

北方园艺

(1977年创刊·半月刊)

BEI FANG YUAN YI

总第 232 期 2011 年第 1 期 1 月(上)

目 次

◆试验研究◆

- 梨树形改造与优化技术研究..... 赵德英,程存刚,曹玉芬,等(1)
- 负载量对宁夏设施草莓光合作用和果实品质的影响
..... 单守明,杨恕玲,王振平,等(5)
- 钼蓝比色法测定沙田柚果肉中还原型维生素 C 含量的研究 刘绍俊,牛 英,刘冰浩,等(8)
- 运用隶属函数综合评价七份番茄种质资源 马洪英,张远芳,张晓磊,等(13)
- 壳聚糖的木酢液对黄瓜生长与产量及品质的影响
..... 李玉奇,奥岩松(16)
- 水培条件下钾对大蒜幼苗生长及根系活力的影响 陈 昆,刘世琦,张自坤(20)

◆研究简报◆

- 适于出口的越冬菠菜品种比较试验 夏秀波,王全华,尹国香,等(24)
- 镧对西葫芦种子酸雨胁迫缓解的剂量效应 杨 洁,扬王慧,许 珂,等(26)
- 沼液对胡萝卜生长发育的影响研究 张亚莉,王俊杰,曹 北,等(29)
- 套袋对黄瓜产量和品质的影响及经济效益分析 侯田莹,王福东,郑淑芳(32)
- 番茄早疫病拮抗内生细菌的分离及防病作用..... 李永丽,周 洲,李 凡,等(35)
- 露地茄子老株剪枝对茄子品质的影响 李 焯,姚建刚,樊绍霖,等(37)
- 根际微生物对白菜种子萌发的影响 何铁柱,高小宽,郭继平(39)
- 中药植物营养胶对小白菜产量和品质的影响..... 张 倩,陈 可,姜 雯,等(41)

| | |
|--------------------------------|-------------------|
| 大葱部分种质资源数量性状的聚类分析 | 贾俊香,崔连伟,孙永生(44) |
| 微生物肥料及有机肥对菜心可食部分产量及品质的影响 | 靳亚忠,何淑平,廉 华,等(46) |
| 纤维寡聚酸对番茄种子萌发和幼苗生长的影响 | 刘卫萍,张志民,王士奎,等(49) |
| 山东昆崙山抗肿瘤药用植物资源调查 | 赵江贺,王韞哲,史 源(51) |
| 稀土对新嘎拉苹果品质的影响 | 张力飞,杨 洋(54) |
| 河南平顶山市涩柿品种资源的特征与分布 | 扈惠灵,周俊国,韩德波,等(56) |
| 几个油桃品种需冷量的研究 | 欧阳汝欣(59) |

◆设施园艺◆

| | |
|----------------------|-------------------|
| 玉树地区日光节能温室建设技术 | 李长帅(61) |
| 辽宁日光温室结构研究进展 | 白义奎,李天来,王铁良,等(62) |

◆园林花卉◆

☆植物☆

| | |
|----------------------------------|-------------------|
| 牡丹花的综合利用与开发前景 | 游玉明,杨 帆,熊运海(67) |
| 四种槭属植物叶的解剖学研究 | 李 平,张友民(70) |
| 补血草钻石花系列引种栽培技术研究 | 王娅丽,李永华,王 钰,等(73) |
| 紫穗槐花粉活力和柱头可授性研究 | 杜晓华,贾文庆,李跃霞(76) |
| 杨树速生丰产林品种对比试验 | 周 宏,刘宏山,东昌山,等(78) |
| 虎舌红种内花粉形态与活力的比较研究 | 杜 娟,邵慧敏,叶 萌(80) |
| 基于降雨量级和竹干胸径分析北亚热带毛竹林干流影响因素 | 张家洋,胡海波(84) |
| 三种百合花器官形态发育进程研究 | 徐丽萍,唐道城(86) |
| 盐胁迫对黑麦幼苗活力指数的影响 | 李继光,于 爽,肖 杰,等(89) |
| PEG 渗透胁迫对对开蕨生理特性影响 | 岳 桦,孙笑丛(91) |
| 浅谈油松大苗移植技术 | 赵国亮(95) |
| 利文斯顿雏菊育性初探 | 刘亚婷,牛立新(96) |

