

中国科技核心期刊 万方数据库收录
中国学术期刊网络出版总库 (CNKI 数据库) 收录
中国农业机械化科学研究院主管 北京卓众出版有限公司主办

QK1922208

农业工程

4
2019

AGRICULTURAL ENGINEERING

NONGYE GONGCHENG

第9卷 Vol.9

广告

服务农机精英

农机精英俱乐部



ISSN 2095-1795



9 772095 179190

万方数据

FARM 农业机械杂志社
www.zhiguker.com



扫码加入

农业工程

NONGYE GONGCHENG

2019年 第4期(第9卷)

目次

• 装备与机械化 •

- 伊犁河谷玉米籽粒机械化收获现状及建议 刘 强 杨明花 周大伟 王 瑞 艾尔居马 (1)
- 广西甘蔗机械化收获现状及建议 张长献 鲁 华 (5)
- 拖拉机变速箱常见故障与维修保养 白金国 (10)
- 奶山羊标准化、规模化养殖场工程与设备 高玉平 魏 博 于国兴 甄晓晨 (13)

• 信息与电气化 •

- 一种智慧果园系统的设计与实现 袁 帅 宗立波 熊慧君 张 鹏 邓 箴 (20)
- 构建“资源云团”解决精准农业问题 王 勇 董超峰 张利敏 张长红 董 伟 孙战胜 (26)
- 计算机农业应用现状与发展途径 徐海东 (30)
- 互联网温室环境自动控制系统 霍丽娜 (32)

• 生物环境与能源 •

- 青海省3种日光温室冬季温光性能对比 魏晓强 钟启文 张广楠 李 莉 谭 龙 (36)
- 喷雾降温联合自然通风在大跨度温室中的试验 张 芳 方 慧 杨其长 张 义 程瑞锋 (41)
- 黑膜沼气池工艺特点及施工技术 张 凯 杨 林 汪晓峰 尹 燕 徐源畅 (48)
- 西部地区生态循环农业发展途径与体系创新 梁正文 阎 静 (51)
- 我国农村污水治理现状及关键技术 曲 蕙 郭雄伟 张立保 (53)

• 农副产品加工与贮藏 •

- 钙果穿刺试验的质构特性与分析 房大伟 贺俊林 郭玉明 何永强 杜晓斌 孙静鑫 杜俊杰 (56)
- 马铃薯、甘薯及紫薯全粉共线规模化生产技术
..... 李永辉 张清泉 尹学清 卢天齐 毕峰华 何江涛 陈 盼 (61)

• 食品科学与工程 •

- 热风干燥下半干面含水率变化规律 张定东 王富华 梁晓军 王金永 刘 全 李世岩 (66)
- 冻干水果月饼加工工艺技术 陈震东 张延杰 林开中 (70)

• 水利工程 •

新月形沙丘粒度分布的交替过程

——以甘肃省河西沙区绿洲边缘积沙带为例

..... 常兆丰 朱淑娟 段晓峰 张剑挥 王 祺 张德魁 (76)

• 设计制造及理论研究 •

养殖场小型多杆拨齿槽式翻抛机设计 姚爱萍 王 涛 陈长卿 余桂平 柳国光 冯 洋 (83)

拖拉机自动驾驶及控制技术 刘成强 林连华 徐海港 (87)

秸秆切割揉碎装置设计与仿真分析 赵小娟 王俊跃 戴晓军 杨 莉 高晓宏 (92)

• 教学研究 •

生物工程类专业分子生物学教学模式改革 王 川 黄 丹 魏丕伟 赵兴秀 (97)

《水产品加工工艺学》双语课程的调查研究 梁 鹏 魏 微 张 敏 张玲云 赵伟豪 (100)

• 农学与生物技术 •

民族药用植物走马胎快繁技术 王 强 陈国华 陈冬怡 陈红锋 胡群英 李建华 (104)

我国林木遗传育种技术现状与发展趋势 高 璇 (111)

赤霉酸对沧州金丝小枣树生产性能的影响 米淑玲 (115)

• 农业经济管理 •

发达国家农业规模化生产发展经验及对我国农业发展的思考 潘志国 李 晨 杨然兵 (118)

供给侧改革视域下西部农业产业融合发展及优化 马素英 (122)

我国农产品跨境电商出口困境与对策 杜 静 (126)

江苏林业产业化现状及发展对策

——以杨树产业为例 景 旭 黄伟伦 (129)

基于“互联网+”的农业经济发展途径 张炳红 (132)

我国农村物流内涵与特点 王吉寅 (135)

农村“三化”现状及发展建议

——以贵州省黔东南州锦屏县为例 龙厚岚 (138)

农村电商物流企业服务体系构建 张 宁 (141)

• 产业观察 •

2019 年农机购置补贴政策 4 大变化，绿色需求产品应补尽补 晓 琳 (前插 1)

