



全国中文核心期刊 中国科技核心期刊  
中国科学引文数据库（CSCD）来源期刊  
RCCSE中国核心学术期刊（扩展版）  
中国农业核心期刊

ISSN1004-3268  
CN41-1092/S

# 河南农业科学

JOURNAL OF HENAN AGRICULTURAL SCIENCES

第42卷 第2期

Vol.42 No.2

2013



河南省农业科学院 主办

## 目 次

### 综述

- Bt 转基因抗虫水稻的研究进展及其对家蚕的风险评估 ..... 杨艳华 戴莉 陈克平(1)  
烤烟重金属来源及其治理技术研究进展 ..... 刘天波 刘友梅 李帆 裴晓东(7)  
茶藨子柱锈菌(*Cronartium ribicola*)研究进展 ..... 韩长志(11)

### 作物栽培·遗传育种

- 小麦 F-box 蛋白基因的电子克隆和生物信息学分析 ..... 王俊生 李俐俐 杨欢 谭光轩 殷贵鸿(15)  
平原区农田林网光强变化及其对小麦产量的影响 ..... 陈振江 李芳东 王保平 孟伟 段伟 朱景乐 苏福疆 杨海清(20)  
豫西旱作麦区小麦籽粒灌浆特性研究 ..... 温红霞 田文仲 张少澜 张园 马义勇 孙灵娇 段国辉 余四平 张学品 高海涛(26)  
玉米行粒数主基因+多基因混合遗传模型分析 ..... 张怀胜 陈士林 王铁固(30)  
光强对玉米幼苗不同叶位叶片花环结构的影响 ..... 姜雯宇 李智 张红亮 张福珍 郭丽丽 朱延姝(34)  
晚播早熟小麦新品种太学6号的选育 ..... 黄彦宗(38)  
地方红花种质资源的形态标记聚类分析 ..... 郭丽芬 张跃 胡尊红 胡学礼 徐宁生 张锡顺 杨谨 刘旭云(41)  
韶关野生竹叶花椒挥发油含量与组分分析 ..... 刘发光 肖艳辉 何金明 谭茗芊(46)  
响应面分析法优化处理烟叶模块用酶配方的研究 ..... 李季刚 潘连华 普元柱 包秀萍 王松峰 李仙(50)  
驻马店推广烤烟品种(系)烟叶致香物质和风格特色的差异 ..... 杨立均 翟文江 薛超群 郭传滨 王建伟 奚家勤(54)

### 农业资源·环境

- 北戴河及相邻地区近岸海域农业面源污染测算及特征分析 ..... 代伟(58)  
设施和露地白菜生产中肥料的偏生产力分析 ..... 孙书棋 范茂攀 汤利 郑毅(62)  
潮土区麦田土壤有效钾施肥指标及施钾量研究 ..... 孙克刚 和爱玲 金修宽 李向东 胡颖 祝秀花 赵丽君(67)  
大连复州河流域玉米土壤硝态氮动态变化及合理施肥调控 ..... 刘智强 王志军 徐铭毅(70)  
陇海铁路郑汴段两侧土壤有机质分布及其影响因素 ..... 陈延辉(74)

### 植物保护

- 许昌泡桐丛枝病植原体的分子鉴定 ..... 李婷婷 史梦蝶 张宁 赵文军 孙现超(78)  
河南省北部夜间空中昆虫群落的初步研究 ..... 高丽娜 田彩红 封洪强 李国平 邱峰 王运兵(83)  
pH值等因素对不同农药悬浮剂稳定性的影响 ..... 董立峰 李慧明 王智 张保华(89)  
金龟子绿僵菌的液固双相发酵研究 ..... 许天委 张世清 黄俊生(93)

### 园艺·林学

- 不同施肥模式在西瓜上的应用效果研究 ..... 李晓慧 徐小利 常高正 赵卫星 杨帆 梁慎(98)  
光质对铁棍山药试管苗生根的影响 ..... 郭君丽 王俊甫 张晓丽 李明军(101)

期刊基本参数:CN 41-1092/S \* 1972 \* M \* 16 \* 160 \* zh \* P \* ¥12.00 \* 1600 \* 38 \* 2013-02

- 贵州天门冬种质资源遗传多样性的 ISSR 分析 ..... 曾桂萍 潘仲平 刘红昌 赵致(105)  
洛阳高山种植区牡丹花期预测模型构建与检验 ..... 陈琪 彭正峰 梁国辉 苏金乐(109)  
桑树毛状根再生条件研究 ..... 杨金宏(113)  
濒危植物疏花水柏枝种子萌发力丧失及贮藏条件研究  
..... 秦洪文 刘正学 钟彦 刘仁华 张立冬 向丽霞 刘锐(116)  
广玉兰类型的初步划分 ..... 刘艳萍 朱延林 康向阳 晏增 马永涛(120)

