金东,王 琳,郭志乾(178)

◆专题综述◆

- 洋葱细胞质雄性不育的分子机制 周婷婷,付雅莉,任洪杰,等(183)
- 葱属植物化感作用研究进展 杨 阳,何师国(189)
- 施用外源物质对园艺作物抗逆性影响研究进展 谷端银,王秀峰,杨凤娟,等(195)
- 桃病毒病及检测技术研究进展 董晓民,张 毅,刘 伟,等(199)

◆农业经纬◆

- 农村人力资本、劳动力转移与经济增长的门槛模型分析 龙 慧,胡志高,龚星文(204)

◆经验交流◆

- 北方室内盆栽绿萝的栽培养护管理技术 张玉晶(208)
- 日光温室嫁接西瓜高垄膜下水肥一体化栽培技术 肖 欢,张以和(209)
- 苹果盆景以“小”为美 姜存金(210)

NORTHERN HORTICULTURE

(Started in 1977, Half Monthly)

Total NO. 354, NO. 3(2016), The First Half of February

Contents

◆ Experimentation and Research ◆

- Effect of Different Amount of Fertilizer on Photosynthesis, Yield and Quality of Muskmelon FAN Jie, LI Jianming, ZHANG Zhongdian, et al(1)
- Study on Characteristics of Quality Traits of Yellow Line Hot Pepper and Hybridized Combination SHAO Dengkui(5)
- Allelopathic Effect of Aqueous Extract of *Oxalis corniculata* on Seed Germination and Seedling Growth of *Brassica juncea* var. *tumida*
..... ZHOU Xianrong, ZHOU Li, YANG Miao, et al(9)
- Effect of Natural Mineral Fertilizer on Fruit Quality and Activities of Antioxidant Enzymes of 'Kyoho' Grape
..... SHI Haili, LIU Lihong, CHEN Panhong, et al(13)
- Influence of Different Root Temperature Treatment on Tomato Leaves Microstructure HAN Yaping, LI Yaling, LEI Zhenhong, et al(17)
- Study on the Relationship Between Cold Hardiness and Leaf Anatomy of Thirteen Walnut Cultivars in Seedling
..... MA Ting, LI Jing, XIAO Liangjun, et al(21)

◆ Research Notes ◆

- Effect of Trunk-bending on Branch Characteristics and Fruit Setting Performance of 'Mengshanhong' Hawthorn
..... YANG Qing, MENG Qingjie, WANG Jian, et al(25)
- Effect of Pollen Viability and Stigma Receptivity of *Juglans hopeiensis* Hu to Fruit Setting CHEN Menghua, ZHAO Dan, JIN Lixin, et al(28)
- Cytological Study of Embryo and Endosperm Abortion in Two Seedless Grape Varieties LIU Qiao, ZHANG Lihua, WANG Yuejin, et al(31)
- Benefit and High Efficient Cultivation Technique for Vegetables Seedling Using Organic Substrate With Bed Type
..... WANG Zhonghong, GUAN Zhihua, CHEN Shuangchen(35)

◆ Facilities Horticulture ◆

- Influence of Different Leaf Vegetables Yield on Columns Cultivation WANG Zheng, LIU Mingchi, LIU Haihe, et al(39)
- Facility Cultivation Techniques of a New Variety Grape 'Purple Globe 988' in Yinchuan Area CHEN Jingrui(43)
- Adaptability Plant Comparison of Different Bean Under Substrate in Solar Greenhouse in Ningxia ... YANG Dongyan, WANG Xuemei, WU Xuemei, et al(46)

◆ Cultivation Technique ◆

- Good-quality and High-yield Cultivation Techniques of Red Bayberry NIE Guhua, ZHU Yingqiang(49)
- High Efficient Cultivation Techniques of Non-pollution in Red Earth of Watermelon GONG Huogen(52)

◆ Garden Design and Garden Plants ◆

- Seedling Emergence and Growth Responses of *Haloxylon ammodendron* to Sand Burial Depth LYU Chaoyan, ZHANG Ximing, GAO Zhixi, et al(55)
- Growth Characteristics and Competitive Ability of Switchgrass and Alfalfa in Mixed Planting GAO Yang, AN Yu, WANG Zhifeng, et al(61)
- The Physiological Response of Two Varieties of *Lolium perenne* Under Cadmium Stress HUANG Dengfeng, XI Jiabin, ZHAO Yunlin(66)
- Effect of Temperature and GA on Two Species Alpine *Rhododendron* Seeds Germination LIU Lin, ZHANG Liangying, NIU Xinyu, et al(69)
- Research on Cold Resistance of Three Species of Wild Genus *Viola* LI Suhua, HUANG Chen, HAN Haozhang, et al(72)
- Cultivation Techniques of *Ligustrum obtusifolium* Sieb. et Zucc. Seedlings Production CAI Yan, DONG Ran, ZHAO Chunli, et al(74)
- Effect of Light and Temperature Control Techniques on Nutrition Use and Product Quality of Cut Chrysanthemum 'Yuka'
..... LI Chunjie, YAO Jinming, LIU Shuhui, et al(76)
- Research on Cost Control of Courtyard Landscape Based on Mediterranean-style Courtyard LUO Binjie, HUANG Leichang(81)
- Application Research on Ornamental Groundcover Plants in Semiarid Regions DELIGEER, LI Yuanyuan, ZHANG Tianjun, et al(87)
- The Ecological Approach to Landscape Construction of Wild Flowers in Beijing LI Xiaopeng, QI Shimingyue, DONG Li(92)