☆景观☆

| | |
|----------------------------|------------------|
| 郑州市观花观果地被植物应用状况调查与评价 | 袁同印,杨芳绒,樊伟娜(99) |
| 观赏茄果类蔬菜在家庭园艺中的应用 | 金翡翠,符庆功,朱祝军(105) |
| 万方数据 | |

| | |
|----------------------------|--------------------|
| 黑龙江五大连池风景区主要植被类型特征 | 沈海滨,王小德,董立军(108) |
| 第七届北京花博会室外展园植物景观分析 | 李轶群,杨秀珍,任利超(112) |
| 齐齐哈尔市乡土树种在园林景观中的应用研究 | 梁 艳,杨晓杰,刘 敏,等(116) |
| 论观赏蔬菜及其在城市绿化中的应用 | 桑景拴,路买林(119) |

◆ 生物技术 ◆

| | |
|--|--------------------|
| 正交设计优化莲藕 ISSR-PCR 反应体系研究 | 李长春,阳天泉,戴余军,等(121) |
| 根癌农杆菌介导马齿苋愈伤组织遗传转化研究 | 王红艳,王鸿磊,黄群策(124) |
| 白菜型油菜高效离体再生体系的建立 | 裴冬丽(127) |
| 杂交兰种间及杂交后代同工酶活性和蛋白质电泳测定与分析 | 朱庆松,张景华,王广东,等(129) |
| 野生茅莓快繁体系的初步建立 | 张启春,韩 翔,赵 阳,等(133) |
| 树莓果实总 RNA 提取方法的比较研究 | 刘 丹,高庆玉,张丙秀,等(136) |
| 蓝果树茎段组织培养和快速繁殖 | 王春荣,毕 君,曹书敏(139) |
| 大叶胡颓子叶抑菌作用的研究 | 刘建萍,由宝昌,荆亚铃,等(144) |
| 拮抗酵母菌 0732-1 的鉴定及其 ITS-5, 8S rDNA 序列分析 | 王晓东,李国庆,张 莉,等(146) |
| 新铁炮百合离体培养的生理生化变化初探 | 陈丽静,孙春玉,马 慧,等(149) |
| 铁皮石斛组培苗耐盐性研究 | 李国树,徐成东,李天星,等(153) |
| 植物生长调节剂对黄精愈伤组织诱导的影响 | 杨玉红(156) |

◆ 植物保护 ◆

| | |
|--------------------------------|--------------------|
| 麻山药根腐病发生规律及其防治技术 | 贾海民,鹿秀云,陈 丹,等(159) |
| 草莓主要土传病害的发生及防治 | 孟凡娟,关发春,王 超,等(161) |
| 杀菌剂对番茄细菌性斑疹病菌的毒力测定 | 任建国,王俊丽,岳美云(163) |
| 芝麻内生细菌 G10 菌株对芝麻立枯病的生防作用 | 王俊芳,王 森,郭妍伟,等(166) |
| 美国白蛾的调查与防效试验 | 尹立红(168) |
| 黄花乌头根腐病菌的生物学特性研究 | 魏书琴(169) |
| 苹果腐烂病药剂对比试验 | 卜海东,刘延杰,张武杰,等(171) |
| 薄皮甜瓜几种主要虫害的防治 | 贾 健,杨兴福,杨兴安,等(173) |

◆土壤与肥料◆

- 中微量元素对辣椒养分吸收和产量的影响 王秀娟, 娄春荣, 解占军, 等(174)
果桑园土壤养分和盐分含量梯度分布探讨 宋家清, 刘艳亚, 王华征, 等(176)

◆贮藏保鲜加工◆

- 不同瓶插保鲜剂对香石竹切花保鲜效果研究 杜晓华, 周瑞金, 王增田(178)
蜜环菌保健饮料的研制 王广耀, 程 喆(181)
钙对牡丹切花保鲜效果的影响 彭绍峰, 王占营, 周子发, 等(183)
荔枝纳米保鲜剂研究及应用进展 周武艺(185)

◆食 用 菌◆

- 工厂化栽培灰树花菌株的筛选研究 潘 辉, 王瑞娟, 李正鹏, 等(188)
香菇冷棚半熟料袋栽技术规程 冯景刚, 程远星, 吴丽馥(191)
设施栽培秀珍菇菌株比较试验 刘 宇, 王兰青, 王守现, 等(193)

◆中 草 药◆

- 抑制面部毛细血管扩张的生物学机理及相关中草药 刘文婷, 何聪芬, 董银卯(196)
三种方法测定苍耳 VC 含量的研究 李泽鸿, 管玉兵, 练荣伟, 等(200)
密花香薷有效成分的定性分析 包锦渊, 李军乔, 张璐璐, 等(202)
广西特有药用植物弄岗唇柱苣苔叶插繁殖研究 潘春柳, 彭玉德, 吕惠珍(205)

