

北方园艺

Northern Horticulture

总第 221 期

2010 年第 14 期(7 月下)

1977 年创刊

◆半月刊◆ 2010 年第 14 期(7 月下)

总第 221 期

CONTENTS

【试验研究】

不同遮荫度对观赏辣椒苗期形态和生理生化指标的影响

..... 许红娟, 巩振辉, 贾志银, 等(1)

钾素营养对高寒区白萝卜养分吸收及产量的影响

..... 赵光辉, 张立峰, 左启华, 等(5)

有机胡萝卜风味品质分析..... 唐晓伟, 何洪巨, 宋曙辉, 等(9)

沼肥施用方式对红枣产量与品质的影响

..... 柴仲平, 王雪梅, 孙霞, 等(13)

不同时期套袋对黄金梨和丰水梨果实品质的影响..... 张振铭, 胡化广(16)

不同药剂处理对早紫葡萄无核和果实主要品质的影响

..... 刘会宁, 付明星(20)

钙镁肥配施对苹果树叶片和果实营养元素含量及病果率影响

..... 王春枝, 安宁, 许大志, 等(23)

五种微生物发酵剂对玉米芯的发酵效果... 于艳辉, 程智慧, 张庆春, 等(27)

碱胁迫对蚕豆幼苗叶片质膜和光合性能的影响..... 刘霞(31)

壳聚糖辅助下火炬树修复铅污染土壤潜力及其生长

..... 陆秀君, 刁诚轩, 邹永田, 等(34)

【研究简报】

初夏追肥对渭北地区嘎拉苹果树体营养生长和果实品质的影响

..... 王玉珏, 樊金拴(39)

沙棘改良威海海岸沙质土壤效力的研究... 吴真真, 郑凤英, 杨慧, 等(41)

激素、环剥和拧枝处理对巨峰葡萄大小粒的防治效果

..... 卢伟红, 邓明净, 孙惠民, 等(44)

蓝莓栽培中土壤改良的方法及作用..... 和阳, 杨巍, 刘双, 等(46)

主管单位

黑龙江省农业科学院

主办单位

黑龙江省园艺学会

黑龙江省农业科学院

编辑出版中心

编辑出版

《北方园艺》编辑部

编辑出版中心

主 任 毕洪文

副 任 苗玉新 黄峰华

主 编 毕洪文

责任编辑 贾枕萍 黄峰华

编 辑 刘 博 曲红云

李晓晨 王 雪

王红蕾

美术编辑 许 真

广告发行 白晓琳 李佩英

地 址 哈尔滨市南岗区

学府路 368 号

邮 编 150086

电 话 0451-86674276

电子信箱 bfybjb@163.com

印 刷 哈尔滨博奇彩色印刷有限公司

国内发行 哈尔滨市邮局

邮发代号 14-150

订 阅 全国各地邮局

国外发行 中国国际图书贸易总公司

(北京 399 信箱)

国外代号 M 5011

ISSN 1001-0009

中国标准连续出版号 CN 23-1247/S

广告经营许可证号 2301070000009

出版日期 每月 15、30 日

定 价 6 元

目次

生物活性水对番茄种子萌发及幼苗生长的影响	亢福仁,朱铭强,冯光慧,等(49)
钾与钙和硅混合喷施对番茄抗逆性物质含量的影响	代兆辉,杜相革(51)
模拟酸雨对茄子幼苗生长及生理的影响	邱芳,杨艳,钟杨,等(53)
北京地区春夏小白菜播种期与品种筛选试验	陈春秀,武丹,王宝驹,等(55)
不同品种油豆角生物学特性和贮藏性的比较研究	袁成志,高美玲,冯泉(58)
信阳毛尖茶园不同覆盖措施对空气湿度和光照强度及风速的影响	朱庆松,刘松虎,赵海英(60)
商陆中挥发油的提取及其化学成分分析	刘瑞娟,段静,赵国栋,等(63)

【设施园艺】

陕西关中早春温室厚皮甜瓜壮苗培育技术	刘小宁,王宽祥(65)
太阳能土壤消毒在草莓保护地栽培中的应用效果	张利英,李贺年,翟姗姗,等(67)
新疆伊犁日光温室玫瑰花栽培技术	陈祥,陆平,梁巧玲(69)
温室顶窗开窗形式对流量系数取值的影响	宫彬彬,周智,李敬蕊(71)

