

## 目 次

- 乙烯利和氮肥对玉米基部节间性状和抗折断力的调控研究  
 ..... 叶德练 王庆燕 张钰石 李建民 段留生 张明才 李召虎(1)
- 密植和行距配置对夏玉米群体光分布及光合特性的影响  
 ..... 高英波 陶洪斌 黄收兵 田北京 王丽君 李芸 任建宏 王璞(9)
- 玉米播种期水分胁迫及补水对幼苗生长的影响  
 ..... 谢倩 陈冠英 陶洪斌 张萍 周楠 任伟 王璞(16)
- 干旱胁迫下不同抗旱性小麦品种产量形成与水分利用特征  
 ..... 吴金芝 王志敏 李友军 张英华(25)
- 苯磺隆和单啮磺隆对张杂谷 10 号光合特性及产量构成的影响  
 ..... 高贞攀 郭平毅 原向阳 董淑琦 刘阳 高虹 宁娜  
 郭美俊 解丽丽 冯雷 王斌强 余凯凯(36)
- 滴水量对春大豆花荚形成及产量的影响 ..... 李春艳 伊力哈木 章建新(46)
- 嫁接对提高棉花耐 NaCl 胁迫的效应  
 ..... 邱爱华 廖小芳 王灿灿 汤丹峰 周步进 陈鹏 周瑞阳(53)
- 陆地棉“洞 A”转录因子 *GhbZIP1* 的克隆及表达分析  
 ..... 李敏 刘冬梅 廖小芳 汤丹峰 陈鹏 周瑞阳(61)
- 马铃薯 T-DNA 插入拷贝数的检测及对农艺性状的影响研究 ..... 石建斌 杨永智 王舰(68)
- 新疆桃花柱 *S-RNase* 和花粉 *SFB* 基因的克隆与分析  
 ..... 陈秋菊 孟冬 李威 顾钊宇 段续伟 袁晖 张懿 李天忠(76)
- 南国梨果实香气形成相关基因 *PuFS* 的克隆与表达分析  
 ..... 冯立国 巴金磊 韦军 孟祥毅 生利霞(84)
- 赤霉素处理对峰后葡萄开花期的影响及其分子机理  
 ..... 唐丁 温腾建 卢龙 常新 胡建芳(92)
- 草莓芽休眠诱导过程中叶生长及相关基因表达变化  
 ..... 于淑梅 贾楠 王忆 吴婷 韩振海 张新忠(99)
- 草莓几丁质酶基因 *FaCh1-FaCh4* 的转录特性及其对干旱胁迫、外施脱落酸及  
 灰霉菌的响应 ..... 王亚 贺绥欢 裴越琳 陶宇道 刘腾 杨泽浩 冷平(108)
- 番茄 *SlMYB12* RNAi 表达载体构建及功能的初步研究  
 ..... 刘琳琳 田荣荣 郭萧 廖雄 王爽 姚丽萍 赵迪 王彦涛 李天红(117)
- 甘蓝 NAC 转录因子 *BoNAC2* 的克隆及表达分析  
 ..... 连蔚然 王晋芳 李殿波 石锦 徐凤凤 曹芸运 赵冰 郭仰东(124)
- 甘蓝纤维素合成酶基因 *BoCesA* 的克隆与序列分析  
 ..... 徐凤凤 向娟 李双桃 石锦 李殿波 连蔚然 赵冰 郭仰东(131)
- 刺萼龙葵对中国玉米产业造成的潜在经济损失评估  
 ..... 吴志刚 方焱 秦萌 秦誉嘉 王聪 赵谈 李志红(138)
- 紫茎泽兰对我国花生生产造成的潜在经济损失评估  
 ..... 方焱 秦萌 李志红 秦誉嘉 王聪 赵谈 吴志刚(146)

