

目 次

农业科学

- 春播早熟高粱区试点综合评价研究..... 王阳 李继洪 陈冰孺 高士杰(1)
- 极度缺水条件下玉米穗部性状对产量的影响
..... 李兴 程满金 王勇 勾芒芒(8)
- 根系分隔和施氮对蚕豆/玉米间作体系根系分布和形态的影响
..... 李玉英 庞发虎 孙建好 李隆 程序(13)
- 玉米须多糖理化特性及免疫调节活性研究 贾亚敏 朱艳霞 郭玉海(20)
- ABA 对甜瓜果实成熟和软化的调节
..... 杨晓玉 王艳萍 冷平 王灿磊 刘姝彤 胡莹(25)
- 毛棉杜鹃芽形态分化期间封顶叶内源激素含量变化的研究
..... 谢利娟 孙敏 赵梁军 王定跃(33)
- 无刺桅杆槐和无刺槐再生体系的研究
..... 田琳琳 赵梁军 张睿 陈晓丽(39)
- 南方根结线虫与秀丽线虫同源基因的鉴定及其应用分析
..... 黄利 王宇 董林林 左元梅(45)
- 嫁接对黄瓜土壤生化特性的影响 董林林 左元梅 李晓林 王倩(51)
- 基于农户土地利用目标差异的农用地利用变化机制研究
..... 孔祥斌 李翠珍 张凤荣 鄢文聚(57)
- 瘤胃古菌的多样性研究进展 刘开朗 王加启 卜登攀 李旦(65)
- 西农萨能奶山羊 *DGAT2* 基因第5内含子多态性与产奶性状的关联分析
..... 朱春梅 曹斌云 颜泉梅 杨莎 安小鹏(71)
- 日粮铜铝水平对辽宁绒山羊营养物质消化代谢的影响
..... 金艳华 朱晓萍 贾志海 张微 李洪根(76)

日粮添加过瘤胃赖氨酸对利木赞杂交肉牛胴体性状和肉质的影响

..... 薛丰 郭晓旭 郭望山 任丽萍 孟庆翔(82)

25-羟基胆钙化醇和耐热性植酸酶降低北京鸭日粮有效磷水平的研究

..... 朱建军 田科雄 袁建敏 张炳坤 黄春喜 闫磊 庄海滨(87)

牛奶中4种阿维菌素类药物的高效液相色谱快速测定

..... 程林丽 安洪泽 沈建忠 曹斌斌 黄兴华(95)

杀鼠剂溴敌隆与小牛胸腺DNA的相互作用

..... 段云青 闵顺耕 段志青 熊艳梅(99)

不同温度贮藏期间团头鲂品质的变化规律

..... 宋永令 罗永康 张丽娜 刘蕾(104)

不同加工方式对香椿多酚抗氧化活性的影响

..... 朱宏 陈敏 孙恬 杜健 王军(111)

农业工程

联合收割机驾驶室人机工程试验台的研制

..... 葛源慧 仇莹 朱忠祥 毛恩荣 宋正河 王尚俊
马煜 扈伟斌 朱现学(115)

油菜分段收获脱粒分离功率消耗试验研究

..... 张敏 吴崇友 卢晏 余山山 于修刚(120)

降雨条件下电解质示踪正态模型的应用..... 史晓楠 雷廷武 张勇(124)

磁电热弹耦合材料弹塑性断裂问题..... 张琳楠 秦太验 李晓娟 朱伯靖(130)

科研简讯 (24)

