



ISSN 1007-4333
CODEN ZNDXAA

JOURNAL OF CHINA AGRICULTURAL UNIVERSITY

DOI:10.11841/j.issn.1007-4333.2024.01.01



目次

基于专利分析的玉米秸秆创新利用态势研究
.....陈理 韩毅 瞿云山 杨广 王泽宇 赖有春 陈帅宇 郑永军 周宇光(1)

马铃薯‘华颂 66 号’遗传转化体系的建立
.....武小娟 吴娟 王沛捷 聂虎帅 刘杰 魏巍 马艳红(21)

类黄酮合成关键基因 *MeF3H* 在木薯块根采后腐烂中的功能分析
.....安飞飞 蔡杰 薛晶晶 朱文丽 陈松笔 罗秀芹(31)

基于无人机热成像的棉花根域土壤水分含量估测研究
.....张文旭 祝丹凤 崔静 宋江辉 史晓艳 王金刚 杨明凤 王海江(40)

甜玉米轮作配施万寿菊秸秆返田防治白菜根肿病机理初探
.....周星海 魏方俊 张晋豪 贺赛雅 邱玥 艾瑛 魏兰芳 姬广海(53)

基于 DEM-MBD 耦合的滚勺式精量穴播器成穴器运动参数优化
.....王尊 赵武云 石林榕 孙步功 孙伟 戴飞
周刚 郭军海 饶罡 李辉(66)

茶树炭疽病菌侵染研究进展郑新强 林昕怡 杨子贤 叶晶晶 陆建良 梁月荣(78)

基于智能手机的便携式多功能食品安全快检系统开发
.....李朝阳 张帅 江海洋 郑永军 刘星星(88)

意大利蜜蜂 *AmMETTL3* 基因的分子克隆与表达模式
.....刘小玉 刘治滩 荆欣 冯佩林 高旭泽 吴鹰 李琪明
樊念 陈大福 付中民 郭睿(99)

邻菲罗啉抗大肠杆菌作用机制的初步研究
.....王瑜 武周慧 陆彦 王之文 杜衡 肖爽 王真(109)

基于 gB 蛋白的牛传染性鼻气管炎间接 ELISA 检测方法的建立
.....温靖 于佳梁 李丹 包福祥(119)

去势和热应激对筠连黄牛生产性能、瘤胃发酵和血液生化指标的影响
.....岳子奇 姚小鹤 王之盛 胡瑞 邹华国 肖鉴鑫 左之才 彭全辉
梁秀容 邓文松 王成 左家学(127)

羊垫料养殖技术研究进展
.....袁京 尹子铭 王国英 李丹阳 杨佳 李国学(140)

基于地表水目标水质的畜禽粪便水环境承载力估算
.....楚天舒 赖世宣 杨行 赵智强 郭青霞(146)

海南省农业领域碳排放时空分布与预测.....叶炳南 孟海波 冯晶 丛宏斌(157)

大都市外围乡村地区国土空间规划双评价与分区研究
——以北京昌平为例.....王丽霞 姜群鸥 齐元静 张宝林(167)

山区土地利用变化强度与稳定性诊断研究
——以福建省德化县为例.....谢臻 张茜茜 阿迪拉·艾尼瓦尔江 张凤荣(186)

基于中国情境的食品工业企业信息责任
——概念界定、履责行为与影响因素.....吴林海 严伟(199)

消费者感知视角下绿色农产品购买意愿的形成机理
——基于理性行为理论拓展模型.....徐晓鹏 刘影(214)

人口城镇化对农民收入结构的影响效应
——基于中国省级面板的实证分析.....常明 李飞 刘静(228)

“创造性毁灭”:农机装备升级引发的维修服务体系重构.....阮冬燕 周晶 王娟(240)

新形势下中亚粮食安全问题:现状、成因与路径选择.....康丽娜(258)

CONTENTS

Research on innovative utilization trend of corn stover based on patent analysis
.....CHEN Li, HAN Yi, QU Yunshan, YANG Guang, WANG Zeyu,
LAI Youchun, CHEN Shuaiyu, ZHENG Yongjun, ZHOU Yuguang(1)

Establishment of genetic transformation system for ‘Huasong 66’
.....WU Xiaojuan, WU Juan, WANG Peijie, NIE Hushuai,
LIU Jie, WEI Wei, MA Yanhong(21)

Functional analysis of *MeF3H*, a key gene for flavonoid synthesis, in cassava postharvest deterioration
.....AN Feifei, CAI Jie, XUE Jingjing, ZHU Wenli, CHEN Songbi, LUO Xiuqin(31)

Estimation of soil moisture content in cotton rhizosphere based on UAV thermal imaging
.....ZHANG Wenxu, ZHU Danfeng, CUI Jing, SONG Jianghui, SHI Xiaoyan,
WANG Jingang, YANG Mingfeng, WANG Haijiang(40)

Preliminary study on the mechanism of controlling Chinese cabbage clubroot disease by applying
marigold straw in sweet corn rotation
.....ZHOU Xinghai, WEI Fangjun, ZHANG Jinhao, HE Saiya,
QIU Yue, AI Ying, WEI Lanfang, JI Guanghai(53)

