

目 次

近35年吴桥县夏玉米水分亏缺变化趋势分析

..... 商蒙非 杨萌 冯宇鹏 贾浩 李硕 宋英杰 陈阜 褚庆全(1)

腐植酸对重度干旱胁迫下燕麦叶片可溶性糖组分和内源激素的影响

..... 张志芬 付晓峰 赵宝平 刘俊青 刘景辉(11)

药用植物苦参EST-SSR标记的开发及DNA指纹图谱的构建

..... 段永红 雷海英 张旭 吴玉香 孙毅(21)

NH₄⁺-N 和 NO₃⁻-N 供应条件下水稻磷高效品种初选

..... 陈晨 龚海青 金梦灿 鄂红建(32)

黑香蕉葡萄不同器官发生途径再生体系的优化

..... 常新 梁晋军 刘振华 肖坤 王燕 崔海洋 胡建芳(43)

不同分子量的褐藻寡糖对黄瓜幼苗光合作用及生长的影响

..... 李佳琪 汤洁 李明月 严国富 郑禾 陶增蛟 郭仰东(53)

叶用芥菜小孢子培养技术体系的完善及DH系创制

..... 邓英 唐兵 付文苑 杨静 陶莲 吴康云(60)

宁夏地区荷斯坦牛产奶量和产犊间隔影响因素分析

..... 刘丽元 田佳 温万 张娟 邵怀峰 脱征军 蒋秋斐 顾亚玲(68)

牛瘤胃微生物菌群变化及其影响因素 祁宏伟 仲伟光 王玉婷 赵玉民(75)

长期氮磷不同施用量对土壤细菌、硝化与反硝化微生物数量的影响

..... 杨亚东 宋润科 马俊永 曾昭海(81)

塔里木河上游典型绿洲中棉花的生态化学计量特征及其与棉田连作年限的关系

..... 陈新 贡璐 李红林 罗艳 安申群(89)

泰来县耕地土壤硒含量特征及空间分布

..... 张慧 马鑫鹏 李昕阳 史晓磊 苏航 隋虹均 杨欢 郑志志(100)

湘江流域长株潭段水污染负荷时空分布规律及成因

..... 彭亚辉 周科平 蒋俊伟(108)

矩形渠道分水口分流规律及影响因素

..... 刘海强 王文娥 胡笑涛 薛城(117)

基于电子鼻技术的小麦种子活力鉴别

..... 张婷婷 赵宾 杨丽明 王建华 孙群(123)

滚筒式棉秆铡切机构的设计与试验

..... 廖培旺 刘凯凯 陈明江 王振伟 张爱民(131)

农牧一体化下杂草生物多样性及玉米生产效益研究

..... 边步云 关法春 张永锋 程犇 全淑萍(139)

棉花精量排种器排种性能试验研究

..... 肖旭 全腊珍 全伟 李明 廖配 杨思远 李岑(148)

基于多尺度 Retinex 图像增强的羊体尺参数无接触测量

..... 周艳青 薛河儒 姜新华 邹晓晶 杜雅娟 白明月(156)

机器学习在近红外光谱法判别鲍鱼品种研究中的应用

..... 高婧娴 黄扬明 雷春丽 闫红 闵顺耕 熊艳梅 闵志勇(166)

2006—2015 年中国乡村人口与住房面积的时空协同研究

..... 徐晓凡 辛良杰(171)

中国农村绿色发展水平的时空差异及驱动因素分析

..... 余威震 罗小锋 薛龙飞 李兆亮(186)

家庭生命周期、社会资本与农户生计策略研究

..... 彭继权 吴海涛 孟权(196)

农业产业集聚对碳效率的影响研究:机理、空间效应与分群差异

..... 程琳琳 张俊飚 何可(218)

农户林地经营的适度规模研究

——基于粤、浙、皖三省的调查数据 张自强 李怡 高岚(231)

