

目 次

粮食安全专栏

基于熵权 TOPSIS 模型的中国粮食安全评价及障碍因子诊断 雷勋平 Ronbin QIU(1)

俄乌冲突局势下中东和非洲的粮食安全问题:特征、影响和治理路径
..... 李董林 李春顶 蔡礼辉(15)

托管因素、经营特征对粮农农业生产托管决策的影响 李亚娟 马骥(28)

基于粮食生产安全调控的河套灌区农业水土资源管理 蒋钱正 罗彪 郭萍 武慧(42)

基于科学计量分析的生态资产研究进展
..... 张益宾 李锋 史云扬 段文凯 刘海轩 成超男(59)

秸秆基生物天然气工程的温室气体减排估算
... 周珂 孔维涛 冯新新 王环 SEGLAH Afi Patience 谢杰 孙宁 高春雨(78)

福建省耕地土壤 pH 空间分布及影响因素分析
..... 程金 张思文 黄文卿 张世昌 黄建诚 吴良泉 张江周(90)

基于谷子种质资源表型性状构建骨干种质库
..... 宋慧 臧贺藏 李国强 解慧芳 邢璐 李龙 王素英 刘金荣 郑国清(102)

超声波处理对小麦种子活力影响的转录组分析
..... 刘鹏飞 麦嘉琦 刘君 李坪遥 周捷成 蒋锋(116)

表油菜素内酯对 NaCl 胁迫下马铃薯生长和块茎品质的影响
..... 唐鑫华 孟欣 石忆 高红秀 曲自成 张浩 石瑛(127)

营养液更新频率和方式对基质槽培黄瓜生长和根区盐分累积的影响
..... 桑嘉骏 刘明池 武占会 梁浩 何洪巨 王素娜 季延海(138)

茶园花蓟马种群数量与茶叶中生化物质关系的数学分析
..... 程鸿浩 陈诗燕 吴筱萌 徐悦 张淋 孙佳照 周夏芝 邹运鼎 毕守东(148)

奶牛与肉牛不同生长发育阶段肝脏转录组比较分析
..... 周乐 石彩霞 常晨城 王宇 满达 高静 张文广(158)

| | |
|---|--|
| 绒山羊皮肤全长转录组测序及生物信息学分析..... | 李颖 宋峰 苏德其其格 AKONYANI Zaccheaus Pazamilala 乌兰吐雅 吴江鸿(170) |
| NRTUAs 感染对小鼠的组织荷虫量及脾脏细胞因子转录水平的影响 | 任超 王超越 卢春霞 王思 段春慧 刘贤勇 索勋(180) |
| 蒿属植物提取物对畜禽抗氧化及抗炎功能的研究进展 | 李书仪 史彬林 赵艳丽 闫素梅(189) |
| 柳枝稷与苜蓿的共发酵对厌氧发酵体系产气效率及微生物群落的影响 | 孙宇 刘燕 陈啸天 于海茹 袁旭峰 赵洪颜 崔宗均(200) |
| 基于 YOLOv5 深度学习的茶叶嫩芽估产方法 | 徐海东 马伟 谭彧 刘星星 郑永军 田志伟(213) |
| 铲筛式农田石块捡拾收集机仿真与试验 | 牛丛 邢钰婷 闫成功 谭好超 马帅 徐丽明(221) |
| 马铃薯播种机漏播检测与补种系统的设计与试验 | 雷小龙 邹洪宇 杨正颖 李芋汶 龚静 郑明武 雷怡 张磊 吕小荣(234) |
| 基于联盟链的智能温室群数据共享及决策协同方案..... | 景旭 马蓓(245) |
| 基于动态网络二阶段 DEA 模型的洞庭湖区耕地利用效率研究 | 刘沙沙 蒲金芳 张蚌蚌 王数(257) |
| 农民合作社规制与社员绿色生产行为:激励抑或约束 | 罗磊 乔大宽 刘宇荧 傅新红(270) |
| 《中国农业大学学报》第 27 卷(2022 年)总目次 | (I) |

(卷终)

