

目 次

基于 MaxEnt 模型的中国裸燕麦种植气候适宜性评价
 薄晓智 石晓宇 赵炯超 林倩 史梦霞 商蒙非 褚庆全(1)

苗期短光照对三系杂交大豆及亲本育性的影响 白志元 杨玉花 张瑞军(11)

长期施肥方式对双季稻根系生理特性与产量的影响
 石丽红 李超 唐海明 文丽 李微艳 肖小平 程凯凯 刘曲 程爱武(18)

中国农作物秸秆产量及综合利用现状分析
 张晓庆 王梓凡 参木友 白海花 塔娜(30)

河南省优质小麦适宜种植区及未来变化趋势 余卫东 杨君健(42)

安徽省中南部小麦赤霉病气象等级预报方法研究
 岳伟 陈曦 邱坤 王蓓蓓 邓斌 姚卫平(52)

最热(冷)月时段温度作为农业种植区划指标的探讨 马振玉 姜会飞(63)

硝磺草酮抗性菌株的筛选及抗性 *hppd* 基因的克隆表达 张磊 李林(74)

氮质量浓度对盆栽小菊‘东篱秋心’干物质和养分吸收的影响
 邱丹丹 杨秀珍 董南希 李清清 戴思兰(84)

基于 SLAF-BSA 技术的蝴蝶兰花底色关联 SNP 分子标记开发与验证
 肖文芳 李佐 陈和明 吕复兵(92)

LED 脉冲光对生菜叶绿素荧光参数的影响
 梅延豪 刘齐 李琦 虞慧彬 白雅晖 徐晓东 武永军 杨振超(101)

新疆地区牛分枝杆菌 29 个毒力基因的突变分析
 董玉慧 罗力嘉 李梦莹 欧喜超 刘春法 范伟兴 赵雁林 周向梅(110)

MIF 在不同直径猪卵泡的表达变化规律 陈彦宏 曾申明(118)

饲料中添加复合益生菌对猪生长、粪便菌群及代谢产物的影响
 赵彦光 张斌 相德才 刘韶娜(124)

麦麸阿魏酰低聚糖对大鼠肝脏抗氧化功能的影响
 王文文 段元霄 王园 孟子琪 安晓萍 齐景伟(137)

金黄色葡萄球菌 SSL7 蛋白对补体系统的作用分析

..... 邓亦宁 张云科 王朋朋 田欣睿 焦晓宇 吴文学(146)

基于文献计量的全球农用无人机研发应用比较..... 李红军 何雄奎 宋坚利 杨苾(154)

基于高速摄影技术穴盘苗抛投运动试验与分析

..... 曾繁地 李旭英 李祥 苏强 张永志(168)

基于微波反射法的冬笋探测器设计..... 王俊楠 吕艳 倪忠进 黄政晖 倪益华(177)

利用牛粪生产垫料的滚筒结构优化..... 王盼柳 曹哲 李浩 施正香 刘中珊(189)

基于 OpenFOAM 的猪体空气阻力系数模拟计算 吴雪飞 李浩 施正香(197)

经济转型背景下城市土地城镇化格局及影响因素

——以长江经济带城市为例..... 张立新 段文凯(206)

基于农地确权数据的流转土地价格与农村人口的空间关系

——以观音滩镇为例..... 薛春璐 裴志远 郭琳(216)

服务外包、契约选择对小麦生产技术效率的影响

——基于河南省 100 个村 3 305 个农户的实证分析

..... 朱丽娟 顾冬冬 张扬 张改清(231)

基于多国数据的食物消费聚类与演化分析..... 沈辰 沈国际 吴建寨 穆月英(244)

区块链赋能食品供需网创新追溯模式..... 何静 胡鑫月(257)

中国羊肉进口需求

——基于产品属性的视角..... 李若琦 付文阁(266)

留守经历对农村儿童长期发展影响的研究进展..... 王亚军 郑晓冬 方向明(277)

