

北方园艺

(1977年创刊·半月刊)

BEI FANG YUAN YI

总第 242 期 2011 年第 11 期 6 月(上)

目 次

◆ 试验研究 ◆

- 苗期夜间低温对番茄叶片气孔开张度日变化及叶片超微结构的影响..... 王丽娟,李天来,马 刚,等(1)
- 无损测技术在番茄营养诊断中的应用研究 武新岩,郭建华,张毅功,等(4)
- 不同施肥方式对蔬菜富集铅特性的影响 赵海香,袁 丁,贾艳霞,等(8)
- 山葡萄种质资源原花青素分布及其含量动态变化..... 王新伟,秦红艳,赵 滢,等(12)
- GA₃ 对葡萄果实淀粉积累及代谢相关酶活性的影响..... 李鹏程,李 铭,郁松林,等(17)

◆ 研究简报 ◆

- 杜梨种子休眠与萌发过程中酶活性变化 李军霞,吴翠云(21)
- 植物生长调节剂对金星无核葡萄膨大及果实品质的影响 刘 佳,刘 晓,陈 建(25)
- 酿造冰红山葡萄酒新品种北冰红及定向栽培技术应用与推广 宋润刚,郭镇贵,包国忠,等(28)
- 水分处理对本溪山樱生物量的影响 杨凤英,吕德国,关海春(32)
- NaCl 和 NaHCO₃ 胁迫对番茄种子发芽及芽苗生长的影响 吴桂臣,叶景学,沈恩超(34)
- 不同施氮量对番茄品质的影响 孙世卫,高雪艳,芦站根(36)
- 西宁地区番茄品种筛选试验 王惠霞,苗增健(38)
- 复绿铃在温室草莓上的应用研究 杨秀玲(40)
- 辣椒籽吸附油脂和胆固醇的研究 黄凯丰,时 政,饶庆琳,等(42)

◆设施园艺◆

- 不同整形修剪方式对温室油桃光强分布及产量和品质的影响 牛军强,马明,尹晓宁,等(44)
- 不同灌水量对日光温室番茄产量、品质和水分利用效率的影响 郑国保,孔德杰,张源沛,等(47)
- 设施秋延番茄高效栽培技术 李敏侠,刘水平,陈永顺,等(49)
- 嫁接对寒地棚室茄子根际土壤微生物的影响 张军民(51)
- 黄河上游地区节水减氮对设施越冬芹菜生长发育及产量的影响 张丽娟,曲继松,杨冬艳,等(53)
- 银川地区日光温室切花康乃馨种植管理技术 胡海英(56)

◆栽培技术◆

☆果园☆

- 新疆北疆地区红地球葡萄留树保鲜技术 王山虎,高俊萍(58)
- 文冠果林学特性及育苗技术 吴玉洲,赵继英,张国辉(61)

☆菜园☆

- 适于西宁地区栽培的胡萝卜品比试验 李启凤(63)
- 四色韭黄的栽培技术 朱学文(64)

◆园林花卉◆

☆植物☆

- 中国石蒜生长特性及高量施肥研究 鲍淳松,张海珍,江燕,等(66)
- 赤霉素对切花菊‘优香’发育及外观品质的影响 于春雷,张晓波(69)
- 辽宁省百合属植物物候期观察 李敬,孙伟,贾春天(72)
- 云南野生花卉田埂报春的栽培与应用 赵明方,耿开友,陈武荣,等(75)
- 杂种马褂木在杨凌地区的适生性研究 韩东锋(76)
- 海南苦苣苔科野生植物资源及其观赏特性评价 史佑海,徐世松,黄觉武(79)

☆景观☆

- 南京地区寺庙园林植物景观空间研究 叶海跃,汤庚国(83)
- 银中杨扦插育苗技术 张迅甫,赵常海(87)
- 古典皇家园林庭院空间艺术及植物配置分析 朱利峰,赵丹苹(88)
- 低碳时代城市景观设计探讨 张蕊,宫春亭,许先升(91)
- 中国湿地博物馆湿地景观展示特色分析 缪丽华,蔡宙霏(95)

地被植物在佳木斯城市绿化中的应用 郑长艳,周克强,宫绍斌(98)

◆生物技术◆

双价抗病虫基因植物表达载体 Lc-ChiA-pBI121 的构建 田强强,徐利,谭黎霞,等(101)

生长素对杜仲愈伤组织诱导及增殖的影响 袁云香(104)

毛棉杜鹃嫩枝扦插繁殖研究 熊友华,吴志,王定跃,等(106)

枣树植原体快速 PCR 检测体系研究 高静涛,牛建新,王雪莲,等(109)

