

中国学术期刊(光盘版)全文收录期刊

美国化学文摘社(CAS)收录期刊

# 北方园艺

NORTHERN HORTICULTURE

中文核心期刊

黑龙江省优秀期刊

中国北方优秀期刊

全国优秀农业期刊

黑龙江省农业科学院

黑龙江省园艺学会

主办

22  
2012  
总第277期  
11月(下)

# 北方园艺

(1977 年创刊·半月刊)

BEI FANG YUAN YI

总第 277 期 2012 年第 22 期 11 月(下)

## 目 次

### ◆试验研究◆

- 提高宁夏旱砂地幼龄枣树坐果率的技术研究 ..... 魏天军,李百云(1)  
苹果细纺锤形幼树叶片和枝条状况对分形维数的影响 ..... 韩晓珍,李丙智,张社奇,等(6)  
植物生长调节剂对无核白鸡心葡萄品质的影响 ..... 孙美乐,乔 旭,崔慧琴,等(10)  
葡萄山椒落花落果规律及提高坐果率研究 ..... 赵京献,毕 君(13)  
“桂橙一号”果实膨大与气象因子的相关性分析 ..... 罗世杏,陈贵峰,梅正敏,等(16)  
不同浓度海水对蔬菜种子萌发的影响 ..... 贺立红,兰 霞,余土元,等(19)  
不同萝卜品种淀粉酶活性的差异研究 ..... 任喜波,戴希尧,张俊花,等(21)

### ◆研究简报◆

- “威代尔”葡萄单株负载量对浆果品质和枝蔓贮藏营养的影响 ..... 潘 肃,张文革,郭太君(24)  
摘心与抹芽对木质化枣吊形成的影响 ..... 唐忠建,何 梅,高俊萍(26)  
覆盖方式对高海拔冷凉区胡萝卜生长发育的影响 ..... 王志伟,张玉鑫,张俊峰(29)  
不同秸秆生物发酵菌种对辣椒生长发育和产量的影响 ..... 付乃旭,王 群,荣传胜,等(31)  
播期与砍收期对茎瘤芥产量和菜形的影响 ..... 张先淑,谢朝怀,余学川,等(33)  
六个茎瘤芥地方品种的熟期与产量比较 ..... 李昌满,许明惠(36)  
万方数据

## ◆设施园艺◆

- 不同蔬菜种植模式对设施栽培土壤微生物和枯萎病发生的影响 ..... 马建华,张丽荣,杜玉宁(38)  
河南省秋延后水果型黄瓜无土栽培品种比较试验 ..... 周海霞,李武高,吴小波(40)

## ◆栽培技术◆

### ☆菜园☆

- 新疆加工番茄育苗关键技术 ..... 王春丽(42)

### ☆瓜园☆

- 五层覆盖大拱棚西瓜丰产栽培技术 ..... 王花亭(45)

## ◆园林花卉◆

### ☆植物☆

- 水杨酸处理对南美水仙形态指标的影响 ..... 吴嘉,宋晓蕾,段玉云,等(47)  
紫苏地上器官水浸液对野草香的化感作用 ..... 周秀梅,关晓弯,冯晓燕,等(50)  
五种水生植物对富营养化水体净化能力的研究 ..... 刘旭富,石青(54)  
几种盆栽植物对甲醛的净化作用 ..... 欧坚泉,周俊辉,陈水渐,等(57)  
不同种植密度对切花白菊外观品质及产量的影响 ..... 杨林(61)  
吉林市主要园林植物对空气污染的生理适应性研究 ..... 申璐,贾云生,潘丽梅(63)  
屋顶种植药用植物的安全性评价 ..... 杜喜春(67)  
施钾对万寿菊生物学性状及产量的影响 ..... 王立凤,姜明,姜述君,等(69)  
水分胁迫对花叶络石生理指标的影响 ..... 黄滔,王秋姣,唐红(72)  
金叶朝鲜连翘扦插播种育苗技术 ..... 赵慧珠,岳彦桥(75)  
ABT-2号生根粉对醉鱼草扦插繁育的影响 ..... 韩艳英,叶彦辉,桑木旦(76)  
北海道黄杨扦插繁育技术 ..... 李银华,张艳红(79)