◆专题综述◆

- 白菜耐热性研究进展 李亭亭, 徐文玲, 张友民, 等(208)
沙棘组织培养研究进展 秦晶晶, 陈 纹, 孙 坤(212)
植物 Δ^6 -脂肪酸脱氢酶及其基因的研究进展 黄胜和, 丁永红, 哈斯阿古拉(216)
鹿蹄草资源的开发与利用研究 孙彩玉, 陈 忠, 王威威, 等(220)

◆农业经纬◆

- 津巴布韦的园艺产业及其发展前景 胡宇舟, 李世峰(223)
北京地区低价值林改造浅谈 张 博, 马履一, 贾忠奎, 等(225)

NORTHERN HORTICULTURE

(Started in 1977, Half Monthly)

Total NO. 232, NO. 1(2011), The First Half of January

Contents

◆Experimentation and Research◆

- Study on Modifying and Optimization Technology of Tree Form in Pear Tree ZHAO De-ying, CHENG Cun-gang, CAO Yu-fen, et al(1)
Effect of Different Fruit Loading Treatments on the Photosynthesis and Fruit Quality of Strawberry in Ningxia Greenhouse
..... SHAN Shou-ming, YANG Shu-ling, WANG Zhen-ping, et al(5)
Study on Determination of the Content of Reduction-type VC in Chinese Grapefruit's Sarcocarp with Phosphomolybdate-blue Spectrophotometry
..... LIU Shao-jun, NIU Ying, LIU Bing-hao, et al(8)
Evaluation on Comprehensive Characteristics from 7 Tomato Germplasm Resources and Analysis of Membership Function
..... MA Hong-ying, ZHANG Yuan-fang, ZHANG Xiao-lei, et al(13)
Effect of the Chitosan Solution of Wood Vinegar on Growth, Yield and Quality of Cucumber in Greenhouse LI Yu-qi, AO Yan-song(16)
Effects of Potassium in Nutrient Solution on *Allium sativum* Seedling Growth as well as Root Activity of Garlic
..... CHEN Kun, LIU Shi-qi, ZHANG Zi-kun(20)

◆Research Notes◆

- Varieties Compared Experiment of Overwintering Spinach Suitable for Export XIA Xiu-bo, WANG Quan-hua, YIN Guo-xiang, et al(24)
Dosage Effects of $LaCl_3$ Alleviation on Acid Rain Stresses During *Cucurbita pepo* Seed Germination YANG Jie, YANG Wang-hui, XU Ke, et al(26)
Effects of Biogas Slurry on the Growth and Development of Carrot ZHANG Ya-li, WANG Jun-jie, CAO Bei, et al(29)
Effect of Bagging on Fruit Growth and Quality of Cucumber and Economic Benefits Analysis
..... HOU Tian-ying, WANG Fu-dong, ZHENG Shu-fang(32)
Isolation of Antagonistic Activities of Endophytic Bacteria Fb9 to *Alternaria Solani* and Its Efficiency in Suppression of Tomato Early Blight
..... LI Yong-li, ZHOU Zhou, LI Fan, et al(35)
Effect of Eggplant Quality after Pruning the Old Strain LI Ye, YAO Jian-gang, FAN Shao-zhu, et al(37)
Rhizosphere Microorganisms on Germination of Chinese Cabbage Seeds HE Tie-zhu, GAO Xiao-kuan, GUO Ji-ping(39)
Effects of Chinese Traditional Medicine Plant Nutrition Mucus on the Yield and Quality of Pakchoi ZHANG Qian, CHEN Ke, JIANG Wen, et al(41)
Quantitative Traits Analysis of Cluster Analysis Among some *Allium* Cultivars JIA Jun-xiang, CUI Lian-wei, SUN Yong-sheng(44)
Effects of Microbe-fertilizer and Manures on the Quality of Edible Portion of the Flowering Chinese Cabbage
..... JIN Ya-zhong, HE Shu-ping, LIAN Hua, et al(46)
Influence of Glucose Oligosaccharide Acids on Seeds Germination Ability and Seedling Growth of Tomato
..... LIU Wei-ping, ZHANG Zhi-min, WANG Shi-kui, et al(49)
Investigation of Anti-cancer Plant Resources in Kunyu Mountain ZHAO Jiang-he, WANG Yun-zhe, SHI Yuan(51)
Effect of Rare Earth on Quality of Royal Gala Apples ZHANG Li-fei, YANG Yang(54)
Survey to the Local Variety Resources of *Astringent persimmon* in Pingdingshan City of Henan Province
..... HU Hui-ling, ZHOU Jun-guo, HAN De-bo, et al(56)
Study on Buds Chilling Requirements of Several Nectarine Cultivars OUYANG Ru-xin(59)

