

## 目 次

利用转录组测序鉴定玉米白色籽粒突变基因 *PDS*

..... 付修义 殷鹏飞 季生辉 贾博森 许静 杨小红(1)

AquaCrop 模型在华北平原黑龙港流域典型区冬小麦-夏玉米种植模式上的适用性评价

..... 韩桐 赵悦航 黄晶 王冲 艾细魁 陈阜 褚庆全(10)

河套灌区地膜春小麦适宜播种量研究 ..... 白岗栓 邹超煜 杜社妮 张俊生 任志宏(18)

糜子籽粒形成过程中蛋白质、淀粉积累与相关合成酶特性

..... 陈光华 韩浩坤 马洪驰 党科 王孟 杨璞 冯佰利(28)

不同密度和行距配置对工业大麻生长及产量的影响

..... 高金虎 赵铭森 冯旭平 孔佳茜 孟晓康 吴昌娟 康红梅(37)

宁夏回族自治区扬黄灌区密植高产玉米磷素吸收利用特征及适宜用量分析

..... 郭鑫年 金鑫 马洪涛 陈刚 纪立东 梁锦秀 周涛(44)

基于 GIS 的陕西省蓝莓栽培潜在适生区 ..... 秦公伟 林宏辉 张静 付恒阳(53)

重瓣榆叶梅花中黄酮的提取、动态含量及抗氧化活性测定 ..... 李怡华 陈媛梅(64)

转基因生物食用安全评价技术体系及其发展趋势 ..... 祁潇哲 贺晓云 黄昆仑(71)

牦牛基因组和转录组研究进展 ..... 马志杰(79)

青年种公牛阴囊表面温度与精液品质关系初探

..... 徐伟 朱子岳 刘澳星 刘林 王雅春(87)

酸浆叶茶对四氧嘧啶引起小鼠糖尿病的降血糖作用

..... 刘志宗 乔元虹 王晓闻 陈锋(97)

稀土壳糖胺螯合盐对热应激肉鸡生长性能和肉品质的影响

..... 王菊花 刘琦 董静 王佳明 刘丹丹 周杰 薛秀恒(104)

日光温室夜间后墙不同高度放热量差异的理论分析

..... 张传坤 魏珉 刘福胜 徐平丽 李岩(112)

果园秸秆覆盖机设计与试验	徐少杰	朱新华	王东阳	(122)		
香蕉采摘机械的研究现状与发展趋势	苏继龙	刘远力	吴金东	(131)		
基于 LSP 与 GLCM 融合的禾本科牧草种子特征提取算法						
——	陈桐	潘新	马玉宝	闫伟红(138)		
中国省域耕地生态承载力供需平衡状况	王锦	郝晋珉	陈爱琪	王楠(146)		
耕地利用强度评价方法的县域休耕适用性						
——以曲周县为例	牛家恒	江丽	陈鑫	丁晨阳	安萍莉(156)	
农业机械化水平对农户市场化程度的影响						
——基于人均基本需求农地的门限效应分析	彭继权	吴海涛	谭昶	李孟丁(167)		
中国农作物秸秆禁烧管理与效果	覃诚	毕于运	高春雨	王亚静	周珂	王莹(181)
汇率变化对我国农业产业的影响						
——基于农业部门局部均衡模型	王静怡	张玉梅	陈志钢(190)			
新时期畜禽产业链组织模式与机制	程华	卢凤君	刘晴(206)			
陕西省渭北苹果主产区的农业可持续发展评价						
——以洛川、旬邑与白水县为例	邢磊	杨世琦	刘宏元(213)			
基于 EEMD 视角的农业保险与农业信贷互动绩效						
——以山东省为例	苑美琪	陶建平(223)				

## CONTENTS

Identification of *PDS* for white kernels in maize via RNA-seq

..... FU Xiuyi, YIN Pengfei, JI Shenghui, JIA Bosen, XU Jing, YANG Xiaohong (1)

Applicability evaluation of AquaCrop model for winter wheat & summer maize cropping

system in the Heilonggang River Valley ..... HAN Tong, ZHAO Yuehang, HUANG Jing, WANG Chong, AI Xikui, CHEN Fu, CHU Qingquan (10)

Research on suitable seeding rate of spring wheat with film mulching in Hetao irrigated area

..... BAI Gangshuan, ZOU Chaoyu, [DU Shen], ZHANG Junsheng, REN Zhihong (18)