【栽培技术】

☆果 园☆

食仁杏薄壳1号品种在牡丹江地区的引种栽培	曹振岭,刘传奇,刘冬冬,等(75)
果树栽培技术及抗旱技术	王广江(77)
盆栽苹果快速生产技术	刘振彬(78)
苹果大树移植技术	岳彦桥,张晓玲,刘琳,等(80)
吉林松原地区酿酒葡萄栽培生态条件分析	黄式琳,温雪飞,王猛(83)

☆瓜 园☆

河西地区杂交西瓜制种技术	武兴宝,崔兴林(81)
--------------------	-------------

☆菜 园☆

高寒地区一年三茬套种高效栽培技术	齐征宇,翟西君(84)
西红柿新品种“印帝安”无土栽培技术	帕尔哈提,赛里古丽(85)

【园林花卉】

☆植 物☆

蔗糖和聚乙二醇浓度对金盏花花粉萌发的影响	赵永平,朱亚,张肖凌,等(86)
----------------------------	------------------

污泥对矮牵牛的应用效果 史红文,丁昭全,刘 勇(88)

梯度变化光照下新铁炮百合开花的研究 刘 伟,刘久东,周厚高(90)

东方百合和麝香百合的快速繁殖技术研究 陈丽静,张晓光,马 爽,等(92)

塑料风障对白玉兰冬季生理特性影响的研究 李焕忠,张吉立(97)

水湿处理对盐桦苗木光合特性的影响 李 宏,王 彬(100)

黑松抗氧化酶系统对海水胁迫的响应 姜海明 (103)

紫叶稠李嫩枝扦插繁殖研究 刘小菊,张 冰,张馨月(105)

昆崙山髌料植物资源调查 刘丽丽,王立宁,王璐思,等(107)

基于灰色系统理论的天彭牡丹品种综合评价 刘光立,陈其兵,曹 洋,等(109)

☆景观☆

北方康复性园林绿地植物配植研究 王 崑,张金丽,王 超(113)

对环境友好型小区景观设计的几点思考 杜 方(118)

植物与营造花境景观意境的关系 吴 越,杨 华,车代弟(121)

浅谈西方现代景观设计的主要倾向 刘红秀,霍艳虹(125)

【生物技术】

大肠杆菌高效感受态细胞的制备及快捷转化体系的建立 杨 坤,巩振辉,李大伟(127)

花粉管通道法在番茄转基因上的应用 陈冬朋,于丽杰(131)

甜樱桃砧木高倍快繁技术研究 周 逊,徐晓舒,陈莉敏 (136)

紫花醉鱼木茎段离体快繁技术 范玉芹(138)

白首乌愈伤组织的诱导与增殖 徐 飞,于元杰(140)

农杆菌蘸花法侵染拟南芥的研究 许红梅,张立军,刘 淳(143)

甘蔗幼叶组织培养中培养基的优化 杨 庆(146)

【植物保护】

黄瓜白粉病菌生防菌筛选及生防机制初步研究 范瑛阁,龚明福,朱丽霞 (150)

烟草生物碱对菜青虫的生物活性研究 樊 平,李志刚,王世仙,等(153)

几种杀线虫剂对番茄根结线虫的田间药效试验 刘晓芸,王彩芬,臧少先,等(156)

坝上高寒区大白菜常见病害及防治措施 窦铁岭(158)

大通湖区香樟黄化病发生原因及解决途径 曾朝晖(160)

不同药剂对黄秋葵棉蚜药效试验 范文忠,赵文若,赵宏辉(162)

70%代森联 DF 对桃褐腐病防治效果 陈春利,王绍敏(164)

不同脐橙生理病害对叶片矿质元素含量及营养物质代谢的影响 徐 华,戴小华,杨 耘,等(166)

柑橘褐斑病的病原分离和药物筛选 张玉洁,杨续旺,张志信,等(169)

【贮藏保鲜加工】

猕猴桃果实采后保鲜技术 兰 霞,贺立静,贺立红,等(172)

1-MCP 对大果水晶梨冷藏效果的影响 迟君德,王 然,杨绍兰,等(174)

丁香抑菌提取物对甜椒贮藏的影响 柴梦颖,石明生,焦 镞(177)

生长调节剂对芍药切花瓶插期渗透调节物质的影响 郭绍霞(179)

【食 用 菌】

双孢菇漆酶酶学性质及染料脱色初探 刘新颖,朱启忠,赵春媛,等(182)

白灵菇高产稳产栽培技术研究 张连合,王随心(184)

【中 草 药】

桂西北野生灵芝和人工栽培灵芝多糖含量比较 叶美凤,覃勇荣,刘旭辉,等(186)

虫草人工控制液体培养生态因子研究 尚子焕(189)