Optimization of the motion parameters of a rolling spoon type precision hole planter based on
DEM-MBD coupling
.....WANG Zun, ZHAO Wuyun, SHI Linrong, SUN Bugong, SUN Wei,
DAI Fei, ZHOU Gang, GUO Junhai, RAO Gang, LI Hui(66)

Research progress on tea anthracnose pathogen infection
.....ZHENG Xinqiang, LIN Xinyi, YANG Zixian,
YE Jingjing, LU Jianliang, LIANG Yuerong(78)

Development of a smartphone-based portable multifunctional food safety rapid detection system
.....LI Zhaoyang, ZHANG Shuai, JIANG Haiyang,
ZHENG Yongjun, LIU Xingxing(88)

Molecular cloning and expression pattern determination of *AmMETTL3* gene in *Apis mellifera ligustica*
.....LIU Xiaoyu, LIU Zhitan, JING Xin, FENG Peilin, GAO Xuze, WU Ying,
LI Qiming, FAN Nian, CHEN Dafu, FU Zhongmin, GUO Rui(99)

Study on the antibacterial mechanism of 1,10-Phenanthroline monohydrate against *E. coli*
.....WANG Yu, WU Zhouhui, LU Yan, WANG Zhiwen,
DU Heng, XIAO Shuang, WANG Zhen(109)

Establishment of indirect ELISA method for detection of bovine infectious rhinotracheitis based on gB protein *WEN Jing, YU Jialiang, LI Dan, BAO Fuxiang*(119)

Effects of castration and heat-stress on production performance, rumen fermentation and blood biochemical indexes of Junlian cattle *YUE Ziqi, YAO Xiaohe, WANG Zhisheng, HU Rui, ZOU Huawei, XIAO Jianxin, ZUO Zhicai, PENG Quanhui, LIANG Xiurong, DENG Wensong, WANG Cheng, ZUO Jiaxue*(127)

Research progress of sheep bedding breeding technology *YUAN Jing, YIN Ziming, WANG Guoying, LI Danyang, YANG Jia, LI Guoxue*(140)

Estimation of water environmental bearing capacity of animal manure based on surface water target quality *CHU Tianshu, LAI Shixuan, YANG Hang, ZHAO Zhiqiang, GUO Qingxia*(146)

Spatio-temporal distribution and prediction of agricultural carbon emissions in Hainan Province *YE Bingnan, MENG Haibo, FENG Jing, CONG Hongbin*(157)

Study on dual evaluation and zoning of land spatial planning in rural areas around metropolis: Taking Changping, Beijing as study case *WANG Lixia, JIANG Qun'ou, QI Yuanjing, ZHANG Baolin*(167)

Diagnostic study on the intensity and stability of land use changes in mountainous area *XIE Zhen, ZHANG Qianqian, Adila, ZHANG Fengrong*(186)

Corporate information responsibility of food industry enterprises in the Chinese context: Definition, behavior, and influencing factors *WU Linhai, YAN Wei*(199)

Formation mechanism of the purchase intention of green agricultural products from the perspective of consumers' perception: Based on the expanded model of reasoned action theory *XU Xiaopeng, LIU Ying*(214)

Effect of population urbanization on the income structure of farmers: An empirical analysis based on Chinese provincial panels *CHANG Ming, LI Fei, LIU Jing*(228)

“Creative destruction”: The reconstruction of maintenance service system incurred by upgrading of agricultural equipment *RUAN Dongyan, ZHOU Jing, WANG Juan*(240)

Food security in Central Asia under the new situation: Current situation, causes and path selection *KANG Lina*(258)

官方网站



官方微信



中国农业大学学报
Zhongguo Nongye Daxue Xuebao

(月刊, 1996年创刊)

第29卷 第1期 2024年1月

主管单位 中华人民共和国教育部
主办单位 中国农业大学
主 编 李保国
副 主 编 袁文业
本期责任编辑 吕晓梅
美术编辑 邢 璐
编辑出版 《中国农业大学学报》编辑部
100193 北京市海淀区圆明园西路2号
010-6273 2619
印 刷 北京科信印刷有限公司
国内发行 《中国农业大学学报》编辑部
国外发行 中国国际图书贸易集团有限公司
(北京399信箱) 发行代号: BM7575

JOURNAL OF CHINA
AGRICULTURAL UNIVERSITY

(Monthly, Started in 1996)

Vol. 29 No. 1 Jan. 2024

Responsible Institution Ministry of Education of P. R. C.
Sponsored by China Agricultural University
Editor-in-chief LI Baoguo
Edited, Published and Distributed by Editorial Board of
Journal of China Agricultural University
Address No. 2 Yuanmingyuan Xilu, Beijing 100193, China
Overseas Distributor China International Book
Trading Corporation, P. O. Box 399, Beijing, China
Distribution No. BM7575
Telephone +86-10-6273 2619
E-mail xuebao@cau.edu.cn <http://zgnydxxb.ijournals.cn>

刊号 ISSN 1007 - 4333
CN 11 - 3837/S

国内定价 30.00元/期
360.00元/年

ISSN 1007-4333



9 771007 433245

01>