### ☆景观☆

- 哈尔滨城市绿地土壤肥力调查与评价 ..... 胡海辉,徐苏宁,陈雅君,等(81)  
万方数据

- 水培观赏甘薯的栽培管理及其在家庭绿化中的应用 ..... 周雅倩,陆国权(83)  
黄河三角洲植物多样性及其应用价值研究 ..... 朱成华,袁云香(86)  
衡水湖湿地生态资源保护与开发对策研究 ..... 石宝军,王立科(89)  
镉污染地区修复性植物与群落设计 ..... 孙 刚,金研铭,徐惠风,等(92)

## ◆生物技术◆

- 中国石蒜的组织培养和快速繁殖 ..... 戴 萍,张春霞,张 智,等(95)  
福白菊与八种药用菊花 POD 同工酶比较分析 ..... 程 华,李琳玲,袁红慧,等(99)  
适于 AFLP 分析的非洲紫罗兰 DNA 提取方法研究 ..... 孙永健,孙 宁,曹智攀,等(104)  
枣树实生苗固有内生细菌的检测 ..... 侯晓杰(108)  
响应曲面法优化万寿菊叶黄素的提取工艺 ..... 汪殿蓓,张胜红,李建华(111)  
红掌组培快繁技术研究 ..... 何贵整,陈丽文,时 群,等(115)  
黑穗醋栗‘寒丰’离体快繁影响因素研究 ..... 李金英,赵春莉,张志东(119)  
丽格海棠组织培养技术的研究 ..... 陈林晶,张熹涛,曹玉凤,等(122)

## ◆植物保护◆

- 淡竹叶井刺趾铁甲生物学特性 ..... 戴小华,徐家生,江智敏(125)  
苯醚甲环唑在黄瓜和土壤中的残留及安全性评价 ..... 王绍敏,宋国春,李 喆,等(127)  
10%苯醚菌酯悬浮剂对籽用西瓜白粉病的药效研究 ..... 王萍莉(131)  
苹果炭疽病菌生物学特性研究 ..... 周慧杰,郭 玲(133)  
不同茄子品种对灰霉病的室内抗病性鉴定 ..... 朱丽梅,崔群香,曹嘉懿,等(135)  
几种药剂防治温室黄瓜蓟马的田间药效试验 ..... 贾彦霞,朱春花,马 丁(138)  
五种农药对露尾甲的防治效果 ..... 来有鹏,张登峰(140)  
不同药剂处理对大白菜种子萌发的影响 ..... 李 颖,白元俊,苗则彦,等(142)  
五种杀菌剂对平菇菌丝及青霉生长的影响 ..... 朱妍梅,桂清婷(144)  
黔北地区柑桔蛀果虫的发生危害规律与综合防治技术 ..... 周光萍(147)

## ◆食用菌◆

- 双孢菇菌渣养殖蛴螬技术初探 ..... 徐康铭,吕蔚,王鸿磊,等(151)

## ◆中草药◆

- 光照强度对红花芽菜生长和维生素C含量的影响 ..... 成元刚,王锐,孟丽(154)

- 两种植物生长调节剂对杜仲幼苗生长的影响 ..... 唐萍,韩存存(157)

- 硒和钙对蛹虫草活性物质含量的影响 ..... 翁梁,温鲁(159)

## ◆土壤与肥料◆

- 苹果园土壤养分状况对“红富士”苹果果实品质的影响 ..... 窦云萍,牛锐敏,王春良,等(162)

- 不同施肥模式对千日红开花株生长的影响 ..... 吴文林,化青珠,潘世龙,等(164)

- 不同施肥措施对土壤氮素时空变化的影响 ..... 马茂亭,安志装,邹国元,等(168)

## ◆产业论坛◆

- 河北省蔬菜品牌建设中的问题及对策 ..... 韩红雷,郑红维,王哲,等(172)

