

目 次

棉花应用脱叶催熟剂对后茬小麦生长及产量的影响

..... 汤可心 霍旖旎 宋兴虎 张祥 李亚兵 杜明伟 田晓莉 李召虎(1)

比较 3 种方法制备的农杆菌侵染玉米自交系‘B 104’幼胚的效率

..... 冯鑫磊 李结平(11)

缺氮胁迫对谷子幼苗生长发育的影响

..... 鲁一薇 崔纪菡 郭帅 李顺国 校诺娅 刘寒双 刘猛 夏雪岩(18)

黍子矮秆突变体‘87’表型及对赤霉素敏感性分析

..... 郭英杰 刘晓婕 张帅 刘洋 张萍 许晨晨 朱学海(26)

外源乙烯利对禾谷炭疽菌生物学特性的影响及转 *BtACO* 基因植物的抗病性评价

..... 杨利艳 郭晓娣 张玉荣 边璐 刘金香(33)

酸性红壤添加石灰对甜玉米幼苗生长、养分累积和土壤理化性质的影响

..... 张思文 陈晓辉 蔡远扬 纪宗君 陈圆

朱齐超 余文慧 张福锁 吴良泉(41)

我国小麦病虫草害防治农药减施增效技术研究进展

..... 史雪岩 李红宝 王海光 王凤涛 曹世勤(53)

基于卷积块注意力胶囊网络的小样本水稻害虫识别 曾伟辉 唐欣 胡根生 梁栋(63)

中国奶牛牛支原体流行病学调查分析

..... 温靖 李丹 郭婷 武春霞 周雅坪 田广原 罗玉霞 郝永清(75)

不同水平甘蔗糖蜜酵母发酵浓缩液对奶牛生产性能和血清生化指标的影响

..... 邓波波 宁丽丽 王留香 张笑然 马晓宇 姜茂成 赵国琦(83)

蒙古马(斑点)胎儿期黑白毛色区域皮肤组织相关基因表达分析

..... 白东义 拉希玛 图格琴 赵若阳 陶娜拉 韩海格

..... 丁文淇 贾紫洁 刘慧莹 王文兴 黄博光 芒来(96)

山羊 *KLF16* 对肌内前体脂肪细胞分化的影响

..... 李鑫 张浩 王佳美 王永 俄木曲者 李艳艳 朱江江 林亚秋(106)

一株纤维降解菌的鉴定及其对酒糟固态发酵效果的研究

..... 代秦丹 黎光杨 汪成 马健 胡瑞 李翔 姚小鹤

..... 邹华围 王之盛 彭全辉 薛白 王立志(119)

基于尿液激素母猪发情辅助检测分析

..... 雷凯栋 滕光辉 温艳斌 冯飞起 宗超 孟奎(133)

东方蜜蜂微孢子虫蓖麻毒素 B 凝集素基因的分子克隆及生物信息学分析	范元婵 王杰 孙明会 吴鹰 余岢骏 王心蕊 叶亚萍 钱加珺 张凯遜 王思懿 陈大福 郭睿(138)
自然生草和蚯蚓对渭北旱塬苹果园土壤特性及苹果品质的影响	白岗栓 邹超煌 邵发琦 杨凯齐(146)
不同柚品种果实总酚、总黄酮及植酸的积累特征	宋彪 徐凯悦 MUNEER Muhammad Atif 吴肇正 庄木来 林红梅 郭九信 吴良泉 苏达(158)
基于环介导等温扩增技术的草莓枯萎病检测	侯圣凡 刘峻杰 李小峰 王红清(172)
食用菌菌糠堆肥化发酵特性及腐熟进程	徐瑞蔓 李茜 孙宇 陈迪 赵洪颜 袁旭峰 朴仁哲(181)
有机硼交联纤维素基高吸水性树脂的制备及性能表征	茹桦 王宇欣 王平智(194)
水稻机械化生产技术产教协同推广模式的构建与应用	雷小龙 陈勇 王金华 周虹 邓飞 周伟 陶有凤 胡剑锋 陶诗顺 任万军(202)
基于国产微控制器节水灌溉首部枢纽控制系统设计	李晓乐 朱梅 范舟 栗昕羽(211)
安庆都市圈生态系统服务权衡与协同	黄颖 税伟 温铁军 张林波 张永永(217)
土地集约利用时空变化对土地财政的响应	张宁 白中科 张志辉(229)
农业社会化服务组织、土地规模和农户绿色生产意愿与行为的悖离	石志恒 符越(240)
地块连片特征如何影响土地生产率	张丽媛 万江红(255)
农地转出对象熟人化	——“乡土社会的情感依赖”还是“不完全信息的有限理性”蔡键 郭欣琪(270)
环境规制政策下养殖户环境风险感知对粪污资源化处理意愿的影响	——以肉鸭养殖户为例赵佳佳 刘灵芝(282)
中国省域耕地与灌溉水资源利用效率及其耦合协调度的空间相关性分析	朱丽娟 陆秋雨(297)