CONTENTS

Agricultural Science

- Comprehensive evaluation of trial sites for early-mature sorghum cultivar in the spring-planting regions
..... WANG Yang, LI Ji-hong, CHEN Bing-xu, GAO Shi-jie(1)
- Study on maize yield and its ear characters under water-limited conditions
..... LI Xing, CHENG Man-jin, WANG Yong, GOU Mang-mang(8)
- Effects of root barrier between intercropped maize and faba bean and nitrogen (N) application on
the spatial distributions and morphology of crops' roots
..... LI Yu-ying, PANG Fa-hu, SUN Jian-hao, LI Long, CHENG Xu(13)
- Physical and chemical properties of corn silk polysaccharide and its immunity activity
..... JIA Ya-min, ZHU Yan-xia, GUO Yu-hai(20)
- Effect of abscisic acid(ABA) on melon fruit ripening and softening YANG Xiao-yu,
WANG Yan-ping, LENG Ping, WANG Can-lei, LIU Shu-tong, HU Ying(25)
- Quantitative variation of endogenous hormones in *Rhododendron moulmainense* Hook. f. leaf under
buds during buds morphological differentiation
..... XIE Li-juan, SUN Min, ZHAO Liang-jun, WANG Ding-yue(33)
- Regeneration for *Robinia pseudoacacia* var. *Inermis* and *Robinia pseudoacacia* var. *rectissima* 'inermis'
..... TIAN Lin-lin, ZHAO Liang-jun, ZHANG Rui, CHEN Xiao-li(39)
- Identification and analysis of the homologous genes between *Meloidogyne incognita* and
Caenorhabditis elegans HUANG Li, WANG Yu, DONG Lin-lin, ZUO Yuan-mei(45)
- Effects of grafting on cucumber soil biochemistry
..... DONG Lin-lin, ZUO Yuan-mei, LI Xiao-lin, WANG Qian(51)
- Study on agricultural land use change mechanism based on household's objective differences
..... KONG Xiang-bin, LI Cui-zhen, ZHANG Feng-rong, YUN Wen-ju(57)
- Current status of archaea diversity census in the rumen
..... LIU Kai-lang, WANG Jia-qi, BU Deng-pan, LI Dan(65)

Association between polymorphism of intron 5 of DGAT2 gene and milk production in Xinong Saanen dairy goats ... ZHU Chun-mei, CAO Bin-yun, YAN Quan-mei, YANG Sha, AN Xiao-peng(71)

Influence of copper and molybdenum supplementation on nutrient digestion and metabolism in Liaoning cashmere goats JIN Yan-hua, ZHU Xiao-pin, JIA Zhi-hai, ZHANG Wei, Li Hong-gen(76)

Effect of dietary rumen-protected lysine supplementation level on carcass characteristics and meat quality of Limousin crossbred beef cattle XUE Feng, GUO Xiao-xu, GUO Wang-shan, REN Li-ping, MENG Qing-xiang(82)

Effect of 25-hydroxycholecalciferol and phytase on phosphorus level of the Beijing Duck diet ZHU Jian-jun, TIAN Ke-xiong, YUAN Jian-min, ZHANG Bing-kun, HUANG Chun-xi, YAN Lei, ZHUANG Hai-bin(87)

Rapid HPLC for quantitation of 4 kinds of avermectin residues in milk CHENG Lin-li, AN Hong-ze, SHEN Jian-zhong, CAO Bin-bin, HUANG Xing-hua(95)

Study on interaction of rodenticide bromadiolone with calf thymus deoxyribonucleic acid DUAN Yun-qing, MIN Shun-geng, DUAN Zhi-qing, XIONG Yan-mei(99)

Study on bream(*Megalobrama amblycephala*) quality variation during storage under different temperatures SONG Yong-ling, LUO Yong-kang, ZHANG Li-na, LIU Lei(104)

Effect of different processing approaches on antioxidant activity of toona sinensis polyphones ZHU Hong, CHEN Min, SUN Tian, DU Jian, WANG Jun(111)

Agricultural Engineering

Development of experimental platform for ergonomics in combine cab GE Yuan-hui, QIU Ying, ZHU Zhong-xiang, MAO En-rong, SONG Zheng-he, WANG Shang-jun, MA Yu, HU Wei-bin, ZHU Xian-xue(115)

Experimental study of power consumption on threshing and separating of canola indirect harvest ZHANG Min, WU Chong-you, LU Yan, YU Shan-shan, YU Xiu-gang(120)

Test of the normal distribution model of electrolyte tracer under rainfall simulation conditions SHI Xiao-nan, LEI Ting-wu, ZHANG Yong(124)

Fracture of electro-magneto-thermo-elasto-plastic multiphase composites ZHANG Lin-nan, QIN Tai-yan, LI Xiao-juan, ZHU Bo-jing(130)