

ISSN 1671-8151

CN 14-1306/N

JOURNAL OF SHANXI AGRICULTURAL UNIVERSITY

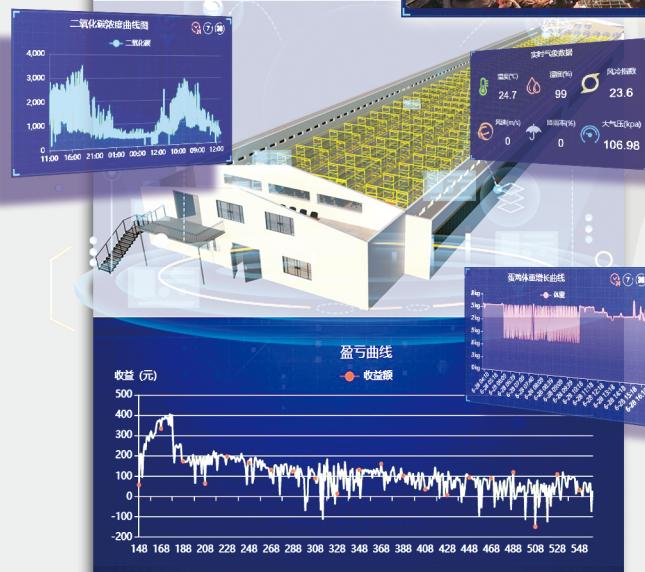
山西農業大學學報

6

自然科學版

NATURAL SCIENCE EDITION

蛋鸡福利化立体散养
智能化大数据平台



2022 第42卷 第6期
Vol.42 No.6

中文核心期刊
中国科技核心期刊
RCCSE 中国核心学术期刊
中国农林核心期刊
2020中国高校优秀科技期刊

目 次

专题:智能化养殖技术与装备(策划:刘振宇)

- 加强养殖业智能化技术与装备研发,推动健康、高效养殖业发展 陆明洲(1)
家禽养殖智能装备与信息化技术研究进展 郑炜超 邓森中 童勤 王阳 李保明 滕光辉(2)
应用Hyperledger Fabric和物联网技术的农产品溯源系统设计 张雅倩 刘江平 陈晨(12)
融合统计学习与深度学习的猪舍环境预测模型 马超凡 谢秋菊 王圣超 李佳龙 郑萍 包军 刘洪贵(24)
羊群体运动元胞自动机模型中的最小势能分析 焦帆 聂丽丽 王瑛 刘振宇(33)
基于EOBL-AO的牛奶脂肪含量预测模型 刘江平 李欣 陈晨(40)
基于物联网的太阳能草捆干燥贮存系统设计 杜建强 李凤鸣 郭文斌(46)
基于“企业+农户”模式的肉鸡养殖精准化管理平台 付金禄 李丽华 贾宇琛 邸梦醉 周子轩(54)

作物

- 谷子 α -淀粉酶家族基因的全基因组鉴定与表达分析 马荣博 杨宇琭 张丽玲 韩渊怀(66)
棉属AADD异源四倍体后代筛选及性状鉴定 陈天 李昱樱 杨亚杰 候林慧 常永春 荣二花 吴玉香(72)
千果榄仁叶绿体基因组特征及密码子偏好性分析 余潇 赵振宁 杜春(81)

植物保护

- 基于转录组测序的象耳豆根结线虫致病相关基因初步筛选 曾媛玲 吴文涛 周绍芳 闫曦蕊 陈荣春 王雪兰 王扬(93)
尖孢镰孢菌与番茄互作早期miRNA调控功能研究 畅引东 贾伦伟 何瑞 张萌 孟广军 李新凤 张作刚 王建明(102)
温湿度、补充营养及接种密度对褐带卷蛾茧蜂繁育效果影响 钟宝珠 蒙太高 吕朝军 阎金涛 李文莲(113)

资源与环境

- 汾河流域农田土壤草甘膦的分布、降解及迁移特征 刘敏霞 刘晓昕月(122)

Contents

Preface of the specific	Lu Mingzhou(1)
Research progress on intelligent equipment and information technology for poultry farming..... Zheng Weichao, Deng Senzhong, Tong Qin, Wang Yang, Li Baoming, Teng Guanghui(2)	
Designing an agricultural product traceability system using Hyperledger Fabric Blockchain and Internet of Things technology... Zhang Yaqian, Liu Jiangping, Chen Chen(12)	
A prediction model for environmental factors in a pig house based on statistical learning and deep learning..... Ma Chaofan, Xie Qiuju, Wang Shengchao, Li jialong, Zheng ping, Bao Jun, Liu Honggui(24)	
Analysis of the minimum potential energy in the cellular automaton model of sheep flock movement Jiao Fan, Nie Lili, Wang Ying, Liu Zhenyu(33)	
Prediction model of milk fat content based on EOBL-AO Liu Jiangping, Li Xin, Chen Chen(40)	
Design of an Internet of things based solar-powered hay bale drying and storage system Du Jianqiang, Li Fengming, Guo Wenbin(46)	
Precision management platform for broiler breeding based on "Enterprise + Farmer" model	
..... Fu Jinlu, Li Lihua, Jia Yuchen, Di Mengzui, Zhou Zixuan(54)	
Genome identification and expression analysis of α -amylase family genes in foxtail millet (<i>Setaria italica</i>)	
..... Ma Rongbo, Yang Yulu, Zhang Liling, Han Yuanhuai(66)	
Screening and characterization of AADD allotetraploid in genus <i>Gossypium</i>	
..... Chen Tian, Li Yuying, Yang Yajie, Hou Linhui, Chang Yongchun, Rong Erhua, Wu Yuxiang(72)	
Analysis of the complete chloroplast genome sequence characteristics and its code usage bias of <i>Terminalia myriocarpa</i>	
..... Yu Xiao, Zhao Zhenning, Du Chun(81)	
Preliminary screening of genes related to pathogenicity of <i>Meloidogyne enterolobii</i> based on transcriptome testing	
..... Zeng Yuanling, Wu Wentao, Zhou Shaofang, Yan Xirui, Chen Rongchun, Wang Xuelan, Wang Yang(93)	
Study on the regulatory function of miRNA at early stage of the interaction between <i>Fusarium oxysporum</i> and tomato	
..... Chang Yindong, Jia Yiwei, He Rui, Zhang Meng, Meng Guangjun, Li Xinfeng, Zhang Zuogang, Wang Jianming(102)	
Effects of temperature, relative humidity, supplementary nutrition and inoculation density on reproductive effect of <i>Bracon adoxophyesi</i> Mimanikawa	
..... Zhong Baozhu, Meng Taigao, Lü Chaojun, Kan Jintao, Li Wenlian(113)	
Distribution, degradation and migration characteristics of Glyphosate in agricultural soil from Fenhe River basin	
..... Liu Minxia, Liu Xiaoxinyue(122)	