Characteristics of protein and starch accumulation and the dynamic changes of key enzymes

during grain filling of proso millet (*Panicum miliaceum* L.) ..... CHEN Guanghua,

HAN Haokun, MA Hongchi, DANG Ke, WANG Meng, YANG Pu, FENG Baili (28)

Effects of planting density and row spacing on the growth and yield of industrial hemp

..... GAO Jinhu, ZHAO Mingsen, FENG Xuping, KONG Jiaqian, MENG Xiaokang, WU Changjuan, KANG Hongmei (37)

Phosphorus absorption, utilization characteristics and suitable application rate of

high-density maize in Ningxia Yellow River irrigation area ..... GUO Xinnian, JIN Xin, MA Hongtao, CHEN Gang, JI Lidong, LIANG Jinxiu, ZHOU Tao (44)

Potential suitable planting area of blueberry based on GIS in Shaanxi Province

..... QIN Gongwei, LIN Honghui, ZHANG Jing, FU Hengyang (53)

Extraction, dynamic content and antioxidant activity of flavonoids determination in *Prunus triloba*

f. *multiplex* flowers and its antioxidation property ..... LI Yihua, CHEN Yuanmei (64)

Food safety assessment technology system of genetically modified organisms and

its development trend ..... QI Xiaoze, HE Xiaoyun, HUANG Kunlun (71)

Research progress of the genome and transcriptome of yak ..... MA Zhijie (79)

Preliminary study on the relationship between young breeding bulls' scrotal

surface temperature and semen quality

..... XU Wei, ZHU Ziyue, LIU Aoxing, LIU Lin, WANG Yachun (87)

Hypoglycemic effect of physalins leaf tea on diabetic mice induced by alloxan

..... LIU Zhizong, QIAO Yuanhong, WANG Xiaowen, CHEN Feng (97)

Effects of rare earth-chitosan chelate on the growth performance and

meat quality of yellow-feathered broilers under heat stress ..... WANG Juhua,

LIU Qi, DONG Jing, WANG Jiaming, LIU Dandan, ZHOU Jie, XUE Xiuheng (104)

- Theoretical analysis on the heat-releasing volume differences of back walls at different heights in solar greenhouse at night ..... *ZHANG Chuankun,WEI Min,LIU Fusheng,XU Pingli,LI Yan*(112)
- Design and experiment on straw mulching machine in arid orchards ..... *XU Shaojie,ZHU Xinhua,WANG Dongyang*(122)
- Research status and development trend of banana picking machine ..... *SU Jilong,LIU Yuanli,WU Jindong*(131)
- Seed feature extraction algorithm of Gramineous grass based on the fusion of LSP and GLCM ..... *CHEN Tong,PAN Xin,MA Yubao,YAN Weihong*(138)
- Supply and demand balance of ecological carrying capacity in provincial arable land of China ..... *WANG Jin,HAO Jinmin,CHEN Aiqi,WANG Nan*(146)
- Fallow applicability of cropland use intensity assessment methods in county level:  
A case study of Quzhou County ..... *NIU Jiaheng,JIANG Li,CHEN Xin,DING Chenyang,AN Pingli*(156)
- Influence of agricultural mechanization level on farmers' marketization:  
The threshold effect of agricultural land based on per capita basic needs ..... *PENG Jiquan,WU Haitao,TAN Chang,LI Mengding*(167)
- Management and effect of straw burning prohibition in China ..... *QIN Cheng,BI Yuyun,GAO Chunyu,WANG Yajing,ZHOU Ke,WANG Ying*(181)
- Impacts of exchange rate change on China's agricultural sector:  
Base on agricultural partial equilibrium model ..... *WANG Jingyi,ZHANG Yumei,CHEN Zhigang*(190)
- Pattern and mechanism of livestock and poultry industry chain organization in new period ..... *CHENG Hua, LU Fengjun, LIU Qing*(206)
- Evaluation of agricultural sustainable development in main apple production areas in WeiBei, Shaanxi Province: Taking Luochuan, Xunyi and Baishui County as examples ..... *XING Lei,YANG Shiqi,LIU Hongyuan*(213)
- Interaction performance between agricultural insurance and agricultural credit based on EEMD analysis: Taking Shandong Province as an example ..... *YUAN Meiqi,TAO Jianping*(223)