## ◆专题综述◆

- CBF转录因子介导的植物低温响应途径研究进展 ..... 赵琼珍,李群(175)

- 耐盐碱植物研究进展 ..... 唐相亭,金研铭(181)

- 园艺植物组培育苗技术研究进展 ..... 黄丽娜,陈清西(184)

- 土壤重金属污染修复研究进展 ..... 刘刊,王波,权俊娇,等(189)

## ◆农业经纬◆

- 黑龙江省农业旅游的现状及发展对策 ..... 李世楠(195)

- 武汉市蔬菜市场调查分析 ..... 丁健,朱涛,张洁(198)

# NORTHERN HORTICULTURE

(Started in 1977, Half Monthly)

Total NO. 277, NO. 22(2012), The Second Half of November

## Contents

### ◆ Experimentation and Research ◆

- Research on Different Technical Measures of Improving Fruit-setting Rate of Young Jujube in Gravel-sand Mulched Field in Ningxia ..... WEI Tian-jun, LI Bai-yun(1)  
Effects of the Contribution Rate of Leaves on the Fractal Dimension Number of Young Apple Trees Trained to A Slender Spindle Configuration ..... HAN Xiao-zhen, LI Bing-zhi, ZHANG She-qj, et al(6)  
Effects of Plant Growth Regulators Influenced on Centennial Seedless Fruit Quality ..... SUN Mei-le, QIAO Xu, CUI Hui-qin, et al(10)  
The Techniques of Fruit Setting Improvement Method of *Zanthoxylum piperitum* f. *inerme makino* ..... ZHAO Jing-xian, BI Jun(13)  
The Correlation Analysis Between the Fruit's Growth of 'Guicheng No. 1' and Meteorological Factors ..... LUO Shi-xing, CHEN Gui-feng, MEI Zheng-min, et al(16)  
Effect of Different Concentrations of Seawater on Seed Germination of Vegetables ..... HE Li-hong, LAN Xia, YU Tu-yuan, et al(19)  
Study on Differences of The Amylase Activity in Different *Raphanus sativus* L. ..... REN Xi-bo, DAI Xi-yao, ZHANG Jun-hua, et al(21)

### ◆ Research Notes ◆

- Effects of 'Vidal' Monoclonal Loid on Fruit Quality and Branches of Nutrition Storage ..... PAN Su, ZHANG Wen-ge, GUO Tai-jun(24)  
Effects of Pinching and Bud Picking on the Formation of the Hanging Wooden of the Dates ..... TANG Zhong-jian, HE Mei, GAO Jun-ping(26)  
Effects of Mulching Mode on Growth and Development of Carrot in High-altitude Cold Areas ..... WANG Zhi-wei, ZHANG Yu-xin, ZHANG Jun-feng(29)  
Effect of Different Straw Bio-fermentation Strains on the Growth and Yield of *Capsicum annuum* ..... FU Nai-xu, WANG Qun, RONG Chuan-sheng, et al(31)  
Effect of Sowing Date and Date of Harvest on Yield and Shape of Tumorous Stem in *Brassica juncea* var. *tumida* Tsen et Lee ..... ZHANG Xian-shu, XIE Chao-huai, YU Xue-chuan, et al(33)  
Comparison of Mature Period and Yield of Six Tumorous Stem Mustard Local Varieties ..... LI Cang-man, XU Ming-hui(36)

### ◆ Facilities Horticulture ◆

- Effect of Different Vegetable Cropping Patterns on Soil Microbes and Wilt in Facilities Cultivation ..... MA Jian-hua, ZHANG Li-rong, DU Yu-ning(38)  
Soilless Cultivation Test of Fall Autumn Fruit Varieties Cucumber in Henan Province ..... ZHOU Hai-xia, LI Wu-gao, WU Xiao-bo(40)