陕西秦巴山区金荞麦资源调查 吴振海,罗小华,陈 西,等(192)

老参地土壤改良及人参栽培技术 许永华,金 慧,庞立杰,等(195)

不同栽培架势对五味子产量及枝条生长势的影响 张庆田,艾 军,王振兴,等(197)

【专题综述】

青花椒的分类地位及成分研究现状 张 华,叶 萌(199)

苦苣苔科植物传粉生物学研究进展 谭 英,唐安军,龙春林(203)

微生物除草剂研究现状与展望 杨恒友,张 剑,刘 杰(208)

味喃丹特性及生物降解研究进展 杜秋红,赵国宇,李玉梅,等(210)

核桃遗传改良及种质评价的分子标记研究进展 刘 岩,辛培尧,许玉兰,等(213)

【产业论坛】

黑龙江省黑木耳菌种生产现状及发展对策 马云桥,张介弛(218)

产业化经营是提升嘉兴市食用菌产业的必由之路 范建奇,张建锋,张俐勤,等(220)

【经验交流】

湘北地区辣椒无公害栽培技术集成 柳弟贵,许 玻,钟国勋(224)

酒泉地区大白菜优质高产制种技术 黄 凯,李 军(227)

【农业经纬】

农业资源综合开发在新农村建设中的作用 谢立峰(229)

农业电视栏目的分类及定位 董擎辉(231)

Northern Horticulture

Main Contents

Experimentation and Research

- Effect of Different Shade Levels on the Morphology and Physiological and Biochemical Indexes During Seedling Stage in Ornamental Pepper XU Hong-juan, GONG Zheng-hui, JIA Zhi-yin, et al(1)
- Effect of Potassium on Biomass and Nutrient Absorption of Radish in the Northwest Plateau of Hebei Province ZHAO Guang-hui, ZHANG Li-feng, ZUO Qi-hua, et al(5)
- Analysis of Aroma Components and Flavor Sensory in Organic Carrots TANG Xiao-wei, HE Hong-ju, SONG Shu-hui, et al(9)
- Influence on Yield and Fruit Quality of *Zizyphus Jujube* under Different Application Ways of Biogas Waste Fertilizer CHAI Zhong-ping, WANG Xue-mei, SUN Xia, et al(13)
- Effects of Different Times of Bagging on Fruit Quality of Huangjin and Fengshui Pear Cultivars ZHANG Zhen-ming, HU Hua-guang(16)
- The Effect of Different Medicament Treatments on Seedlessness and Fruit Major Quality of 'Zaozi' Grape LIU Hui-ning, FU Ming-xing(20)
- The Effect of Different Calcium and Magnesium Fertilizer Treatment on Apple Fruit Nutrient Content and Rate of Disease WANG Chun-zhi, AN Ning, XU Da-zhi, et al(23)
- Effects of Five Microbial Agents on Fermentation of Corn Cob in Composting YU Yan-hui, CHENG Zhi-hui, ZHANG Qing-chun, et al(27)
- Effect of Alkaline Stress on the Plasma Membrane and Photosynthetic Characteristics in *Vicia faba* L. Seedlings LIU Xia(31)
- The Potential of *Rhus typhina* for Phytoremediation of Pb-Contaminated Soils and the Growth with the Aid of Chitosan Addition LU Xiu-jun, DIAO Cheng-xuan, ZOU Yong-tian, et al(34)

Research Notes

- The Effects of Fertilizer Application at Early Summer on Growth and Quality of Gala Apple in Weibei Region WANG Yu-jue, FAN Jin-shuan(39)
- Improving Effectiveness of Seabuckthorn on Coastal Sandy Soil in Weihai WU Zhen-zhen, ZHENG Feng-ying, YANG Hui, et al(41)
- Effects of Exogenous Hormone Application, Girdling and Twisting Shoot Treatment on Fruit Size Uniformity of Kyoho Grape LU Wei-hong, DENG Ming-jing, SUN Hui-min, et al(44)
- Method and Function of Soil Improvement in Blueberry Culture HE Yang, YANG Wei, LIU Shuang, et al(46)
- Effect of Bioactive Water on Seed Germination and Seedling Growth of Tomato KANG Fu-ren, ZHU Ming-qiang, FENG Guang-hui, et al(49)
- Effect of K and Ca and Si Nutrition on the Content of Defense-related Materials in Tomato DAI Zhao-hui, DU Xiang-ge(51)
- Effect on Growth and Physiological Changes of Eggplant Seedlings Under Stress of Simulated Acid Rain QIU Fang, YANG Yan, ZHONG Yang, et al(53)
- Test of Screening for Seeding Time and Variety of Cabbage in Spring and Summer in Beijing CHEN Chun-xiu, WU Dan, WANG Bao-ju, et al(55)
- Comparative Study on the Biological Characteristics and Storability of Snap Beans YUAN Cheng-zhi, GAO Mei-ling, FENG Quan(58)
- Effects of Different Mulching Measures on the Moisture of Air, Light Intensity, Wind Speed in the Tea Garden of Xinyang ZHU Qing-song, LIU Song-hu, ZHAO Hai-ying(60)
- Analysis of Chemical Constituents and Distill of Volatile Oil from *Phytolacca acinosa* Roxb. LIU Rui-juan, DUAN Jing, ZHAO Guo-dong, et al(63)