CONTENTS

- Climatic suitability of naked oat (*Avena Nuda* L.) planting in China based on MaxEnt model
..... BO Xiaozhi, SHI Xiaoyu, ZHAO Jiongchao, LIN Qian,
SHI Mengxia, SHANG Mengfei, CHU Qingquan (1)
- Effects of short light at seedling stage on fertility of three-line hybrid soybean and its parents
..... BAI Zhiyuan, YANG Yuhua, ZHANG Ruijun (11)
- Effects of different long-term fertilizer management on physiological characteristic of
root and yield of rice in double-cropping rice paddy field
..... SHI Lihong, LI Chao, TANG Haiming, WEN Li, LI Weiyan,
XIAO Xiaoping, CHENG Kaikai, Liu Qu, CHENG Airwu (18)
- Analysis of yield and current comprehensive utilization of crop straws in China
..... ZHANG Xiaoqing, WANG Zifan, Cannuyou, BAI Haihua, Tana (30)
- Suitable planting region of high-quality wheat and future developing trend in Henan Province
..... YU Weidong, YANG Junjian (42)
- Research on the method of meteorological grade forecast of wheat scab in
south central of Anhui Province
..... YUE Wei, CHEN Xi, QIU Kun, WANG Beibei, DENG Bin, YAO Weiping (52)
- Discussion on the duration of the hottest or coldest month as crop planting zoning index
..... MA Zhenyu, JIANG Hui fei (63)
- Isolation of mesotrione-resistant strain and cloning and expression of its *hppd*
..... ZHANG Lei, LI Lin (74)
- Effect of nitrogen mass concentration on dry matter and nutrient uptake of
potted chrysanthemum ‘Dong Li Qiu Xin’
..... QIU Dandan, YANG Xiuzhen, DONG Nanxi, LI Qingqing, DAI Silan (84)
- Identification and validation of single-nucleotide polymorphism markers linked to
flower ground color in *Phalaenopsis* by using combined specific-locus
amplified fragment sequencing and bulked segregant analysis
..... XIAO Wenfang, LI Zuo, CHEN Heming, LV Fubing (92)
- Effect of LED pulsed light on chlorophyll fluorescence parameters of lettuce
..... MEI Yanhao, LIU Qi, LI Qi, YU Huibin, BAI Yahui,
XU Xiaodong, WU Yongjun, YANG Zhenchao (101)
- Mutation analysis of 29 virulence genes of *Mycobacterium bovis* in Xinjiang
..... DONG Yuhui, LUO Lijia, LI Mengying, OU Xichao, LIU Chunfa,
FAN Weixing, ZHAO Yanlin, ZHOU Xiangmei (110)
- Expression of MIF in porcine follicles of different diameters
..... CHEN Yanhong, ZENG Shenming (118)

- Effects of dietary complex probiotics on growth performance, fecal microbiota and metabolite of pigs
 ZHAO Yanguang, ZHANG Bin, XIANG Decai, LIU Shaona (124)
- Effects of wheat bran feruloylated oligosaccharides on antioxidant capacity in rat liver
 WANG Wenwen, DUAN Yuanxiao, WANG Yuan,
 MENG Ziqi, AN Xiaoping, QI Jingwei (137)
- Effects of *Staphylococcus aureus* SSL7 protein on complement system
 DENG Yining, ZHANG Yunke, WANG Pengpeng,
 TIAN Xinrui, JIAO Xiaoyu, WU Wenxue (146)
- Comparison of global R&D of agricultural unmanned aerial vehicle, based on bibliometrics
 LI Hongjun, HE Xiongkui, SONG Jianli, YANG Yi (154)
- Experiment and analysis of high-speed photographic techniques for throwing motion of seedlings
 ZENG Fandi, LI Xuying, LI Xiang, SU Qiang, ZHANG Yongzhi (168)
- Design of winter bamboo shoot detector based on microwave reflection method
 WANG Junnan, LV Yan, NI Zhongjin, HUANG Zhenghui, NI Yihua (177)
- Structure optimization of a drum recycling solid cow manure as bedding
 WANG Panliu, CAO Zhe, LI Hao, SHI Zhengxiang, LIU Zhongshan (189)
- Simulation of air drag coefficient of pig model based on OpenFOAM
 WU Xuefei, LI Hao, SHI Zhengxiang (197)
- Urban land urbanization under the background of economic transformation in
 Yangtze River Economic Belt ZHANG Lixin, DUAN Wenkai (206)
- Spatial relationship between the transferred land price and the rural
 population based on the land ownership data:
 A case study of Guanyintan Town XUE Chunlu, PEI Zhiyuan, GUO Lin (216)
- Impacts of service outsourcing and contract selection on the efficiency of wheat production technology:
 Based on the empirical analysis of 3 305 farmers in 100 villages in Henan Province
 ZHU Lijuan, GU Dongdong, ZHANG Yang, ZHANG Gaiqing (231)
- Cluster and evolution analysis of food consumption based on multi-country data
 SHEN Chen, SHEN Guoji, WU Jianzhai, MU Yueying (244)
- Innovative traceability model of the food supply and demand network enabled by blockchain
 HE Jing, HU Xinyue (257)
- China's sheep meat import demand:
 From the perspective of product attributes LI Ruoqi, FU Wenge (266)
- Research progress on the impact of left-behind experience on rural children's long-term development
 WANG Yajun, ZHENG Xiaodong, FANG Xiangming (277)