◆Facilities Horticulture◆

- Progress of Solar Greenhouse's Construction in Liaoning Province BAI Yi-kui, LI Tian-lai, WANG Tie-liang, et al(62)

◆Garden Design and Garden Plants◆

- Comprehensive Utilization and Development Prospect of Peony Flowers YOU Yu-ming, YANG Fan, XIONG Yun-hai(67)
Anatomical Studies on the Leaves of Four Species of *Acer*. L. LI Ping, ZHANG You-min(70)
Study on Introduction and Cultivation of *Limonium sinense* WANG Ya-li, LI Yong-hua, WANG Yu, et al(73)
Study on Pollen Vitality and Stigma Receptivity of *Amorpha fruticosa* DU Xiao-hua, JIA Wen-qing, LI Yue-xia(76)
Analysis of Pollen Shape and Livingness in *Ardisia mamillata* DU Juan, SHAO Hui-min, YE Meng(80)
Analysis on Factors which Consisted of Rainfall Grade and the Diameter of Bamboo Influencing the Stemflow of Northern Subtropical Bamboo Forests
..... ZHANG Jia-yang, HU Hai-bo(84)
Study on the Progress of Floret Organs Development of Lily XU Li-ping, TANG Dao-cheng(86)
Effect of Salt Stress on Seeding Vitality Index of *Secale cereale* LI Ji-guang, YU Shuang, XIAO Jie, et al(89)
PEG Osmotic Stress on Physiological Property of *Phyllitis japonica* Kom YUE Hua, SUN Xiao-cong(91)
Preliminary Study on Fertility of Livingstone Daisy's LIU Ya-ting, NIU Li-xin(96)

Investigation and Evaluation about Ornamental Fruit and Flower Ground-cover Plants Planted in Zhengzhou City

..... YUAN Tong-yin, YANG Fang-rong, FAN Wei-na (99)

Study on Aesthetic of Agricultural Landscape MA Jing, DUAN Yuan-gu, AN Xin-dong, et al(102)

Application of Ornamental Solanaceous Vegetables at Home Gardening JIN Fei-fei, FU Qing-gong, ZHU Zhu-jun(105)

Characteristics of Main Vegetation Types in Wudalianchi Scenic Spot of Heilongjiang Province SHEN Hai-bin, WANG Xiao-de, DONG Li-jun(108)

Analysis of Characteristics of Flowers Landscape in Outdoor Exhibition of the 7th Flower Expo LI Yi-qun, YANG Xiu-zhen, REN Li-chao(112)

Application Research of the Native Trees in the Landscape Construction of Qiqihar City LIANG Yan, YANG Xiao-jie, LIU Min, et al(116)

◆Biotechnology◆

Optimization for ISSR-PCR Reaction System in Lotus Root Using Orthogonal Design LI Chang-chun, YANG Tian-quan, DAI Yu-jun, et al(121)

Genetic Transformation of *Portulaca oleracea* L. Callus Mediated by *Agrobacterium tumefaciens* WANG Hong-yan, WANG Hong-lei, HUANG Qun-ce(124)

Establishment of Effective Regeneration System of *Brassica rapa* in vitro PEI Dong-li(127)

Determined and Analyzed of Enzymatic Activity and Protein Electrophoretogram in Hybrid Orchids and Their Hybrid Generation ZHU Qing-song, ZHANG Jing-hua, WANG Guang-dong, et al(129)

Initial Establishment of Rapid Propagation of Wild *Rubus parvi folius* Linn ZHANG Qi-chun, HAN Xiang, ZHAO Yang, et al(133)

Study on Isolation of Total RNA from Raspberry Fruit LIU Dan, GAO Qing-yu, ZHANG Bing-xiu, et al(136)

Tissue Culture of Stem Segments and Rapid Propagation of *Nyssa sinensis* Oliv. WANG Chun-rong, BI Jun, CAO Shu-min(139)