### 畜牧·兽医

- 多重实时定量 PCR 快速检测 PRRSV、CSFV 和 PCV2 混合感染方法的建立  
..... 赵绪永 宁豫昌 赵丽 马辉(123)  
猪链球菌 2 型基因芯片检测技术的建立 ..... 刘玲玲 李文刚 唐桂芬 程亚楼(128)  
动物组织中  $\beta$ -兴奋剂类药物多残留酶联免疫检测方法的建立  
..... 万宇平 刘宁 陶光灿 吴鹏 李勇 崔廷婷(132)  
低氧条件下甘肃鼢鼠鼻黏膜内含 SP 及 CGRP 的免疫反应纤维长度变化 ..... 王智 李金钢(136)  
二甲氧苄啶对磺胺类药物的抗球虫增效作用研究 ..... 王峰 王国永 郝雪琴 赵振升(142)  
5 株堆型艾美耳球虫顶质体 *rpoB* 基因的扩增及序列分析  
..... 刘国昌 林瑞庆 严浩 胡钱江 刘丽丹 翁亚彪(145)

### 农产品加工·农业工程

- 丙酮研磨法提取麦麸中辅酶 Q<sub>10</sub>的工艺研究 ..... 王丽霞 刘坤 张秀媛 史忠林(149)  
不同植被土壤产淀粉酶放线菌的分离与筛选 ..... 李堆淑(152)  
黑粒青麦仁协同护色技术研究 ..... 康志敏 范运乾 张康逸(157)

## CONTENTS

Research advances on <i>Bt</i> transgenic insect-resistant rice and its risk evaluation to silkworm	YANG Yan-hua DAI Li CHEN Ke-ping (1)
Progress on source of heavy metals in the flue-cured tobacco and its control	LIU Tian-bo LIU You-mei LI Fan PEI Xiao-dong (7)
Progress in research on <i>Cronartium ribicola</i>	HAN Chang-zhi (11)
Electronic clone and bioinformatics analysis of F-box protein gene from wheat( <i>Triticum aestivum</i> L.)	WANG Jun-sheng LI Li-li YANG Huan TAN Guang-xuan YIN Gui-hong (15)
PAR change of farmland shelterbelt and its effect on wheat yield in plain area	CHEN Zhen-jiang LI Fang-dong WANG Bao-ping MENG Wei DUAN Wei ZHU Jing-le SU Fu-jiang YANG Hai-qing (20)
Studies on wheat grain filling characteristics in dryland wheat production area of western Henan province	WEN Hong-xia TIAN Wen-zhong ZHANG Shao-lan ZHANG Yuan MA Yi-yong SUN Ling-jiao DUAN Guo-hui YU Si-ping ZHANG Xue-pin GAO Hai-tao (26)
Genetic analysis on kernel number per row by mixed inheritance model of major gene and polygene in maize	ZHANG Huai-sheng CHEN Shi-lin WANG Tie-gu (30)
Effect of light density on kranz structure of leaves in different position of maize seedling	JIANG Wen-yu LI Zhi ZHANG Hong-liang ZHANG Fu-zhen GUO Li-li ZHU Yan-shu (34)
Breeding of late sowing and early mature wheat variety Taixue 6	HUANG Yan-zong (38)
Clustering analysis of safflower( <i>Carthamus tinctorius</i> L.) germplasm resources based on morphological markers	GUO Li-fen ZHANG Yue HU Zun-hong HU Xue-li XU Ning-sheng ZHANG Xi-shun YANG Jin LIU Xu-yun (41)
Studies of volatile oil content and components of wild <i>Zanthoxylum armatum</i> DC. in Shaoguan city	LIU Fa-guang XIAO Yan-hui HE Jin-ming TAN Ming-qian (46)
Research on optimizing enzyme formula for treating tobacco leaf module by response surface methodology	LI Ji-gang PAN Lian-hua PU Yuan-zhu BAO Xiu-ping WANG Song-feng LI Xian (50)
Aroma components and sensory evaluation of tobacco leaves from popularized flue-cured cultivars(lines) in Zhumadian area	YANG Li-jun ZHAI Wen-hui XUE Chao-qun GUO Chuan-bin WANG Jian-wei XI Jia-qin (54)
Estimation of agricultural non-point source pollution emission in Beidaihe coastal waters and its characteristic analysis	DAI Wei (58)
Studies on the partial factor productivity(PFP) of Chinese cabbage fertilization in protected and open land	SUN Shu-qi FAN Mao-pan TANG Li ZHENG Yi (62)
Abundance and deficiency indices of soil available K for wheat and fertilization recommendation in fluvo-aquic soils based on ASI method	SUN Ke-gang HE Ai-ling JIN Xiu-kuan LI Xiang-dong HU Ying ZHU Xiu-hua ZHAO Li-jun (67)
Dynamic variations of nitrate nitrogen in maize field soil of Fuzhou river basin in Dalian and its rational fertilization controlling	LIU Zhi-qiang WANG Zhi-jun XU Ming-yi (70)
Distribution of soil organic matters along the Longhai railway from Zhengzhou to Kaifeng and its influence factors	CHEN Yan-hui (74)
Molecular detection of phytoplasma associated with paulownia witches' broom in Xuchang	LI Ting-ting SHI Meng-die ZHANG Ning ZHAO Wen-jun SUN Xian-chao (78)
Preliminary investigation of nocturnal aerial insect community in northern Henan province	GAO Li-na TIAN Cai-hong FENG Hong-qiang LI Guo-ping QIU Feng WANG Yun-bing (83)