Facilities Horticulture

- Effects of Solar Soil Disinfection Technology on Strawberry Protected Planting ZHANG Li-ying, LI He-nian, ZHAI Shan-shan, et al(67)
- Effect of Greenhouse Transom Windows Opening forms on the Value of the Flow Coefficient GONG Bin-bin, ZHAI Zhi, LI Jing-rui(71)

Garden Design and Garden Plants

- Effects of Sucrose and Polyethylene Glycol Concentration on Pollen Germination in Marigold ZHAO Yong-ping, ZHU Ya, ZHANG Xiao-ling, et al(86)
- Effects of Application of Sewage Sludge on *Petunia hybrida* SHI Hong-wen, DING Zhao-quan, LIU Yong(88)
- Study on Flowering of *Lilium formolongi* Under Gradient Illumination Time LIU Wei, LIU Jiu-dong, ZHOU Hou-gao(90)
- Study on the Rapid Propagation of *Lilium orientalis* and *Lilium longifolium* CHEN Li-jing, ZHANG Xiao-guang, MA Shuang, et al(92)
- Study on Physiological Characteristics of *Magnolia demodata* by Plastic Wind Barrier in Winter LI Huan-zhong, ZHANG Ji-li(97)
- Photosynthetic Characteristics of *Betula halophila* Trees Under Waterlogging LI Hong, WANG Bin(100)
- Response of Antioxidative Enzymes of *Pinus thunbergii* Parl to Seawater Stress JIANG Hai-ming(103)
- The Experiment on *Prunus Virginiana* Green Branch Cutting LIU Xiao-ju, ZHANG Bin, ZHANG Xin-yue(105)
- Resources Indagat of Tannic Plants in Kunyu Mountain LIU Li-li, WANG Li-ning, WANG Lu-si, et al(107)

Responsible Institution

Heilongjiang Academy of Agricultural Sciences

Sponsored by

Horticultural Institute of Heilongjiang

Heilongjiang Academy of Agricultural Sciences

Edited & Published by

Literatorial Department of NORTHERN HORTICULTURE

Editing and Publishing Center

Director BI Hong-wen

Vice-director MIAO Yu-xin HUANG Feng-hua

Address

368 Xuefu Road, Nangang District, Harbin, 150086, China

Tel 0451-86674276

Comprehensive Evaluation of Tianpeng Tree Peony Cultivar Resources Based on Grey System Theory

- LIU Guang-li, CHEN Qi-bing, CAO Yang, et al (109)
The Application Research of Plants in the North Healing Landscape WANG Kun, ZHANG Jin-li, WANG Chao (113)
Considerations on the Landscape Construction of Environmentally Friendly Community DU Fang (118)
The Relationship between Plants and Create Artistic Conception of Flower Border WU Yue, YANG Hua, CHE Dai-di (121)
Discussion of Main Trends in Western Modern Landscape Design LIU Hong-xiu, HUO Yan-hong (125)

Biotechnology

- The Preparation of Super *E. coli* Competent Cell and the Establishment of Fast Plasmid Transformation into *E. coli*
..... YANG Kun, GONG Zhen-hui, LI Da-wei (127)
Establishment of Tomato Transformation Technique Via the Pollen tube Pathway Method
..... CHEN Dong-peng, YU Li-jie (131)
Study on Tissue Culture and Rapid High Rate Propagation of Sweet Cherry Rootstock ZHOU Xun, XU Xiao-shu, CHEN Li-min (136)
Induction and Proliferation of *Cynanchum auriculatum* XU Fei, YU Yuan-jie (140)
Study of Infection *Arabidopsis thaliana* by *Agrobacterium* Dipping Flower Method XU Hong-mei, ZHANG Li-jun, LIU Chun (143)
Medium Optimization on Tissue Culture with Young Leaf of Sugarcane YANG Qing (146)