十二个油松种群遗传多样性的 RAPD 分析 赵飞,樊军锋,杨培华,等(112)

盐胁迫对黄瓜愈伤组织生理指标的影响 殷兆晴(117)

◆植物保护◆

石硫合剂防治草莓红蜘蛛药效试验 马丽,曹雯梅,袁水霞,等(120)

新疆伊犁薄荷病虫害综合防治 王佳武,王朴,唐永清(122)

静电喷雾器与常规机动喷雾器在冬枣上药液附着率的比较研究 巴秀成,张路生,王小梦,等(124)

甘蓝霜霉病内生拮抗细菌的筛选鉴定及防效研究 郭继平(126)

几种植物源农药防治茶树主要害虫的药效 周顺玉,尹健,马俊义(128)

◆贮藏保鲜加工◆

贮藏期菊芋块茎碳水化合物含量变化动态研究 孙雪梅,王丽慧,钟启文(131)

春桃柿子在果蔬蓄冷剂储藏中的生理变化 高凯,董爱平,朱志强,等(135)

不同采收期对“甬优”葡萄保鲜效果的影响 凌建刚,朱麟,张平,等(137)

不同贮藏条件对五味子鲜果多酚氧化酶活性变化规律的影响 张宝香,王英平,艾军,等(140)

山楂银耳复合保健饮料的研制 崔东波(142)

不同保鲜剂对切花洋桔梗保鲜作用的研究 章志红,孙天舒,吴帅,等(145)

不同保鲜剂对紫萼切花保鲜效果的影响 刘丽,刘光立,丁旭(148)

1-甲基环丙烯对沂州木瓜果实贮藏品质的影响 高怀春(151)

◆土壤与肥料◆

哈尔滨市常见绿化树种对土壤重金属污染的修复效应 王春光,张思冲,任伟,等(153)

设施土壤盐渍化调查与防治措施的研究 黄凌云,张勇勇,王润屹(157)

◆ 食 用 菌 ◆

食用菌链孢霉病绿色化学防治研究 邢路军,段学君,连红香,等(159)

北朝鲜美味冬菇野生菌株培养特性的研究 宋吉玲,姚方杰(162)

pH 和温度对攀枝花野生鸡枞菌 PXT-1 菌株生长的影响 熊 亚,李敏杰,周 君(164)

红托竹荪的研究进展 暴增海,周 婷,林曼曼(166)

不同培养基配方对真姬菇母种培养效果的影响 郝涤非(168)

◆ 中 草 药 ◆

亳芍药材适宜产区区划研究 魏志华,王新民,乔卿梅,等(170)

不同层积处理五味子种子种胚发育及可溶性糖含量变化 高玉刚,金永玲(173)

◆ 产 业 论 坛 ◆

廊坊市花卉产业发展现状与对策分析 胡江川,王一利,张鹏宇,等(175)

◆ 专 题 综 述 ◆

红树莓中酚类化合物研究进展 王海明,刘树英,刘洪章(180)

蔬菜硝酸盐研究概况和展望 郭静利,张洁瑕(183)

花境植物造景的研究进展 马 彦,董 然(189)

◆ 经 验 交 流 ◆

有机蔬菜生产中废弃物的三级利用技术研究 孙中志(193)

陕西渭北旱塬地区葡萄节水施肥与栽培技术研究 赵文杰,杨旭武,冯 星,等(197)

◆ 农 业 经 纬 ◆

生态型农业观光园规划设计 赵志刚,谢小立,陈安磊,等(199)

NORTHERN HORTICULTURE

(Started in 1977, Half Monthly)

Total NO. 242, NO. 11(2011), The First Half of June

Contents

◆Experimentation and Research◆

- Effects of Low Night Temperature on the Diurnal Changes of Stomatal Opening Extent and Ultrastructure of Tomato Leaves WANG Li-juan, LI Tian-lai, MA Gang, et al. (1)
- Application Research of Non-destructive Test Technology on Tomato Nutrition Diagnosis WU Xin-yan, GUO Jian-hua, ZHANG Yi-gong, et al. (4)
- Effect of Different Fertilizing Modes on the Content of Lead of Vegetable ZHAO Hai-xiang, YUAN Ding, JIA Yan-xia, et al. (8)
- The Distribution and Dynamic Changes of Procyanidin Contents in *Vitis amurensis* Germplasm Resources WANG Xin-wei, QIN Hong-yan, ZHAO Ying, et al. (12)
- Effects of GA₃ on the Amylopectin Accumulation and Related Enzyme Activities in Amylopectin Metabolism of Grape Fruits LI Peng-cheng, LI Ming, YU Song-lin, et al. (17)