CONTENTS

Food Security

- Evaluation of food security in China based on entropy TOPSIS model and the diagnosis of its obstacle factors LEI Xunping, Robin QIU(1)
- Food security in the Middle East and Africa under the context of the Russia-Ukraine conflict: Characteristics, implications and governance paths LI Donglin, LI Chunding, CAI Lihui(15)
- Impacts of trusteeship factors and operating characteristics on farmers' agricultural production trusteeship decisions LI Yajuan, MA Ji(28)
- Agricultural water and land resources management in Hetao Irrigation District based on the regulation of food production safety JIANG Qianzheng, LUO Biao, GUO Ping, WU Hui(42)
- Progress and perspectives of ecosystem assets based on scientometrics analysis ZHANG Yibin, LI Feng, SHI Yunyang, DUAN Wenkai, LIU Hai.xuan, CHENG Chaonan(59)
- Estimation of greenhouse gas emission reduction from straw-based bio-natural gas project ZHOU Ke, KONG Weitao, FENG Xinxin, WANG Huan, SEGLAH Afi Patience, XIE Jie, SUN Ning, GAO Chunyu(78)
- Spatial distribution of soil pH and the main driving factors in farmlands of Fujian Province CHENG Jin, ZHANG Siwen, HUANG Wenqing, ZHANG Shichang, HUANG Jiancheng, WU Liangquan, ZHANG Jiangzhou(90)
- Construction of backbone germplasm bank based on the phenotypic traits of foxtail millet SONG Hui, ZANG Hecang, LI Guoqiang, XIE Huifang, XING Lu, LI Long, WANG Suying, LIU Jinrong, ZHENG Guoqing(102)
- Transcriptome analysis on the effects of ultrasonic treatment on wheat seeds vigor LIU Pengfei, MAI Jiaqi, LIU Jun, LI Pingyao, ZHOU Jiecheng, JIANG Feng(116)
- Effects of epibrassinolide on growth and tuber quality of potato under NaCl stress TANG Xinhua, MENG Xin, SHI Yi, GAO Hongxiu, QU Zicheng, ZHANG Hao, SHI Ying(127)
- Effects of nutrient solution renewal frequency and modes on the growth and salt accumulation of cucumber substrate cultivation SANG Jiajun, LIU Mingchi, WU Zhanhui, LIANG Hao, HE Hongju, WANG Suna, JI Yanhai(138)
- Mathematical analysis of the relationship between the population number of *Frankliniella intonsa* in tea garden and biochemical substances in tea CHENG Honghao, CHEN Shiyan, WU Xiaomeng, XU Yue, ZHANG Lin, SUN Jiazhao, ZHOU Xiazhi, ZOU Yunding, BI Shoudong(148)

| | |
|--|--|
| Comparative liver transcriptome analysis of dairy cow and beef cattle at different growth and development stages | <i>ZHOU Le, SHI Caixia, CHANG Chencheng, WANG Yu, MAN Da, GAO Jing, ZHANG Wenguang</i> (158) |
| Sequencing and bioinformatics analysis of the full-length transcriptome of cashmere goat skin | <i>LI Ying, SONG Feng, SU Deqiqige, AKONYANI Zaccheaus Pazamilala, WU Lantuya, Wu Jianghong</i> (170) |
| Impacts of NRTUAs infection on the parasite load and the transcriptional levels of splenic cytokines in mice | <i>REN Chao, WANG Chaoyue, LU Chunxia, WANG Si, DUAN Chunhui, LIU Xianyong, SUO Xun</i> (180) |
| Research progress on the antioxidant, anti-inflammatory of <i>Artemisia</i> plant extracts in livestock and poultry | <i>LI Shuyi, SHI Binlin, ZHAO Yanli, YAN Sumei</i> (189) |
| Effects of co-fermentation of switchgrass and alfalfa on the gas production efficiency and microbial community of anaerobic co-fermentation system | <i>SUN Yu, LIU Yan, CHEN Xiaotian, YU Hairu, YUAN Xufeng, ZHAO Hongyan, CUI Zongjun</i> (200) |
| Yield estimation method for tea buds based on YOLOv5 deep learning | <i>XU Haidong, MA Wei, TAN Yu, LIU Xingxing, ZHENG Yongjun, TIAN Zhiwei</i> (213) |
| Simulation and experiment of shovel-screen type farmland stone picking and collecting machine | <i>NIU Cong, XING Yuting, YAN Chenggong, TAN Haochao, MA Shuai, XU Liming</i> (221) |
| Design and experiment of miss-seeding monitoring and reseeding system for potato seeder | <i>LEI Xiaolong, ZOU Hongyu, YANG Zhengying, LI Yuwen, GONG Jing, ZHENG Mingwu, LEI Yi, ZHANG Lei, LV Xiaorong</i> (234) |
| Scheme of data sharing and decision collaboration of intelligent greenhouse group based on consortium blockchain | <i>JING Xu, MA Bei</i> (245) |
| Cultivated land utilization efficiency in Dongting Lake area: Based on a dynamic network two-stage DEA model | <i>LIU Shasha, PU Jingfang, ZHANG Bangbang, WANG Shu</i> (257) |
| Regulation and green production behavior of farmers' cooperatives: Incentive or constraint | <i>LUO Lei, QIAO Dakuan, LIU Yuying, FU Xinhong</i> (270) |
| Total Contents of China Agricultural University (Vol. 27, 2022) | (I) |

(Volume end)