

目 次

基于数据包络分析法的秸秆能源化利用的生态效率评价

..... 郭小青 于晓娜 朱万斌 王洪亮(1)

植物生长调节剂对绿豆干物质积累动态与产量的影响

..... 王娜 杨思敏 刘蓓蓓 林瑞娟 杨璞 高金锋 高小丽(10)

CoCl₂ 胁迫下青稞苯丙氨酸解氨酶基因的克隆与表达分析

..... 乔枫 张丽 耿贵工 陈志 曾阳 谢惠春(18)

蝴蝶兰(*Phalaenopsis* spp.)与钻喙兰(*Rhynchostylis retusa*)远缘杂交种子

无菌播种及后代表型分析 陈和明 吕复兵 李佐 肖文芳(28)

基于 HS-SPME-GC-MS 的 4 种不同蝴蝶兰种质资源花朵挥发性成分比较分析

..... 肖文芳 李佐 陈和明 吕复兵(38)

基于改进 YOLOv3 的猪脸识别 何屹彤 李斌 张锋 陶浩兵 辜丽川 焦俊(53)

奶牛产后不同体况对产奶量和亚临床酮病的影响

..... 曹浩 宋玉锡 白云龙 刘哲 夏成 徐闯(63)

天津某牧场奶牛乳房炎奶样与环境中细菌的分离与鉴定

..... 胡海燕 刘慧敏 孟璐 郑楠 王加启 程建波(69)

丙酸对山羊小肠上皮细胞糖异生途径关键基因表达的影响

..... 宁丽丽 詹康 霍俊宏 占今舜 彭程 杨天宇 赵国琦(80)

基于 K-means-BP 神经网络的舍饲环境母羊产前运动行为分类识别

..... 刘艳秋 宣传忠 武佩 张丽娜 张永安 李美安(86)

肌肉生长发育可变剪接研究进展

..... 孙燕勇 付绍印 何小龙 王标 刘永斌 张文广(96)

侧通风口高度对塑料温室气流及温湿度的影响

..... 赵融盛 蔡泽林 杨志 洪婷婷 张智(105)

考虑压-弯-扭耦合作用的开口截面杆件非线性静力模型

..... 赵云 丁敏 韩盛柏 曹琼琼 蒋秀根(115)

流向统计法分析中国粮食安全状况及高标准农田需求预测

..... 王柳 魏秀菊 张跃峰 张学军 赵爱琴 张秋玲 吴政文 陈松云(124)

基于农田土壤抗生素生态风险值的畜禽粪污农田承载力估算

..... 楚天舒 王炳雄 孟坦 赖世宣 杨增玲(138)

面向国土空间规划的昆明市生态保护重要性评价

..... 方一舒 祖健 艾东 陈杰 梁秋月(152)

重点区域林地时空变化特征及驱动力分析 崔绿园 李晶 邓晓娟 王媛 楚晶晶(164)

基于面板数据的 PVAR 模型分析安徽省城镇化对农业碳排放的影响

..... 曾珍 韩纪琴 吴义根(176)

东北地区粮食作物产量变化特征及其对气象干旱的响应研究

..... 韩冬荟 赵金媛 胡琦 潘学标 王萍 易国庆
郭颖达 王浩然 和骅芸 陈立新(188)

生产函数异质性与地区农业经济增长

——基于时空异质弹性生产函数模型 胡晨沛 李辉尚 聂凤英(201)

中国与“一带一路”沿线国家之间农产品贸易的边境效应

——基于 GSIM 模型的分析 尹峻 庞一璞 党敬淇(212)

临时收储政策退出对玉米期货和现货价格发现功能的影响

..... 李辛一 朱满德 姚志(227)

气候变化下的农户适应性行为及其对粮食单产的影响 高雪 李谷成 尹朝静(240)

社会资本、生态认知与农户合理施肥行为

——基于结构方程模型的实证分析 肖钰 齐振宏 杨彩艳 刘哲(249)