◆Research Notes◆

- The Change of Enzyme Activity in the Dormancy and Germination Process of *Pyrus betulae folia* LI Jun-xia, WU Cui-yun (21)
- The Effect of Plant Growth Regulator Treatment on Enlargement and Berry Quality of Seedless Grape in Sichuan Area LIU jia, LIU Xiao, CHEN Jian (25)
- Directional Cultivation Technology Application and Promotion of Brewing Ice Red Wine Beibinghong SONG Run-gang, GUO Zhen-gui, BAO Guo-zhong, et al. (28)
- The Influence on Moisture Treatment of *C. sachalinensis* Seedling Biomass Parameters YANG Feng-ying, LV De-guo, GUAN Hai-chun (32)
- Effect of the NaCl and NaHCO₃ Stress on Germination Characteristic of the Tomato Seeds WU Gui-chen, YE Jing-xue, SHEN En-chao (34)
- Effects of Different Nitrogen Fertilization Levels on Quality of Tomato Cultivated in Solar Greenhouse SUN Shi-wei, GAO Xue-yan, LU Zhan-gen (36)
- Screening on Tomato Varieties in Xining WANG Hui-xia, MIAO Zeng-jian (38)
- Absorptive Properties of Pepper Seed for Fat and Cholesterol HUANG Kai-feng, SHI Zheng, RAO Qing-lin, et al. (42)

◆Facilities Horticulture◆

- Effects of Different Pruning Methods on the Light Distribution and Yield and Quality of Nectarine in Greenhouse NIU Jun-qiang, MA Ming, YIN Xiao-ning, et al. (44)
- The Effect of Irrigation Quantity on Yield and Quality and WUE of Tomato in Greenhouse ZHENG Guo-bao, KONG De-jie, ZHANG Yuan-pei, et al. (47)
- Effect of Grafting on Soil Rhizosphere Microorganisms of *Solanum melongena* L. in the Plastic Greenhouses in Cold Area ZHANG Jun-min (51)
- Influence on Growth and Yield of Celery by Water and Nitrogen Saving in Solar Greenhouse on the Upper Stream of the Yellow River in Winter ZHANG Li-juan, QU Ji-Song, YANG Dong-yan, et al. (53)

◆Cultivation Technique◆

- Keeping the Tree Maintaining Freshness Technology of Red Globe Grape in Xinjiang Northern Border Area WANG Shan-hu, GAO Jun-ping (58)

◆Garden Design and Garden Plants◆

- Growth Responses of *Lycoris chinensis* to High-application of Fertilizers BAO Chun-song, ZHANG Hai-zhen, JIANG Yan, et al. (66)
- Effects of Gibberellin on Development and External Quality of Cut Chrysanthemum "Youxiang" YU Chun-lei, ZHANG Xiao-bo (69)
- Observation of Phenological Period of *Lilium* L. in Liaoning Province LI Jing, SUN Wei, JIA Chun-tian (72)
- Research on the Adaptability of *Liriodendron chinense* × *L. tulipifera* in Yangling Area HAN Dong-feng (76)
- Germplasm Resources and Ornamental Character of the *Gesneriaceae* in Hainan SHI You-hai, XU Shi-song, HUANG Jue-wu (79)
- Research on Space Constructions of Temple Garden Plant Landscape in Nanjing Area YE Hai-yue, TANG Geng-guo (83)
- Analysis of Plants Landscape and Space Arts of Courtyard in Classical Royal Garden ZHU Li-feng, ZHAO Dan-ping (88)
- Urban Landscape Design of Low-carbon Era ZHANG Rui, GONG Chun-ting, XU Xian-sheng (91)
- Characteristics Analysis of the Wetland Landscape Exhibition in National Wetland Museum of China MIAO Li-hua, CAI Zhou-fei (95)

Application of Ground Covering Plants in Afforestation of Jiamusi ZHENG Chang-yan,ZHOU Ke-qiang,GONG Shao-bin(98)

◆Biotechnology◆

- Construction of Lc-ChiA-pBI121 Plant Expression Vector Containing Two Pest and Disease Resistant Genes TIAN Qiang-qiang,XU Li,TAN Li-xia,et al.(101)
- Influence of Concentration on Callus Induction and Proliferation of *Eucommia ulmoides* Olive YUAN Yun-xiang(104)
- Softwood Cutting Propagation of *Rhododendron moulmainsense* XIONG You-hua,WU Zhi,WANG Ding-yue,et al.(106)
- Study the Rapid PCR Detection System of Jujube Phytoplasma GAO Jing-tao,NIU Jian-xin,WANG Xue-lian,et al.(109)
- Analysis on Genetic Diversity of Twelve Populations in *Pinus tabulaeformis* Carr. by the Method of RAPD ZHAO Fei,FAN Jun-feng,YANG Pei-hua,et al.(112)
- Effect of Salt Stress on the Physiological Indices of Callus of Cucumber YIN Zhao-qing(117)