|  |  |
|--|--|
| Turbiscan Lab 分散稳定性分析仪研究异丙甲草胺水乳剂物理稳定性<br>..... | 冯建国 郁倩瑶 史雅丽 项盛 吴学民(152)                    |
| 杀菌剂防治水稻病害田间药效试验区域布局研究<br>.....                 | 况卫刚 朱春雨 高淑梅 付俊瑞 岳鑫璐 李健强(160)               |
| 柴胡提取物对热应激奶牛营养物质表观消化率和瘤胃发酵参数的影响<br>.....        | 侍宝路 郑楠 张养东 范彩云 张幸开 王秀敏<br>秦俊杰 张运海 程建波(169) |
| 如皋黄鸡选育群 105 日龄体重遗传力及近交参数分析<br>.....            | 郭军 王克华 曲亮 沈曼曼 窦套存 胡玉萍(175)                 |
| 日粮 NDF 水平对妊娠母兔繁殖性能、血清生化指标及激素的影响<br>.....       | 晁洪雨 井文倩 夏春峰 李福昌(181)                       |
| 青海湖流域小泊湖湿地土壤微生物数量及影响因子<br>.....                | 王恒生 刁治民 陈克龙 王文颖 张玉珍 王记明 毛亚辉(189)           |
| 调亏滴灌对土壤水盐分布与河套蜜瓜产量的影响<br>.....                 | 蒋光昱 杨培岭 任树梅 贺新 俞昊良 郑凤杰(198)                |
| 黄淮海平原水盐调控灌排一体化渠系规划与设计<br>.....                 | 张文超 李法虎 时学双 吕威(205)                        |
| 我国五大粮食主产区农业抗旱能力评价的敏感性分析.....                   | 康蕾 张红旗(214)                                |
| 中国夏秋粮生产化肥施用环境成本估算<br>.....                     | 刘建霞 徐卫华 黄璜 郑华斌 贺慧 姚林 陈灿(225)               |
| 模拟降水量条件下不同种植方式集雨效应研究<br>.....                  | 任永峰 赵沛义 李彬 妥德宝 贾有余 安昊(233)                 |
| 灌溉造纸废水对模拟芦苇湿地土壤中镁离子含量的影响.....                  | 周芳 苏芳莉 李海福(240)                            |
| 低盐腌制对生鲜草鱼片冷藏过程中品质变化的影响<br>.....                | 汪之颖 陈静茹 陈可欣 罗永康(249)                       |
| 群体感应信号肽介导的产细菌素乳杆菌在发酵肠中的应用<br>.....             | 李军 张旭 马长伟 李平兰(256)                         |
| 基于 PCA 和 BP 神经网络的万寿菊黑斑病孢子识别<br>.....           | 刘惠 冀荣华 祁力钧 马伟 高春花(263)                     |
| 4U-1400 马铃薯联合收获机分离输送装置的分析与试验<br>.....          | 陆祥辉 王昕 张文杰 史明明 魏宏安(269)                    |
| 链夹式移栽机立苗机理分析与试验.....                           | 袁文胜 金诚谦 吴崇友 胡敏娟(277)                       |
| 中国商业性和合作制农村金融机构效率比较.....                       | 鞠荣华 许云霄(282)                               |
| 养猪企业环境行为影响因素实证研究<br>.....                      | 邬兰娅 齐振宏 李欣蕊 朱萌 曹丽红 唐素云(290)                |
| 劳动力成本上升背景下油菜生产发展方式转型研究<br>.....                | 尹朝静 范丽霞 李谷成 吴丽丽(297)                       |

(卷终)