CONTENTS

- Effect of application of harvest aids in cotton on the emergence, growth and yield of subsequent wheat TANG Kexin, HUO Yini, SONG Xinghu, ZHANG Xiang, LI Yabing, DU Mingwei, TIAN Xiaoli, LI Zhaochu (1)
- Comparison of the efficiency of *Agrobacterium* prepared by three different methods infecting the immature embryo of a transient infecting maize inbred line ‘B 104’ FENG Xinlei, LI Jieping (11)
- Effects of nitrogen deficiency stress on the growth of foxtail millet seedlings LU Yiwei, CUI Jihan, GUO Shuai, LI Shunguo, XIAO Nuoya, LIU Hanshuang, LIU Meng, XIA Xueyan (18)
- Phenotypic variations and GA sensitivity analysis of broomcorn millet dwarf mutant ‘87’ GUO YingJie, LIU XiaoJie, ZHANG Shuai, LIU Yang, ZHANG Ping, XU Chenchen, ZHU Xuehai (26)
- Effects of exogenous ethephon on the biological characteristics of *Colletotrichum gloeosporioides* and disease resistance evaluation of *BtACO* plants YANG Liyan, GUO Xiaodi, ZHANG Yurong, BIAN Lu, LIU Jinxiang (33)
- Effects of supplement of lime in acidic red soil on the sweet maize seedling growth, nutrient accumulation, and soil physi-chemical properties ZHANG Siwen, CHEN Xiaohui, CAI Yuanyang, JI Zongjun, CHEN Yuan, ZHU Qichao, YU Wenhui, ZHANG Fusuo, WU Liangquan (41)
- Progresses of pesticide reduction techniques in wheat production and the synergistic effects on the prevention and control of wheat pests SHI Xueyan, LI Hongbao, WANG Haiguang, WANG Fengtao, CAO Shiqin (53)
- Rice pests recognition with small number of samples based on CBAM and capsule network ZENG Weihui, TANG Xin, HUGensheng, LIANG Dong (63)
- Epidemiological investigation and analysis of *Mycoplasma bovis* in different dairy farming areas in China WEN Jing, LI Dan, GUO Ting, WU Chunxia, ZHOU Yaping, TIAN Guangyuan, LUO Yuxia, HAO Yongqing (75)
- Effects of different levels of cane molasses saccharomyces cerevisiae on the performance and serum biochemical profile of dairy cows DENG Bobo, NING Lili, WANG Liuxiang, ZHANG Xiaoran, MA Xiaoyu, JIANG Maocheng, ZHAO Guoqi (83)
- Expression of related genes in fetal black and white area skin of Mongolian spotted horse BAI Dongyi, Laxima, Tugeqin, ZHAO Ruoyang, TAO Nala, HAN Haige, DING Wenqi, JIA Zijie, LIU Huiying, WANG Wenxing, HUANG Boguang, Manglai (96)
- Effect of *KLF16* on the differentiation of goat intramuscular preadipocytes LI Xin, ZHANG Hao, WANG Jiamei, WANG Yong, Emu quzhe, LI Yanyan, ZHU Jiangjiang, LIN Yaqiu (106)
- Identification of one fiber degrading bacterium and its effect on solid fermentation of distillers’ grains DAI Qindan, LI Guangyang, WANG Cheng, MA Jian, HURui, LI Xiang, Yao Xiaohe, ZOU Huawei, WANG Zhisheng, PENG Quanhui, XUE Bai, WANG Lizhi (119)