CONTENTS

- Eco-efficiency evaluation of the crop residue energy utilization based on data envelopment analysis
..... GUO Xiaoqing , YU Xiaona , ZHU Wanbin , WANG Hongliang (1)
- Regulation of plant growth regulator on dry matter accumulation and yield of mung bean
..... WANG Na , YANG Simin , LIU Beibei , LIN Ruichang ,
YANG Pu , GAO Jinfeng , GAO Xiaoli (10)
- Cloning and expression of phenylalanine ammonialyase gene of *Hordeum vulgare*
var nudum under CoCl₂ stress QIAO Feng , ZHANG Li ,
GENG Guigong , CHEN Zhi , ZENG Yang , XIE Huichun (18)
- Aseptic seeding and F₁ phenotypic analysis of intergeneric hybrid between
Phalaenopsis spp. and *Rhynchostylis retusa*
..... CHEN Heming , LV Fubing , LI Zuo , XIAO Wenfang (28)
- Analysis of volatile components in flowers of four different *Phalaenopsis*
germplasm resources by headspace solid phase microextraction coupled
with gas chromatography-mass spectrometry
..... XIAO Wenfang , LI Zuo , CHEN Heming , LV Fubing (38)
- Pig face recognition based on improved YOLOv3
..... HE Yutong , LI Bin , ZHANG Feng , TAO Haobing , GU Lichuan , JIAO Jun (53)
- Impacts of postpartum body conditions of dairy cows on milk production and subclinical ketosis
..... CAO Hao , SONG Yuxi , BAI Yunlong , LIU Zhe , XIA Cheng , XU Chuang (63)
- Isolation and identification of mastitic milk and environment bacteria in a dairy farm in Tianjin
..... HU Haiyan , LIU Huimin , MENG Lu , ZHENG Nan , WANG Jiaqi , CHENG Jianbo (69)
- Effects of propionate on the mRNA expressions of key genes in the gluconeogenesis
pathway in goat intestinal epithelial cells NING Lili , ZHAN Kang , HUO Junhong ,
ZHAN Jinshun , PENG Cheng , YANG Tianyu , ZHAO Guoqi (80)
- Classification and recognition on movement behaviors of ewes in house feeding
environment based on K-means and BP neural network
..... LIU Yanqiu , XUAN Chuanzhong , WU Pei ,
ZHANG Lina , ZHANG Yongan , LI Meian (86)
- Advances on alternative splicing of muscle growth and development
..... SUN Yanyong , FU Shaoyin , HE Xiaolong ,
WANG Biao , LIU Yongbin , ZHANG Wenguang (96)

- Effect of side vent height on airflow, temperature and humidity in plastic greenhouse
..... ZHAO Rongsheng, CAI Zelin, YANG Zhi, HONG Tingting, ZHANG Zhi(105)
- Nonlinear static model for the bar with open section considering pressure-bending-torsion coupling
..... ZHAO Yun, DING Min, HAN Shengbai, CAO Qiongqiong, JIANG Xiugen(115)
- Analysis on food security of China based on flow-statistics method and
demand prediction on well-facilitated farmland
..... WANG Liu, WEI Xiuju, ZHANG Yuefeng, ZHANG Xuejun,
ZHAO Aiqin, ZHANG Qiuling, WU Zhengwen, CHEN Songyun(124)
- Estimation on farmland carrying capacity for livestock and poultry manure
based on farmland soil antibiotics ecological risk values
..... CHU Tianshu, WANG Bingxiong, MENG Tan, LAI Shixuan, YANG Zengling(138)
- Research on evaluation of the importance of ecological protection in Kunming
city oriented to spatial planning
..... FANG Yishu, ZU Jian, AI Dong, CHEN Jie, LIANG Qiuyue(152)
- Analysis of spatial and temporal change characteristics of forest land and its driving forces in key areas
..... CUI Lvyuan, LI Jing, DENG Xiaojuan, WANG Yuan, CHU Jingjing(164)
- PVAR model analysis of the impact of urbanization on agricultural carbon emissions
based on the panel data of Anhui Province ZENG Zhen, HAN Jiqin, WU Yigen(176)
- Analysis of crop yield variation characteristics in Northeast China and the
response to meteorological drought
..... HAN Donghui, ZHAO Jinyuan, HU Qi, PAN Xuebiao, WANG Ping,
YI Guoqing, GUO Yingda, WANG Haoran, HE Huayun, CHEN Lixin(188)
- Heterogeneity of production function and regional agricultural economic growth:
An empirical study based on the spatio-temporal heterogeneous elasticity
production function model HU Chenpei, LI Huishang, NIE Fengying(201)
- Border effect of agricultural trade between China and the countries along the Belt and Road:
An analysis based on the GSIM model YIN Jun, PANG Yipu, DANG Jingqi(212)
- Effect of temporary purchase and storage policy exit on the price discovery
function in maize futures and spot markets LI Xinyi, ZHU Mande, YAO Zhi(227)
- Farmers' adaptation to climate change and its impact on grain yield
..... GAO Xue, LI Gucheng, YIN Chaojing(240)
- Social capital, ecological cognition and rational fertilization behavior of farmers:
Empirical analysis based on structural equation model
..... XIAO Yu, QI Zhenhong, YANG Caiyan, LIU Zhe(249)