Impact of pH value and other factors on stability of different pesticide SC	DONG Li-feng LI Hui-ming WANG Zhi ZHANG Bao-hua (89)
Liquid-solid dual-phase fermentation of <i>Metarhizium anisopliae</i>	XU Tian-wei ZHANG Shi-qing HUANG Jun-sheng (93)
Effect of different fertilization model on watermelon growth	LI Xiao-hui XU Xiao-li CHANG Gao-zheng ZHAO Wei-xing YANG Fan LIANG Shen (98)
Effects of light qualities on rooting of Tie-gun <i>Dioscorea opposita</i> Thunb. plantlet	GUO Jun-li WANG Jun-fu ZHANG Xiao-li LI Ming-jun (101)
Genetic diversity of <i>Asparagus cochinchinensis</i> (Lour.) Merr. in Guizhou based on ISSR analysis	ZENG Gui-ping PAN Zhong-ping LIU Hong-chang ZHAO Zhi (105)
Construction and inspection of the prediction model for florescence of tree peony in alpine plaiting area of Luoyang city	CHEN Qi PENG Zheng-feng LIANG Guo-hui SU Jin-le (109)
Establishment of plantlet regeneration conditions for mulberry hairy root	YANG Jin-hong (113)
Study of seed germination power loss and storage conditions of endangered plant <i>Myricaria laxiflora</i>	QIN Hong-wen LIU Zheng-xue ZHONG Yan LIU Ren-hua ZHANG Li-dong XIANG Li-xia LIU Rui (116)
Type classification of <i>Magnolia grandiflora</i> L.	LIU Yan-ping ZHU Yan-lin KANG Xiang-yang YAN Zeng MA Yong-tao (120)
Detection of mixed infection of PRRSV, CSFV and PCV2 in swine by multiplex real-time PCR assay	ZHAO Xu-yong NING Yu-chang ZHAO Li MA Hui (123)
Establishment of gene chip method for detecting <i>Streptococcus suis</i> serotype 2	LIU Ling-ling LI Wen-gang TANG Gui-fen CHENG Ya-lou (128)
Determination of β-agonists multi-residue in animal tissue by enzyme-linked immunosorbent assay	WAN Yu-ping LIU Ning TAO Guang-can WU Peng LI Yong CUI Ting-ting (132)
Substance P and calcitonin gene-related peptide immunoreactive nervefibers in nasal mucosa of chronically hypoxic <i>Myospalax canus</i>	WANG Zhi LI Jin-gang (136)
Synergistic effect of ditrimethoprim(diaveridine) combind with several sulfa drugs on chicken coccidiosis	WANG Feng WANG Guo-yong HAO Xue-qin ZHAO Zhen-sheng (142)
PCR amplification and sequence analysis of apicoplast <i>rpoB</i> of five <i>Eimeria acervulina</i> strains	LIU Guo-chang LIN Rui-qing YAN Hao HU Qian-jiang LIU Li-dan WENG Ya-biao (145)
Study on the technology for extracting coenzyme Q <sub>10</sub> from wheat bran by acetone method	WANG Li-xia LIU Kun ZHANG Xiu-yuan SHI Zhong-lin (149)
Isolation and screening of amylase-producing actinomycetes from the soil under different vegetations	LI Dui-shu (152)
Study on the color-protecting technology of black wheat	KANG Zhi-min FAN Yun-qian ZHANG Kang-yi (157)