CONTENTS

- Study on the water deficit trend of summer maize in recent 35 years in Wuqiao County,
Hebei Province SHANG Mengfei, YANG Meng, FENG Yupeng, JIA Hao,
LI Shuo, SONG Yingjie, CHEN Fu, CHU Qingquan(1)
- Effects of humic acid on soluble sugar and endogenous hormones in oat leaves under severe drought
stress ZHANG Zhifen, FU Xiaofeng, ZHAO Baoping, LIU Junqing, LIU Jinghui(11)
- Development of EST-SSR markers and construction of DNA fingerprint in *Sophora flavescens*
..... DUAN Yonghong, LEI Haiying, ZHANG Xu, WU Yuxiang, SUN Yi(21)
- Primary screening of high phosphorus use efficiency of rice varieties under NH_4^+ -N and NO_3^- -N
conditions CHEN Chen, GONG Haiqing, JIN Mengcan, GAO Hongjian(32)
- Optimization of *Vitis vinifera* \times *V. labrusca* ‘Hei Xiangjiao’ adventitious buds regeneration via
organogenesis CHANG Xin, LIANG Jinjun, LIU Zhenhua,
XIAO Kun, WANG Yan, CUI Haiyang, HU Jianfang(43)
- Effects of different molecular weight alginate-derived oligosaccharide on photosynthetic characters
and the growth of cucumber seedlings LI Jiaqi, TANG Jie, LI Mingyue, YAN Guofu,
ZHENG He, TAO Zengjiao, GUO Yangdong(53)
- Optimization of the isolated microspore culture system of leaf mustard and
double haploid line producing DENG Ying, TANG Bing, FU Wenyuan,
YANG Jing, TAO Lian, WU Kangyun(60)
- Factors influencing milk yield and calving interval of Holstein dairy cow in Ningxia area
..... LIU Liyuan, TIAN Jia, WEN Wan, ZHANG Juan,
SHAO Huafeng, TUO Zhengjun, JIANG Qiufei, GU Yaling(68)
- Changes of microbial flora in cattle rumen and its influential factors
..... QI Hongwei, ZHONG Weiguang, WANG Yuting, ZHAO Yumin(75)
- Effects of long-term different N and P fertilization rates on the abundance of bacteria
nitrifying and denitrifying microorganisms in soil
..... YANG Yadong, SONG Runke, MA Junyong, ZENG Zhaohai(81)
- Stoichiometric characteristics of cotton in the oasis of upper reaches of Tarim
River and its relationship with continuous cropping years
..... CHEN Xin, GONG Lu, LI Honglin, LUO Yan, AN Shenqun (89)

- Characteristics and spatial distribution of selenium content in cultivated soils of Tailai County
..... ZHANG Hui , MA Xinpeng , LI Xinyang , SHI Xiaolei ,
SU Hang , SUI Hongjun , YANG Huan , ZHENG Zhizhi(100)
- The spatial-temporal distribution and causes of water pollution loads on Xiangjiang River
Basin in Changzhutan PENG Yahui , ZHOU Keping , JIANG Junwei(108)
- Water-division rules and the influencing factors of rectangular channel
..... LIU Haiqiang , WANG Wen'ye , HU Xiaotao , XUE Cheng(117)
- Determination of wheat seeds vigor based on electronic nose
..... ZHANG Tingting , ZHAO Bin , YANG Liming , WANG Jianhua , SUN Qun(123)
- Design and experiment of a roller type cotton stalk cutting mechanism
..... LIAO Peiwang , LIU Kaikai , CHEN Mingjiang , WANG Zhenwei , ZHANG Aimin(131)
- Effects of agro-pastoral integration on weed biodiversity in field and maize production
..... BIAN Buyun , GUAN Fachun , ZHANG Yongfeng , CHENG Ben , TONG Shuping(139)
- Design and experiment of a cotton precision bunch sowing device
..... XIAO Xu , QUAN Lazhen , QUAN Wei , LI Ming , LIAO Pei , YANG Siyuan , LI Cen(148)
- Non-contact measurement of sheep body size based on multi-scale Retinex image enhancement
..... ZHOU Yanqing , XUE Heru , JIANG Xinhua ,
GAO Xiaojing , DU Yajuan , BAI Mingyue(156)
- Discrimination of abalone (sub)species basing on near-infrared spectroscopy and machine learning
..... GAO Jingxian , HUANG Yangming , LEI Chunli , YAN Hong ,
MIN Shungeng , XIONG Yanmei , MIN Zhiyong(166)
- Spatial and temporal cooperation of rural population and housing area in China during 2006 to 2015
..... XU Xiaofan , XIN Liangjie(171)
- Spatiotemporal differences and driving factors of green development in rural China
..... YU Weizhen , LUO Xiaofeng , XUE Longfei , LI Zhaoliang(186)
- Study on family life cycle, social capital and rural households' livelihood strategy
..... PENG Jiquan , WU Haitao , MENG Quan(196)
- Different spatial impacts of agricultural industrial agglomerations on carbon efficiency:
Mechanism, spatial effects and groups differences
..... CHENG Linlin , ZHANG Junbiao , HE Ke(218)
- Study on the appropriate scale of rural households' forest land management:
Based on the survey data from Guangdong, Zhejiang and Anhui provinces
..... ZHANG Ziqiang , LI Yi , GAO Lan(231)