## CONTENTS

- Study of ethephon and nitrogen rate in regulating the basal internode characteristics and breaking resistance of maize ..... YE De-lian, WANG Qing-yan, ZHANG Yu-shi, LI Jian-min, DUAN Liu-sheng, ZHANG Ming-cai, LI Zhao-hu (1)
- Effects of high planting density and row spacing on canopy light distribution and photosynthetic characteristics of summer maize ..... GAO Ying-bo, TAO Hong-bin, HUANG Shou-bing, TIAN Bei-jing, WANG Li-jun, Li Yun, REN Jian-hong, WANG Pu (9)
- Effects of drought and irrigation after sowing on maize seedling growth ..... XIE Qian, CHEN Guan-ying, TAO Hong-bin, ZHANG Ping, ZHOU Nan, Ren Wei, WANG Pu (16)
- Characteristics of yield formation and water use in different drought tolerance cultivars of winter wheat under drought stress ..... WU Jin-zhi, WANG Zhi-min, LI You-jun, ZHANG Ying-hua (25)
- Effects of Tribenuron-methyl and Monosulfuron application on photosynthetic characteristics and yield of Zhangza Gu 10 ..... GAO Zhen-pan, GUO Ping-yi, YUAN Xiang-yang, DONG Shu-qi, LIU Yang, GAO Hong, NING Na, GUO Mei-jun, XIE Li-li, FENG Lei, WANG Bin-qiang, YU Kai-kai (36)
- Effects of different quantities of drip irrigation on flowers pods and yield of spring soybean ..... LI Chun-yan, YI Li-ha-mu, ZHANG Jian-xin (46)
- Effect of grafting on improving cotton's resistance to NaCl stress ..... QIU Ai-hua, LIAO Xiao-fang, WANG Can-can, TANG Dan-feng, ZHOU Bu-jin, CHEN Peng, ZHOU Rui-yang (53)
- Cloning and expression analysis of a novel transcription factor *GhbZIP1* discovered in upland cotton ..... LI Min, LIU Dong-mei, LIAO Xiao-fang, TANG Dan-feng, CHEN Peng, ZHOU Rui-yang (61)
- Transgene copy number detection and effects on traits of potato (*Solanum tuberosum*) ..... SHI Jian-bin, YANG Yong-zhi, WANG Jian (68)
- Cloning and analysis of *S-RNase* and *SFB* genes in Xinjiang peach (*Prunus ferganensis* Kost. et Riab) ..... CHEN Qiu-ju, MENG Dong, LI Wei, GU Zhao-yu, DUAN Xu-wei, YUAN Hui, ZHANG Yi, LI Tian-zhong (76)
- Cloning and expression analysis of *PuFS* gene related to aromatic constituents biosynthesis in *Pyrus ussuriensis* 'Nanguo' fruit ..... FENG Li-guo, BA Jin-lei, WEI Jun, MENG Xiang-yi, SHENG Li-xia (84)
- Effects of gibberellin treatment on flowering-time of 'Fenghou' grapevine and its molecular mechanisms ..... TANG Ding, WEN Teng-jian, LU Long, CHANG Xin, HU Jian-fang (92)
- Changes in leaf growth and related gene expressions during bud dormancy induction in strawberry ..... YU Shu-mei, JIA Nan, WANG Yi, WU Ting, HAN Zhen-hai, ZHANG Xin-zhong (99)
- Transcription characterization of *FaChl-FaChi4* and their responses to drought stress, exogenous abscisic acid and *Botrytis cinerea* in strawberry fruit ..... WANG Ya, HE Sui-huan, PEI Yue-lin, TAO Yu-xiao, LIU Teng, YANG Ze-hao, LENG Ping (108)
- Construction of *SIMYB12* RNAi expression vector and functional analysis in tomato ..... LIU Lin-lin, TIAN Rong-rong, GUO Xiao, LIAO Xiong, WANG Shuang, YAO Li-ping, ZHAO Di, WANG Yan-tao, LI Tian-hong (117)
- Cloning and expression analysis of NAC transcription factor gene *BoNAC2* in *Brassica oleracea* L. .... LIAN Wei-ran, WANG Jin-fang, LI Dian-bo, SHI Jin, XU Feng-feng, CAO Yun-yun, ZHAO Bing, GUO Yang-dong (124)
- Cloning and sequence analysis of the *BoCesA* gene in *Brassica oleracea* L. .... XU Feng-feng, XIANG Juan, LI Shuang-tao, SHI Jin, LI Dian-bo, LIAN Wei-ran, ZHAO Bing, GUO Yang-dong (131)
- Potential economic loss assessment on maize industry of China caused by buffalobur (*Solanum Rostratum*) ..... WU Zhi-gang, FANG Yan, QIN Meng, QIN Yu-jia, WANG Cong, ZHAO Tan, LI Zhi-hong (138)

