



全国中文核心期刊
CSCD 核心库期刊

ISSN 1007-4333
CODEN ZNDXAA

中国农业大学学报

JOURNAL OF CHINA
AGRICULTURAL
UNIVERSITY



连续开花萱草杂交育种研究

DOI:10.11841/j.issn.1007-4333.2018.06.06

Vol. 23 No. 6 2018

目 次

沧州市农业水足迹变化特征与驱动因素分析
..... 贾浩 李硕 宋英杰 商蒙非 石晓宇 张海林 陈阜 褚庆全(1)

一定光量子通量密度下不同倍性谷子光合因子日响应拟合模型的构建
..... 王晓宇 袁峰 郝晓芬 刘鑫 王雪梅 王根全 王节之(15)

基于转录组测序的黄麻 SSR 分子标记开发与初步验证
..... 陶爱芬 陈婉婷 祁建民 徐建堂 林荔辉 林培清 张立武 方平平(24)

基于近红外光谱法快速测定秸秆堆腐过程中纤维素、半纤维素和木质素含量的研究
..... 任兰天 唐飞 邵庆勤 宋长刚 刘庆 梅艳艳 张从军(33)

溶磷菌 *Pseudomonas* sp. wj1 的 Pst 系统鉴定及 *pstS* 基因功能分析
..... 杨雪 岳胜天 武志海 付丽 于人杰 杨美英(40)

连续开花萱草杂交育种研究 袁琳 高亦珂 朱琳 张启翔(49)

生防菌对向日葵列当的防除作用的初步研究
..... 郭振国 陈杰 Muhammad Rashid Nizamani 陈连芳 马永清(59)

基于 Y 染色体 ZFY-10 标记多态性探究柴达木黄牛父系支系组成和起源
..... 马志杰 夏小婷 陈生梅 李瑞哲 张俸伟 晁生玉 雷初朝(70)

雌、雄驯鹿鹿茸顶端表皮组织 *Morf4l1* 基因 cDNA 克隆与表达分析
..... 王强辉 翟健程 夏彦玲 李和平(77)

新疆乌鲁木齐市宠物源葡萄球菌耐药性及其相关耐药基因的检测
..... 轩慧勇 郭菲 夏利宁 姚晓慧(85)

冰衣结合茶多酚对南美白对虾冻藏中品质变化的影响
..... 雷雨田 石径 桂萍 冯力更 余训培 罗永康(92)

基于 RCP 情景的全球 1.5 和 2.0 ℃ 升温下安徽省气候变化及气象干旱预估
..... 王胜 许红梅 杨玮 张弦(100)

准格尔旗砒砂岩区沙棘蒸腾耗水与环境因子的关系
..... 刘龙 姚云峰 郭月峰 祁伟 尉迟文思 韩兆敏 董晓宇(108)

2000—2016 年陈巴尔虎旗植被覆盖度时空变化遥感动态监测
..... 闫萧萧 李晶 杨震(121)

基于数码图像的甜菜氮素近地遥感监测模型..... 张珏 田海清 李哲 李斐 史树德(130)

施肥开沟机作业信息远程监测方法与试验
..... 王新 许苗 禹振军 张少宏 邢博 王书茂(140)

U 形筒螺旋输送机输送颗粒物料的离散元仿真 刘春飞 李艳洁 王玉 徐泳(151)

基于可时移农业负荷的光伏智慧农业大棚微型能源网优化调度
..... 王维洲 刘福潮 杨建华 郑晶晶 杨勇 张建华(160)

我国小麦生产的要素替代关系研究..... 高道明 王丽红 田志宏(169)

基于 DEA-SBM 模型对不同稻作制度下我国水稻生产碳排放效率的分析
..... 刘勇 张俊飏 张露(177)

农户分化对环境友好型技术采纳影响的实证研究
——基于 554 户农户对测土配方施肥技术应用的调研
..... 王思琪 陈美球 彭欣欣 刘桃菊(187)

农户对环境友好型技术的采纳意愿及异质性分析——以湖北省为例
..... 王学婷 何可 张俊飏 童庆蒙 程文能(197)

名声效应、重复博弈与农村集体行动 詹国辉 张新文(210)

基于 SSM 的内蒙古牧区产业结构演进特征分析 苗静 盖志毅(219)