◆Plant Protection◆

- Control Effect of Lime Sulfur against Red-spider on Strawberry MA Li,CAO Wen-mei,YUAN Shui-xia,et al.(120)
- Isolation,Identification and Control Efficacy of Antagonistic Endophytic Bacteria Against Cabbage Downy Mildew GUO Ji-ping(126)
- Efficacy of Several Botanical Insecticides Against Main Pests in Tea Platation ZHOU Shun-yu,YIN Jian,MA Jun-yi(128)

◆Storage and Processing◆

- Study on Change of the Carbohydrates Content of *Jerusalem artichoke* During Storage SUN Xue-mei,WANG Li-hui,ZHONG Qi-wen(131)
- Changes of Physiology of 'Chuntao' Treated by Coolant of Vegetable and Fruit GAO Kai,DONG Ai-ping,ZHU Zhi-qiang,et al.(135)
- Effects of Fresh-keeping on 'Yongyou' Grapes of Different Harvest Stages During Storage LING Jian-gang,ZHU Lin,ZHANG Ping,et al.(137)
- Variation of PPO Activity of the Fresh Fruit of *Schisandra chinensis* in Different Storage Conditions ZHANG Bao-xiang,WANG Ying-ping,AI Jun,et al.(140)
- The Development of Compound Health Drink of *Hawthorn* and *Tremella fuciiformis* CUI Dong-bo(142)
- Effect of Different Preservatives on Preservation of Cut Flowers *Eustoma grandiflorum* ZHANG Zhi-hong,SUN Tian-shu ,WU Shuai,et al.(145)
- Effects of Different Preservatives on Wild *Hosta ventricosa*'s Cut Flower LIU Li,LIU Guang-li,DING Xu(148)
- Effect of 1-MCP on Quality of 'Yizhou' Papaya During Storage GAO Huai-chun(151)

◆Soil and Fertilizer◆

- Remediation Effect of Pollution of Heavy Metals in Soil by Common Afforestation Plants of Harbin WANG Chun-guang,ZHANG Si-chong,REN Wei,et al.(153)
- Research on Salinization of Facilities Soil and Control Measures HUANG Ling-yun,ZHANG Yong-yong,WANG Run-qi(157)

◆Edible Fungi◆

- Research of Green Chemical Prevention for *Neurospora crassa* Disease of Edible Fungi XING Lu-jun,DUAN Xue-jun,LIAN Hong-xiang,et al(159)
- Study of Cultivation Characteristic on Wild Strains of North Korea *Panellus edulis* SONG Ji-ling,YAO Fang-jie(162)
- Effect of pH Value and Temperature on Growth of Strain PXT-1 Isolated from Wild *Termitomyces albuminosus* in Panzhihua XIONG Ya,LI Min-jie,ZHOU Jun(164)
- Progress of Study on the *Dictyophora rubrovalvata* BAO Zeng-hai,ZHOU Ting,LIN Man-man(166)
- Effect of Different Medium Formula on Mother Culture of *Hypsizygus marmoreus* HAO Di-fei(168)

◆Chinese Traditional Medicine◆

- Study on the Region Division of *Paomia lactiflora* Pall in Adaptive Production Area in China ... WANG Xin-min,WEI Zhi-hua,QIAO Qing-mei,et al.(170)
- Change of Embryo Development and Soluble Sugar Content on the Different Stratification of *Schisandra chinensis* Baill. Seeds GAO Yu-gang,JIN Yong-ling(173)

◆Summarize◆

- Research Progress on the Phenolic Compounds in Red Raspberry WANG Hai-ming,LIU Shu-ying,LIU Hong-zhang(180)
- Review and Outlook of the Research on Nitrate Content of Vegetables GUO Jing-li,ZHANG Jie-xia(183)
- Advance of Researches on Flower Border in Planting Landscape MA Yan ,DONG Ran(189)

◆Experience Exchange◆

- Study on Water-Saving Fertilization and Cultivation Techniques for Grapes in Shaanxi Weibei Dryland ZHAO Wen-jie,YANG Xu-wu,FENG Xing,et al.(197)

◆Agricultural Relavant Issues◆

- The Planning and Design of Ecological Agriculture Tourism Yard ZHAO Zhi-gang,XIE Xiao-li,CHEN An-lei,et al.(199)