- Potential economic impact of *Ageratina adenophora* (Spreng.) on peanut industry in China  
 ..... FANG Yan, QIN Meng, LI Zhi-hong, QIN Yu-jia,  
 WANG Cong, ZHAO Tan, WU Zhi-gang (146)
- Study on the physical stability of metolachlor emulsion oil in water by Turbiscan Lab analyzer  
 ..... FENG Jian-guo, YU Qian-yao, SHI Ya-li, XIANG Sheng, WU Xue-min (152)
- Location analysis for fungicides efficacy trials to prevent major diseases of rice  
 ..... KUANG Wei-gang, ZHU Chun-yu, GAO Shu-mei, FU Jun-rui,  
 YUE Xin-lu, LI Jian-qiang (160)
- Effect of bupleurum extract on nutrient apparent digestibility and rumen fermentation parameters  
 in heat-stressed Holstein dairy cows  
 ..... SHI Bao-lu, ZHENG Nan, ZHANG Yang-dong, FAN Cai-yun, ZHANG Xing-kai,  
 WANG Xiu-min, QIN Jun-jie, ZHANG Yun-hai, CHENG Jian-bo (169)
- Estimation on inbreeding parameters and heritability of 105 days-old body weight in Rugao Yellow  
 Chickens ..... GUO Jun, WANG Ke-hua, QU Liang, SHEN Man-man, DOU Tao-cun, HU Yu-ping (175)
- Effects of dietary NDF levels on reproductive performance, serum biochemical indices and  
 hormone levels of gestating rabbits  
 ..... CHAO Hong-yu, JING Wen-qian, XIA Chun-feng, LI Fu-chang (181)
- Quantity of soil microbe and affecting factors of Xiaopohu Wetlands in Qinghai Lake Basin  
 ..... WANG Heng-sheng, DIAO Zhi-min, CHEN Ke-long, WANG Wen-ying,  
 ZHANG Yu-zhen, WANG Ji-ming, MAO Ya-hui (189)
- Effect of regulated deficit irrigation on soil water-salt distribution and fruit yield of Hetao  
 muskmelon under drip irrigation ..... JIANG Guang-yu, YANG Pei-ling, REN Shu-mei,  
 HE Xin, YU Hao-liang, ZHENG Feng-jie (198)
- Planning and design of integrated irrigation and drainage system on soil water and salinity control in  
 Huang-Huai-Hai Plain, China ..... ZHANG Wen-chao, LI Fa-hu, SHI Xue-shuang, LÜ Wei (205)
- Sensitivity analysis of agriculture drought resistance in five main grain producing areas in China  
 ..... KANG Lei, ZHANG Hong-qi (214)
- Estimation of environmental cost of chemical fertilizer usage in China's summer & autumn  
 grain production ..... LIU Jian-xia, XU Wei-hua, HUANG Huang,  
 ZHENG Hua-bin, HE Hui, YAO Lin, CHEN Can (225)
- Effects of different planting methods on rainwater accumulation under simulated rainfall conditions  
 ..... REN Yong-feng, ZHAO Pei-yi, LI Bin, TUO De-bao, JIA You-yu, AN Hao (233)
- Effects of irrigation with papermaking wastewater on magnesium ions in simulated reed wetland soil  
 ..... ZHOU Fang, SU Fang-li, LI Hai-fu (240)
- Effect of low salt on the quality changes of raw grass carp (*Ctenopharyngodon idellus*) fillets  
 during chilled storage ..... WANG Zhi-ying, CHEN Jing-ru, CHEN Ke-xin, LUO Yong-kang (249)
- Lactobacillus paraplantarum* producing AIP-regulated bacteriocin as starter cultures for fermented  
 sausages ..... LI Jun, ZHANG Xu, MA Chang-wei, LI Ping-lan (256)
- Spores of marigold black spot identification based on PCA and BP neural network  
 ..... LIU Hui, JI Rong-hua, QI Li-jun, MA Wei, GAO Chun-hua (263)
- Parameter analysis and experiment for separation conveyer of 4U-1400 type potato harvester  
 ..... LU Xiang-hui, WANG Xin, ZHANG Wen-jie, SHI Ming-ming, WEI Hong-an (269)
- Theoretical analysis and experiments of transplanting mechanism of chain-clamp transplanter for  
 rapeseed seedlings ..... YUAN Wen-sheng, JIN Cheng-qian, WU Chong-you, HU Min-juan (277)
- Efficiency comparison between commercial and cooperative rural financial institutions in China  
 ..... JU Rong-hua, XU Yun-xiao (282)
- An empirical research of influencing factors of pig farming enterprise's environmental behavior  
 ..... WU Lan-ya, QI Zhen-hong, LI Xin-rui, ZHU Meng, CAO Li-hong, TANG Su-yun (290)
- Research on the transformation of rape production mode as the growth of labor cost  
 ..... YIN Chao-jing, FAN Li-xia, LI Gu-cheng, WU Li-li (297)