CONTENTS

- Variation characteristics and driving factors of agriculture water footprint in Cangzhou City
..... JIA Hao, LI Shuo, SONG Yingjie, SHANG Mengfei, SHI Xiaoyu,
ZHANG Hailin, CHEN Fu, CHU Qingquan (1)
- Establishment of simulation models on photosynthetic factors responding to
diurnal variation under certain PFD of millets having different ploidies
..... WANG Xiaoyu, YUAN Feng, HAO Xiaofen, LIU Xing,
WANG Xuemei, WANG Genquan, WANG Jiezhi (15)
- Development and identification of SSR molecular markers based on
transcriptome sequences of jute (*Corchorus Capsularis* L.)
..... TAO Aifen, CHEN Wanting, QI Jianmin, XU Jiantang, LIN Lihui,
LIN Peiqing, ZHANG Liwu, FANG Pingping (24)
- Rapid contend determination of cellulose, hemicellulose and lignin during wheat
straw compose period based on Near-Infrared reflectance spectroscopy
..... REN Lantian, TANG Fei, SHAO Qingqin, SONG Changgang,
LIU Qing, MEI Yanyan, ZHANG Congjun (33)
- Identification of the Pst system of phosphate solubilizing bacteria *Pseudomonas* sp. wj1
and functional analysis of *pstS* gene YANG Xue, YUE Shengtian,
WU Zhihai, FU Li, YU Renjie, YANG Meiyong (40)
- Study on the cross breeding of continuous reblooming daylilies
..... YUAN Lin, GAO Yike, ZHU Lin, ZHANG Qixiang (49)
- Preliminary study on the bio-control effect of microorganism on
sunflower broomrape (*Orobanche cumana* Wallr.) GUO Zhenguo, CHEN Jie,
MUHAMMAD Rashid Nizamani, CHEN Lianfang, MA Yongqing (59)
- Explore the patrilineal branches and origin of Qaidam cattle based on the
polymorphism of Y chromosome ZFY-10 marker MA Zhijie, XIA Xiaoting,
CHEN Shengmei, LI Ruizhe, ZHANG Fengwei, CHAO Shengyu, LEI Chuzhao (70)
- cDNA cloning and expression analysis of *Morf411* gene in the antler top of female and male reindeer
..... WANG Qianhui, ZHAI Jiancheng, XIA Yanling, LI Heping (77)
- Detection of drug resistance and resistant genes in *Staphylococcus* from pets in Urumqi, Xinjiang
..... XUAN Huiyong, GUO Fei, XIA Lining, YAO Xiaohui (85)
- Effects of glazing with tea polyphenols on the quality characteristics for
Pacific white shrimp (*Litopenaeus vannamei*) during frozen storage
..... LEI Yutian, SHI Jing, GUI Ping, FENG Ligeng, YU Xunpei, LUO Yongkang (92)

Estimated projections in climate change and meteorological drought in
 Anhui Province under 1.5 and 2.0 °C global warming based on RCP
 WANG Sheng ,XU Hongmei ,YANG Wei ,ZHANG Xuan (100)

Correlations between the transpiration water consumption of *Hippophae rhamnoides* Linn.
 and environmental factors in soft sandstone area of Zhungeer LIU Long ,YAO Yunfeng ,
 GUO Yuefeng ,QI Wei ,YUCHI Wensi ,HAN Zhaomin ,DONG Xiaoyu (108)

Dynamicremote sensing monitoring on the temporal-spatial changes of
 vegetation coverage in Chen Barag Banner from 2000 to 2016
 YAN Xiaoxiao ,LI Jing ,YANG Zhen (121)

Remote sensing model for monitoring nitrogen in beet based on digital imaging
 ZHANG Jue ,TIAN Haiqing ,LI Zhe ,LI Fei ,SHI Shude (130)

Study on remote-monitoring for the operation information of fertilization trencher
 WANG Xin ,XU Miao ,YU Zhenjun ,ZHANG Shaohong ,XING Bo ,WANG Shumao (140)

Discrete element simulations on the transporting particle materials of U-shape screw conveyor
 LIU Chunfei ,LI Yanjie ,WANG Yu ,XU Yong (151)

Optimization of the micro energy grid of PV intelligent agricultural greenhouse based on
 time-shifting agricultural load WANG Weizhou ,LIU Fuchao ,YANG Jianhua ,
 ZHENG Jingjing ,YANG Yong ,ZHANG Jianhua (160)

Research on the factor substitution relationships of wheat production
 GAO Daoming ,WANG Lihong ,TIAN Zhihong (169)

Analysis of carbon emission efficiency of rice in China under different rice planting patterns
 based on the DEA-SBM model LIU Yong ,ZHANG Junbiao ,Zhang Lu (177)

Empirical study on the influence of rural-household differentiation on their willingness to
 adopt environment-friendly technology:Based on the investigation of 554 peasant
 households' application of soil testing formula fertilization technology
 WANG Siqi ,CHEN Meiqiu ,PENG Xinxin ,LIU Taoju (187)

Farmers' willingness to adopt environment friendly technologies and their heterogeneity:
 Taking Hubei Province as an example
 WANG Xueting ,HE Ke ,ZHANG Junbiao ,TONG Qingmeng ,CHENG Wenneng (197)

Reputation effect,repeated game and collective action in rural areas
 ZHAN Guohui ,ZHANG Xinwen (210)

Analysis on the evolution characteristics of the industrial structure in
 Inner Mongolia pastoral area based on SSM MIAO Jing , GAI Zhiyi (219)

中国农业大学学报
Zhongguo Nongye Daxue Xuebao

(月刊, 1996年创刊)

第23卷 第6期 2018年6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

编辑出版 《中国农业大学学报》编辑部
100193 北京海淀区圆明园西路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 中国国际图书贸易总公司
(北京399信箱)

JOURNAL OF CHINA
AGRICULTURAL UNIVERSITY

(Monthly, Started in 1996)

Vol. 23 No. 6 June 2018

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

Abroad Distributed by China International Book

Trading Corporation, P. O. Box 399, Beijing, China

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

