

目 次

玉米杂交当代籽粒含水率遗传效应研究…………… 陈明 陈琛 刘晨旭 李伟 李金龙
 焦炎炎 张垚 程德荷 刘文欣 陈绍江(1)

灌水量和滴灌频率对甘肃省河西地区春玉米生长和水分利用的影响
 …………… 李菊 张富仓 王艳丽 赖珍林 李越鹏 严富来 王海东 郭金金(8)

甜玉米小斑病抗性主效 QTL 挖掘
 …………… 蒋锋 陈趣 陈青春 张姿丽 孙伟 王晓明 刘鹏飞(21)

播期对冬播春麦品种生育进程及产量品质的影响
 …………… 王铜 李磊 汪晓东 薛丽华 章建新 苏文平 王欢(28)

丛枝菌根真菌侵染指标与植物促生效应相关性分析
 …………… 李侠 叶诚诚 张俊伶 李海港 王幼珊(41)

生物降解地膜的性能及在北京鲜食玉米和甘薯生产上的应用
 …………… 梅丽 董雯怡 周继华 刘勤 宋慧欣 王俊英(54)

基于转录组的苋菜 *LBD* 基因家族鉴定及蓝光下的表达分析
 …………… 王乐 陈何 肖昉 郑友峰 黄瑞丹 刘生财(66)

咖啡短体线虫不同种群对番茄的寄生性和致病性
 …………… 李宇 赵湘媛 宋莹莹 孙梦茹 夏艳辉 袁虹霞 李洪连 王珂(81)

西葫芦种子结构与发芽的关系以及提高种子质量的处理技术
 …………… 王德欣 吴萍 季延海 钟启文 宋顺华 张海军 刘明池 李海真(90)

对不同品种蚕豆芽苗菜生长期产量、品质及相关性的研究
 …………… 白雅晖 虞慧彬 徐晓东 武永军 杨振超(98)

瞬时弹射式蒸汽爆破对玉米秸秆微贮营养成分和牛瘤胃营养物质消失率的影响
 …………… 杨森 段旭磊 裴亚欣 张海旭 陈想 梁婷婷 宋安东 陈红歌(108)

自渗牛床表层垫料对夏季奶水牛站立与躺卧行为的影响
 …………… 普金徽 覃李坤 顾招兵 毛华明 郭露露 张富兰 刘平 李林(118)

新型复合氨基酸络合铁对肉鸡生产性能、血液指标和组织铁含量的影响	傅鑫森 韩苗苗 董元洋 苗志强 张俊珍 杨玉 李慧锋 冯焱 魏清宇 张炳坤 冀飞 李建慧(126)
EGCG 对急性热应激肉鸡抗氧化能力的影响	张成 赵菲 李煊 张勇 王驰 耿照玉(139)
基于 Lab 颜色空间下的小麦赤霉病图像分割	许高建 沈杰 徐浩宇(149)
小米硒含量近红外预测模型的建立与评价	王浩 于港华 侯颖 侯思宇 韩渊怀 李红英 邢国芳(157)
大气环境中二甲基硫的研究进展.....	李云哲 唐傲寒 刘学军(164)
基于核密度估计的拖拉机传动轴载荷外推方法	李淑艳 翟友邦 王小龙 李若晨 杨子涵 宋正河(175)
农机作业服务研究述评.....	薛信阳 韩一军(185)
中国农村产业融合发展研究现状与展望 ——基于 CiteSpace 文献计量分析	覃诚 方向明 陈典(198)
南方丘陵区农村居民点离散度时空演变及其影响因素 ——以江西省鹰潭市为例.....	吴俊 郭熙 傅聪颖 朱青(209)
畜牧业产业集聚对县域经济增长的影响 ——黑龙江省例证.....	许佳彬 李翠霞(223)
农村空心化对农业技术进步的影响 ——劳动节约型还是土地节约型	张园 陈玉萍 丁士军(237)
非农就业、基本社会保险选择对宅基地流转的影响 ——基于 2017 年 CRHPS 追踪调查数据的实证研究	许恒周 邢新泽(250)
考虑批次的可追溯食品冷链中污染源定位与追踪.....	曾小青 李静茹 李澈(264)