Study on the Antibacterial Activity of *Elaeagnus macrophylla* Thunb Leaf Extract LIU Jian-ping, YOU Bao-chang, JING Ya-ling, et al(144)

Identification and ITS-5. 8S rDNA Sequence Analysis of the Antagonistic Yeast Strain 0732-1 for Against *Acidovorax avena* subsp. *citrulli* WANG Xiao-dong, LI Guo-qing, ZHANG Li, et al(146)

Physiological and Biochemical Changes During Regeneration of the *Lilium longiflorum* Thunb CHEN Li-jing, SUN Chun-yu, MA Hui, et al(149)

Research of the Salt Resistance in Seedling Cultivation of *Dendrobium officinale* LI Guo-shu, XU Cheng-dong, LI Tian-xing, et al(153)

Effect of Plant Growth Regulator on Callus Induction of *Polygonatum sibiricu* YANG Yu-hong(156)

◆Plant Protection◆

Occurrence Law and Control Technology of Root Rot of Yam JIA Hai-min, LU Xiu-yun, CHEN Dan, et al(159)

Determination on Toxicity of Twenty-one Bactericides to *Pseudomonas syringae* pv. tomato REN Jian-guo, WANG Jun-li, YUE Mei-yun(163)

Biological Control of the Seedlings Damping-off of Sesame by Endophytic Bacteria G10 Isolated from Roots of Sesame Seedlings WANG Jun-fang, WANG Miao, GUO Yan-wei, et al(166)

Study on the Biology Characteristic of *Aconitum coreanum* Root Rot Disease WEI Shu-qin(169)

Field Effect Comparison of Pharmacy to Apple Canker BU Hai-dong, LIU Yan-jie, ZHANG Wu-jie, et al(171)

◆Soil and Fertilizer◆

Effects of Medium and Trace Elements on Nutritive Absorption and Yield of Pepper WANG Xiu-juan, LOU Chun-rong, XIE Zhan-jun, et al(174)

◆Storage and Processing◆

Preservation Effect of Different Preservatives of Vase Cut on the of Carnation Cut-flower DU Xiao-hua, ZHOU Rui-jin, WANG Zeng-tian(178)

Study on New Health Drink from *Armillaria mellea* WANG Guang-yao, CHENG Zhe(181)

Effects of the Calcium on Preservation of Peony Cut Flower PENG Shao-feng, WANG Zhan-ying, ZHOU Zi-fa, et al(183)

Progress on the Application of Keeping Fresh Nano-materials for Lichi ZHOU Wu-yi(185)

◆Edible Fungi◆

Screening of Excellent *Gri fola frodosa* Strain for Industrial Cultivation PAN Hui, WANG Rui-juan, LI Zheng-peng, et al(188)

Comparative Experiment on *Pleurotus geesteranus* Strains in Facilities Culture LIU Yu, WANG Lan-qing, WANG Shou-xian, et al(193)

◆Chinese Traditional Medicine◆

Research Advances on Biological Mechanism of Facial Telangiectasia LIU Wen-ting, HE Cong-fen, DONG Yin-mao(196)

Analysis on the Content of VC in *Xanthium* L. by Three Methods LI Ze-hong, GUAN Yu-bing, LIAN Rong-wei, et al(200)

Qualitative Analysis of Effective Constituent of *Elsholtzia densa* Benth. BAO Jin-yuan, LI Jun-qiao, ZHANG Lu-lu, et al(202)

Study on Cutting Propagation of an Endemic Medicinal Plant *Chirita longgangensis* W. T. Wang in Guangxi PAN Chun-liu, PENG Yu-de, LV Hui-zhen(205)

◆Summarize◆

Research Progress on Heat Resistance of Chinese Cabbage LI Ting-ting, XU Wen-ling, ZHANG You-min, et al(208)

Research Progress on Tissue Culture of *Hippophae rhamnoides* L. QIN Jing-jing, CHEN Wen, SUN Kun(212)

Research Progress on Δ^6 -Fatty Acid Desaturases of Plant HUANG Sheng-he, DING Yong-hong, HASI Agula(216)

Research on the Development and Utilization of *Pyrola* Resources SUN Cai-yu, CHEN Zhong, WANG Wei-wei, et al(220)

◆Agricultural Relavant Issues◆

Horticulture Industry and its Developmental Prospect in Zimbabwe HU Yu-zhou, LI Shi-feng(223)

Brief Talk on Reforming of the Low-value Forest in Beijing Area ZHANG Bo, MA Lv-yi, JIA Zhong-kui, et al(225)