- Auxiliary analysis of sow estrus detection based on pheromone in urine LEI Kaidong , TENG Guanghui , WEN Yanbin , FENG Feiqi , ZONG Chao , MENG Kui (133)
- Molecular cloning and bioinformatic analysis of *Nosema ceranae* ricin B-lectin gene FAN Yuanchan , WANG Jie , SUN Minghui , WU Ying , YU Kejun , WANG Xinrui , YE Yaping , QIAN Jiajun , ZHANG Kaiyao , WANG Siyi , CHEN Dafu , GUO Rui (138)
- Effects of self-sown grass and earthworm on the soil property and apple quality of apple orchards in Weibei dry plateau BAI Gangshuan , ZOU Chaoyu , SHAO Faqi , YANG Kaiqi (146)
- Accumulation characteristics of fruits total phenolics, total flavonoids and phytic acid in various pomelo varieties SONG Biao , XU Kaiyue , MUNEER Muhammad Atif , WU Zhaozheng , ZHUANG Mulai , LIN Hongmei , GUO Jiuxin , WU Liangquan , SU Da (158)
- Detection of the causal agent of strawberry *Fusarium* wilt by loop-mediated isothermal amplification HOU Shengfan , LIU Junjie , LI Xiaofeng , WANG Hongqing (172)
- Fermentation characteristics and decay process of edible fungi and bran composting XU Ruiman , LI Xi , SUN Yu , CHEN Di , ZHAO Hongyan , YUAN Xufeng , PIAO Renzhe (181)
- Preparation and performance characterization of organic boron cross-linked cellulose-based superabsorbent resin RU Hua , WANG Yuxin , WANG Pingzhi (194)
- Construction and application of cooperative extension mode of rice mechanization production technology LEI Xiaolong , CHEN Yong , WANG Jinhua , ZHOU Hong , DENG Fei , ZHOU Wei , TAO Youfeng , HU Jianfeng , TAO Shishun , REN Wanjun (202)
- Design of water-saving irrigation head hub control system based on domestic microcontroller LI Xiaole , ZHU Mei , FAN Zhou , LI Xinyu (211)
- Trade-off and synergy relationship of ecosystem services in Anqing metropolitan area HUANG Ying , SHUI Wei , WEN Tiejun , ZHANG Linbo , ZHANG Yongyong (217)
- Response of spatiotemporal change of intensive land use to land finance ZHANG Ning , BAI Zhongke , ZHANG Zhihui (229)
- Agricultural socialized service organization, land scale and the contradiction between farmers' green production willingness and behavior SHI Zhiheng , FU Yue (240)
- How does the contiguous characteristics of plots affect land productivity ZHANG Liyuan , WAN Jianghong (255)
- Acquaintances of farmland transfer objects:
“Emotional dependence of rural society” or “limited rationality of incomplete information” CAI Jian , GUO Xinqi (270)
- Influence of farmers' perception of environmental risks on their willingness to treat manure as a resource under environmental regulation policies:
Taking meat duck farmers as an example ZHAO Jiajia , LIU Lingzhi (282)
- The use efficiency of cultivated land and irrigation water and the spatial correlation analysis of its coupling coordination in China ZHU Lijuan , LU Qiuyu (297)