◆ Biotechnology ◆

- Plant Regeneration From *Hedychium coronarium* via Thin Layer Culture XIAO Wang, TU Hongyan, ZHANG Ailing, et al(96)
- Study on Cross-species Amplification of Polymorphic Simple Sequence Repeat Markers From *Rhododendron simsii*
..... WANG Shuzhen, LUO Liang, ZENG Yi, et al(100)
- Study on Apoptosis of Onion Induced by Potassium Ion ZHAO Jinhui, GU Hongmei(103)
- Study on Influence Factors of Embryo Culture of *Prunus armeniaca* LIU Xiaoguang, LI Hedan(106)

◆ Plant Protection ◆

- Resistance Evaluation of Different Tomato Varieties Against Tomato Yellow Leaf Curl Virus Disease in Greenhouse in Autumn
..... MAO Liang, LI Haifeng, PAN Weiping, et al(109)
- Effect of Different Cultivation Conditions on Occurrence of *Plasmopara viticola* in Grape JING Dapeng, WEN Xiaolei, LI Xinying, et al(112)
- Laboratory Toxicity Determination of Different Insecticides on *Bradysia odoriphaga* ZHOU Chao, ZHANG Tiantian, LIANG Chao, et al(115)
- Occurrence and Pathogen Identification of Continuous Cultivation Eggplant Root-knot Nematode Disease in Greenhouse
..... JIN Feng, WANG Hui, WU Ya, et al(117)

◆ Storage and Processing ◆

- Effect of Nitric Oxide on Antioxidant Enzymes of 'Dawuxing' Loquat During Storage REN Yanfang, HE Junyu, LIU Dong, et al(121)
- Effect of Compound Preservative Treatment on Fresh-keeping and Inhibit Browning of Lijiang Snow Peach During Storage WANG Shihua(125)
- Effect of Different Temperatures on Storability of *Prunus americana* ZHANG Lixin, CHEN Jia, FENG Zhihong(129)

◆ Edible Fungi ◆

- Integrated Control Technique to Disease and Insect Pest in *Pleurotus ostreatus* Cultivated by Grass LUO Hailing, SU Dewei, LI Hui, et al(132)
- Comparison of Mulberry Sawdust and Wood Sawdust on Quality of *Lentinula edodes* XU Jianjun, LI Bao, SUN Chuanqi, et al(134)

◆ Chinese Traditional Medicine ◆

- Study on Cutting Propagation of Wild *Thymus quinquecostatus* in Changbai Mt. Area JIN Yinghua, AHN Younghee, QUAN Xueli, et al(138)
- Study on Genetic Parameters of Main Quantitative Characters and Correlation Among Traits of *Platycodon grandiflorum*
..... YU Ying, OUYANG Yanfei, XING Liwei, et al(141)
- Diversity of Endophytic Fungi From Tubers of *Rehmannia glutinosa* Libosch ZHU Yunhao, DU Zhenhui, DONG Chengming, et al(145)

◆ New Variety Breeding ◆

- Comparative Experiment of *Pennisetum alopecuroides* New Strain 'LS1' WANG Lihong, LI Huibin, LOU Shijie, et al(149)
- Breeding of a New Tomato F₁ Hybrid-'Dongnong 725' ZHANG Lei, JIANG Jingbin, WANG Qiang, et al(153)
- The Variety Breeding of a Fine Wild Flower, *Chirita eburnea* Hance HU Xiaosan, TANG Xinlin(155)

◆ Soil and Fertilizer ◆

- Spatial Variability Analysis on Total Salt Content and pH Value of Soil on Gravel-mulched Land in Ningxia
..... PAN Jiaying, WANG Jianyu, WANG Chao(157)
- Effect of Sand Burial Conditions and Water Conditions on Soil Seed Bank Under Closing Measures in Mountainous Region of North Hebei
..... CHEN Ying, ZHU Kai, LIU Lin, et al(163)
- Effect of Different Seed Coating Formulation on the Growth and the Rhizosphere Soil Micro Ecology of Chinese Cabbage
..... CHEN Peng, WANG Juan, DING Fangli, et al(169)

◆ Industry Forum ◆

- Status Analysis and Key Technology of High Efficiency of Apple Industry in China LI Chenghui, LIU Zhi, WANG Hong, et al(174)
- Research on the Present Situation Problems and Development Strategy of Celery Industry in Xiji County of Ningxia
..... SA Jindong, WANG Lin, GUO Zhiqian(178)

◆ Summarize ◆

- Molecular Mechanism of Cytoplasmic Male Sterility in *Allium cepa* L. ZHOU Tingting, FU Yali, REN Hongjie, et al(183)
- Research Progress on *Allium* Allelopathy YANG Yang, HE Shiguo(189)
- Research Progress of Exogenous Substances on Horticultural Crops Resistance GU Duanyin, WANG Xiufeng, YANG Fengjuan, et al(195)
- Research Status of Viral Disease in Peach and Detection Technology DONG Xiaomin, ZHANG Yi, LIU Wei, et al(199)

◆ Agricultural Relevant Issues ◆

- Research of Rural Human Capital, Labor Transfer and Economic Growth Based on the Threshold Model LONG Hui, HU Zhigao, GONG Xingwen(204)

《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3期(2月上), 总第354期

NORTHERN HORTICULTURE

(Half Monthly, Started in 1977)

No.3, 2016 (The First Half of February), Total No. 354

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