### ◆ Garden Design and Garden Plants ◆

- Effect of Salicylic Acid Treatments on Morphological Indexes of *Eucharis grandiflora* ..... WU Jia, SONG Xiao-lei, DUAN Yu-yun, et al(47)  
Allelopathy of Aqueous Extracts from Different Up-ground Organs of *Perilla frutescens* on *Elsholtzia cypriani* ..... ZHOU Xiu-mei, GUAN Xiao-wan, FENG Xiao-yan, et al(50)  
Study on Purification Capacity of Five Kinds of Aquatic Plants on Eutrophic Water Body Purification Capacity ..... LIU Xu-fu, SHI Qing(54)  
Purification of Formaldehyde-polluted Air by Several Potted Plants ..... OU Jian-quan, ZHOU Jun-hui, CHEN Shui-jian, et al(57)  
Effects of Planting Density on Appearance Quality and Productivity of White Cutting Chrysanthemum ..... YANG Lin(61)  
Study on the Main Physiological Adaptive of Air Pollution of the Garden Plants in Jilin City ..... SHEN Lu, JIA Yun-sheng, PAN Li-me(63)  
Evaluation of Safety of Medicinal Plants Planting on the Roofs ..... DU Xi-chun(67)  
Effect of Potassium Fertilizer Application on Biology Character and Yield of *Tagetes erecta* ..... WANG Li-feng, JIANG Ming, JIANG Shu-jun, et al(69)  
Effect of Water Stress on the Physiological Index of *Trachelospermum jasminoides* ..... HUANG Tao, WANG Qiu-jiao, TANG Hong(72)  
Effect of ABT-2 on Cutting Propagation of *Buddleja alternifolia* Maxim. ..... HAN Yan-ying, YE Yan-hui, SANG Mu-dan(76)  
Study on Cutting Breeding Technology of *Euonymus japonicus* ..... LI Yin-hua, ZHANG Yan-hong(79)  
Survey and Evaluation of Soil Fertility in Harbin Urban Green Space ..... HU Hai-hui, XU Su-ning, CHEN Ya-jun, et al(81)  
Cultivation and Virescence Application of Hydroponic Ornamental Sweetpotato at Home Gardening ..... ZHOU Ya-qian, LU Guo-quan(83)  
Study on Plant Diversity and Its Application Value of the Yellow River Delta ..... ZHU Cheng-hua, YUAN Yun-xiang(86)

Countermeasure Research on Protection and Development of Ecological Resource in Hengshui Lake	SHI Bao-jun, WANG Li-ke(89)
Advances on Garden Tree Resistance to Cadmium Stress	SUN Gang, JIN Yan-ming, XU Hui-feng, et al(92)

### ◆ Biotechnology ◆

Tissue Culture and Rapid Propagation of <i>Lycoris chinensis</i>	DAI Ping, ZHANG Chun-xia, ZHANG Zhi, et al(95)
Analysis and Comparison of POD Isozyme for <i>Chrysanthemum</i> ‘Fubaiju’ and Eight Cultivars of <i>Chrysanthemum</i>	CHENG Hua, LI Lin-ling, YUAN Hong-hui, et al(99)
Study on DNA Extraction of <i>Saintpaulia ionantha</i> for AFLP Reaction System	SUN Yong-jian, SUN Ning, CAO Zhi-pan, et al(104)
Detection of Indigenous Endophytic Bacteria in Jujube Seedlings Germinated From Seeds	HOU Xiao-jie(108)
Optimization of Extraction Conditions of Xanthophyll from <i>Tagetes erecta</i> L. by Response Surface Methodology	WANG Dian-pei, ZHANG Sheng-hong, LI Jian-hua(111)
Study on Technology of Tissue Culture and Rapid Propagation of <i>Anthurium andraeanum</i>	HE Gui-zheng, CHEN Li-wen, SHI Qun, et al(115)
Study on the Factors Influencing Rapid Propagation <i>in vitro</i> of <i>Ribes nigrum</i> L. ‘Hanfeng’	LI Jin-ying, ZHAO Chun-li, ZHANG Zhi-dong(119)
Study on Tissue Culture Technology of <i>Rieger begonia</i>	CHEN Lin-jing, ZHANG Xi-tao, CAO Yu-feng, et al(122)