CONTENTS

- Current generation genetic effect of the kernel moisture content in maize
..... CHEN Ming, CHEN Chen, LIU Chenxu, LI Wei, LI Jinlong, JIAO Yanyan,
ZHANG Yao, CHENG Dehe, LIU Wenxin, CHEN Shaojiang (1)
- Effects of irrigation amount and drip irrigation frequency on spring maize growth and
water use in Hexi area of Gansu Province
..... LI Ju, ZHANG Fucang, WANG Yanli, LAI Zhenlin,
LI Yuepeng, YAN Fulai, WANG Haidong, GUO Jinjin (8)
- Major QTL mapping for southern leaf blight resistance in sweet corn
..... JIANG Feng, CHEN Qu, CHEN Qingchun, ZHANG Zili,
SUN Wei, WANG Xiaoming, LIU Pengfei (21)
- Effect of sowing date on growth characteristics and yield and quality of spring wheat
varieties sowing in winter WANG Tong, LI Lei, WANG Xiaodong,
XUE Lihua, ZHANG Jianxin, SU Wenping, WANG Huan (28)
- Correlation analysis between arbuscular mycorrhizal fungi colonization indices and
plant growth promoting effect
..... LI Xia, YE Chengcheng, ZHANG Junling, LI Haigang, WANG Youshan (41)
- Performance of biodegradable films and their application on fresh corn and
sweet potato production in Beijing
..... MEI Li, DONG Wenyi, ZHOU Jihua, LIU Qin, SONG Huixin, WANG Junying (54)
- Identification of *LBD* gene family in *Amaranthus tricolor* L. based on transcriptome and
expression analysis under blue light WANG Le, CHEN He, XIAO Fang,
ZHENG Youfeng, HUANG Ruidan, LIU Shengcai (66)
- Parasitism and pathogenicity of five populations of *Pratylenchus coffeae* to *Solanum lycopersicum*
..... LI Yu, ZHAO Xiangyuan, SONG Yingying, SUN Mengru, XIA Yanhui,
YUAN Hongxia, LI Honglian, WANG Ke (81)
- Relationship between seed structure and germination and the seed treatment technology to
improve seed quality in zucchini (*Cucurbita pepo* L.)
..... WANG Dexin, WU Ping, JI Yanhai, ZHONG Qiwen, SONG Shunhua,
ZHANG Haijun, LIU Mingchi, LI Haizhen (90)
- Study on the yield, quality and correlation of different varieties of broad bean
sprouts during the growth period
..... BAI Yahui, YU Huibin, XU Xiaodong, WU Yongjun, YANG Zhenchao (98)
- Effect of ICSE on nutritional components of corn stover and rumen reduction rate in cow rumen
..... YANG Sen, DUAN Xulei, PEI Yaxin, ZHANG Haixu, CHEN Xiang,
LIANG Tingting, SONG Andong, CHEN Hongge (108)

- Effects of surface materials above self-draining beds on standing and lying behaviors of dairy buffalo in summer *PU Jinhui, QIN Likun, GU Zhaobing, MAO Huaming, GUO Lulu, ZHANG Fulan, LIU Ping, LI Lin*(118)
- Effect of new complex amino acid chelated iron on broiler performance, blood index and tissue iron content *FU Xinsen, HAN Miaomiao, DONG Yuanyang, MIAO Zhiqiang, ZHANG Junzhen, YANG Yu, LI Hui Feng, FENG Yan, WEI Qingyu, ZHANG Bingkun, JI Fei, LI Jianhui*(126)
- Effects of EGCG on antioxidant capacity of acute heat-stressed broilers *ZHANG Cheng, ZHAO Fei, LI Yang, ZHANG Yong, WANG Chi, GENG Zhaoyu*(139)
- Image segmentation of wheat scab based on Lab color space *XU Gaojian, SHEN Jie, XU Haoyu*(149)
- Establishment and evaluation of near-infrared prediction model for selenium content in millet *WANG Hao, YU Ganghua, HOU Ying, HOU Siyu, HAN Yuanhuai, LI Hongying, XING Guofang*(157)
- Research progress on dimethyl sulfur in atmospheric environment *LI Yunzhe, TANG Aohan, LIU Xuejun*(164)
- An extrapolation method of tractor propeller shaft load based on kernel density estimation *LI Shuyan, ZHAI Youbang, WANG Xiaolong, LI Ruochen, YANG Zihan, SONG Zhenghe*(175)
- Research review on agriculture machinery operation services *XUE Xinyang, HAN Yijun*(185)
- Research status and prospects of rural industrial integration in China:
An bibliometric analysis based on CiteSpace *QIN Cheng, FANG Xiangming, CHEN Dian*(198)
- Spatial-temporal evolution and impact factors of rural settlements dispersion in the hilly region of Southern China: A case study of Yingtan City, Jiangxi Province *WU Jun, GUO Xi, FU Congying, ZHU Qing*(209)
- Impacts of animal husbandry industry agglomeration on county economic growth:
A case study of Heilongjiang Province *XU Jiabin, LI Cuixia*(223)
- Impacts of rural hollowing on technological advance:
Labor-saving technology or land-saving technology *ZHANG Yuan, CHEN Yuping, DING Shijun*(237)
- Influence of non-agricultural employment and basic social insurance choices on the circulation of homestead: An empirical study based on the 2017 CRHPS tracking survey data *XU Hengzhou, XING Xinze*(250)
- Source locating and diffusion tracking of contamination in traceable food cold chain by considering batches information *ZENG Xiaoqing, LI Jingru, LI Che*(264)