Plant Protection

- Screening and Preliminary Study of Biocontrol Mechanism on Biocontrol Agents Against Cucumber Powdery Mildew
..... FAN Ying-ge, GONG Ming-fu, ZHU Li-xia (150)
Study of Bioactivities of Alkaloid of *Nicotiana glauca* to *Pieris rapae* FAN Ping, LI Zhi-gang, WANG Shi-xian, et al (153)
Control Effect of Several Nematocides on Root Knot Nematode of Tomato LIU Xiao-yun, WANG Cai-fen, ZANG Shao-xian, et al (156)
Causes and Solution of *Cinnamomum camphora* Yellows in the Datonghu Area ZENG Chao-hui (160)
Toxicological Determination and Test of Different Kinds of Insecticides on *Aphis gossypii* Glover
..... FAN Wen-zhong, ZHAO Wen-ruo, ZHAO Hong-hui (162)
Control Effect of Metiram 70% DF on Peach Brown Rot CHEN Chun-li, WANG Shao-min (164)
The Effects of Different Physiological Diseases of Navel Orange on Mineral Element Contents and Nutrient Metabolism in Leaves
..... XU Hua, DAI Xiao-hua, YANG Yun, et al (166)
Isolation of Citrus Black Patch Pathogen and Comparison of the Sensitivities to Eleven Kind Fungicides
..... ZHANG Yu-jie, YANG Xu-wang, ZHANG Zhi-xin, et al (169)

Storage and Processing

- Postharvest Preservation Technology of Kiwifruit LAN Xia, HE Li-jing, HE Li-hong, et al (172)
Effects of 1-MCP Treatment on Cool Storage of 'Suisho' Pears CHI Jun-de, WANG Ran, YANG Shao-lan, et al (174)
Effects of Antibacterial Extract from Clove on Pepper Storage CHAI Meng-ying, SHI Ming-sheng, JIAO Lei (177)
Effects of Growth Regulator on Osmolytes of Cut Peony Flowers during Vase-holding GUO Shao-xia (179)

Edible Fungi

- Studies on Characters of Laccase from *Agaricus bisporus* and Ability to Degrade Dyes LIU Xin-ying, ZHU Qi-zhong, ZHAO Chun-yuan, et al (182)
Study on the Points of Pleurotus Nebrodensis with High Stable Yield Cultivation Technology ZHANG Lian-he, WANG Sui-xin (184)

Chinese Traditional Medicine

- Comparative Analysis of *Ganoderma lucidum* Polysaccharide Content in Several Wild and Artificial Cultivation *Ganoderma lucidum* Collected from Northwest of Guangxi YE Mei-feng, QIN Yong-rong, LIU Xu-hui, et al (186)
Study of Ecological Factors on Submerged Under Manual Control Culture for *Cordyceps sinensis* SHANG Zi-huan (189)
Investigation of Resources of *Fagopyrum dibotrys* from Qinling-bashan Mountains in Shaanxi WU Zhen-hai, LUO Xiao-hua, CHEN Xi, et al (192)
Improvement of Soil Harvested Ginseng and Cultivation Ginseng Technique XU Yong-hua, JIN Hui, PANG Li-jie, et al (195)
Effect of Different Cultivation Posture on Yield and Branch Growth of *Schisandra chinensis* ZHANG Qing-tian, AI Jun, WANG Zhen-xing, et al (197)

Summarize

- Research Status on the Taxonomic and Component of Green *Zanthoxylum bungeanum* Maxim ZHANG Hua, YE Meng (199)
Study Advance on Pollination Biology of Gesneriaceae TAN Ying, TANG An-jun, LONG Chun-lin (203)
Research Status and Prospect of Biopesticide YANG Heng-you, ZHANG Jian, LIU Jie (208)
Current Progress of Molecular Markers on Genetic Improved and Germplasm Evaluation of Walnut LIU Yan, XIN Pei-yao, XU Yu-lan, et al (213)

Editor-in-chief BI Hong-wen

Chief Editor JIA Dan-ping HUANG Feng-hua

Editor LIU Bo QU Hong-yun

LI Xiao-chen WANG Xue

WANG Hong-lei

Artistic Editor XU Zhen

Advertising BAI Xiao-lin LI Pei-ying

E-mail bfybjb@163.com

Printed by

Harbin Boqi Colour Printing Company Limited

Domestic Distributed by

Harbin Post Office

Oversea Distributed by

China International Book Trading Corporation (P.O.Box 399)

Publishing Date Monthly 15th, 30th

Price 6 Yuan