### ◆ Plant Protection ◆

Bionomics of <i>Dactylispa approximatea</i> on <i>Lophatherum gracile</i>	DAI Xiao-hua, XU Jia-sheng, JIANG Zhi-min(125)
Residues and Application Safety Assessment of Difenoconazole on Cucumber and Soil	WANG Shao-min, SONG Guo-chun, LI Zhe, et al(127)
Study on Efficacy of 10% ZJ0712 SC on Seed Watermelon Powdery Mildew	WANG Ping-li(131)
Study on Biological Characteristics of Apple Anthrax Bacteria	ZHOU Hui-jie, GUO Ling(133)
The Identification of Disease Resistance of Different Eggplant Varieties to <i>Botrytis cinerea</i>	ZHU Li-me, CUI Qun-xiang, CAO Jia-yi, et al(135)
Field Controlling Efficacy of Five Pesticides on Greenhouse Cucumber Thrips	JIA Yan-xia, ZHU Chun-hua, MA Ding(138)
The Control Efficiency of Five Insecticides to Nitidulid Beetles	LAI You-peng, ZHANG Deng-feng(140)
Effects of Different Germicides on the Germination of Chinese Cabbage	LI Ying, BAI Yuan-jun, MIAO Ze-yan, et al(142)
Effects of Five Fungicides on the Hypha Growth of <i>Pleurotus ostreatus</i> and <i>Penicillium</i> spp.	ZHU Yan-me, GUI Qing-ting(144)
Occurrence Regularity and Comprehensive Control Technology of <i>Dichocrocis punctiferalis</i> on Citrus in Northern Guizhou Area	ZHOU Guang-ping(147)

### ◆ Edible Fungi ◆

Technology Research on Breeding <i>Holotrichia diomphalia</i> with <i>Agaricus bisporus</i> Residue	XU Kang-ming, LV Wei, WANG Hong-lei, et al(151)
---	---

### ◆ Chinese Traditional Medicine ◆

Effect of Light Intensity on the Growth and Vitamin C Content of Safflower Sprouts	CHENG Yuan-gang, WANG Rui, MENG Li(154)
Effect of Two Plant Growth Regulators on Seedling Growth of <i>Eucosmia ulmoides</i> Oliv	TANG Ping, HAN Cun-cun(157)
Effects of Selenium and Calcium on the Content of <i>Cordyceps militaris</i> Active Substances	WENG Liang, WEN Lu(159)

### ◆ Soil and Fertilizer ◆

Effects of Soil Nutrient Contents on Fruit Qualities of ‘Red Fuji’ Apple	DOU Yun-ping, NIU Rui-min, WANG Chun-liang, et al(162)
Effect of Different Fertilization Patterns on Growth of Blossom Strains of <i>Gomphrena globosa</i> L.	WU Wen-lin, HUA Qing-zhu, PAN Shi-long, et al(164)
Effects of the Fertilization Measures on Spatial-temporal Dynamics of Soil Nitrogen	MA Mao-ting, AN Zhi-zhuang, ZOU Guo-yuan, et al(168)

### ◆ Industry Forum ◆

Problems and Countermeasures of Vegetable Brand Construction in Hebei Province	HAN Hong-lei, ZHENG Hong-wei, WANG Zhe, et al(172)
--	--

### ◆ Summarize ◆

Research Progress of Cold Reponse Pathway Under Low Temperature Mediated by CBF Transcription Factor in Plants	ZHAO Qiong-zhen, LI Qun(175)
Research Advances of Salt-alkaline Tolerance in Plants	TANG Xiang-ting, JIN Yan-ming(181)
Research Advance of Tissue Culture Nursery Technology on Horticultural Plants	HUANG Li-na, CHEN Qing-xi(184)
Research Progress of Remediation of Heavy Metals Contaminated Soils	LIU Kan, WANG Bo, QUAN Jun-jiao, et al(189)

### ◆ Agricultural Relavant Issues ◆

Situation and Developmental Measures on Agricultural Tourism in Heilongjiang Province	LI Shi-nan(195)
The Research on Vegetable Market in Wuhan	DING Jian, ZHU Tao, ZHANG Jie(198)