AGRICULTURAL ENGINEERING

Vol. 9 No. 4 2019

Contents

Equipment and Mechanization

- Present Situation and Suggestions of Corn Grain Mechanized Harvesting in Yili Valley
..... LIU Qiang, YANG Minghua, ZHOU Dawei, WANG Rui, Aierjuma (1)
- Current Situation and Suggestions of Sugarcane Harvest Mechanization in Guangxi
..... ZHANG Changxian, LU Hua (5)
- Common Malfunction and Maintenance of Tractor Gearbox BAI Jinguo (10)
- Engineering and Equipment of Standardized and Large-scale Farm for Milk Goat
..... GAO Yuping, WEI Bo, YU Guoxing, ZHEN Xiaochen (13)

Information and Electrification

- Design and Implementation of a Kind of Intelligent Orchard System
..... YUAN Shuai, ZONG Libo, XIONG Huijun, ZHANG Peng, DENG Zhen (20)
- Construct “Resource Cloud” to Solve Problems of Precision Agriculture
..... WANG Yong, DONG Chaofeng, ZHANG Limin, ZHANG Changhong, DONG Wei, SUN Zhansheng (26)
- Application Status and Development Approaches of Computer Agriculture XU Haidong (30)
- Internet Greenhouse Environment Automatic Control System HUO Lina (32)

Biological Environment and Energy

- Comparison on Temperature and Light Performance of Three Kinds of Solar Greenhouse in Winter in Qinghai
..... WEI Xiaoqiang, ZHONG Qiwen, ZHANG Guangnan, LI Li, TAN Long (36)
- Experimental Investigation of High-pressure Fogging System Applied with Natural Ventilation in
Large Span Greenhouse ZHANG Fang, FANG Hui, YANG Qichang, ZHANG Yi, CHENG Ruifeng (41)
- Technical Characteristics and Construction Technology of Black Membrane Biogas Digester
..... ZHANG Kai, YANG Lin, WANG Xiaofeng, YIN Yan, XU Yuanchang (48)
- Development Path and System Innovation of Ecological Circular Agriculture in Western China
..... LIANG Zhengwen, YAN Jing (51)
- Current Situation and Key Technology of Rural Sewage Treatment in China
..... QU Hui, GUO Xiongwei, ZHANG Libao (53)

Processing and Storage of Farm and Sideline Products

- Analysis of Texture Properties in *Cerasus humilis* Based on Puncture Test
..... FANG Dawei, HE Junlin, GUO Yuming, HE Yongqiang, DU Xiaobin, SUN Jingxin, DU Junjie (56)
- Potato, Sweet Potato and Purple Potato Flour Collinear Scale Production Technology
..... LI Yonghui, ZHANG Qingquan, YIN Xueqing, LU Tianqi, BI Fenghua, HE Jiangtao, CHEN Pan (61)

Food Science and Engineering

- Law of Moisture Content of Semi-dry Noodle under Hot Air Drying

- ZHANG Dingdong, WANG Fuhua, LIANG Xiaojun, WANG Jinyong, LIU Quan, LI Shiyan (66)
 Processing Technology of Freeze-dried Fruit Moon Cake
 CHEN Zhendong, ZHANG Yanjie, LIN Kaizhong (70)

Water-soil Engineering

- Alternating Processes of Distribution of Grain Size over Barchan Dunes;
 A Case Study of Accumulated Sand-belts of Oasis Edge of Hexi Desert Area of Gansu Province
 CHANG Zhaofeng, ZHU Shujuan, DUAN Xiaofeng, ZHANG Jianhui, WANG Qi, ZHANG Dekui (76)

Design, Manufacture and Theoretical Research

- Design of Small Multi-rod Toothed Turning Machine in Farm
 YAO Aiping, WANG Tao, CHEN Changqing, YU Guiping, LIU Guoguang, FENG Yang (83)
 Tractor Automatic Driving and Control Technology LIU Chengqiang, LIN Lianhua, XU Haigang (87)
 Design and Simulation Analysis of Straw Cutting and Crumbing Device
 ZHAO Xiaojuan, WANG Junyue, DAI Xiaojun, YANG Li, GAO Xiaohong (92)

Research on Teaching

- Reform of Teaching Mode of Molecular Biology for Bioengineering Major
 WANG Chuan, HUANG Dan, WEI Piwei, ZHAO Xingxiu (97)
 Investigation and Analysis of Bilingual Teaching Used in “*Technology for Aquatic Product Processing*”
 LIANG Peng, WEI Wei, ZHANG Min, ZHANG Lingyun, ZHAO Weihao (100)

Agronomy and Biotechnology

- Micropropagation Technique of Ethnic Medicinal Plant *Ardisia gigantifolia* Stapf
 WANG Qiang, CHEN Guohua, CHEN Dongyi, CHEN Hongfeng, HU Qunying, LI Jianhua (104)
 Current Situation and Development Trend of Forest Genetic Breeding Technology in China GAO Xuan (111)
 Effect of Gibberellic Acid on Production Performance of Cangzhou Jinsi Jujube Tree MI Shuling (115)

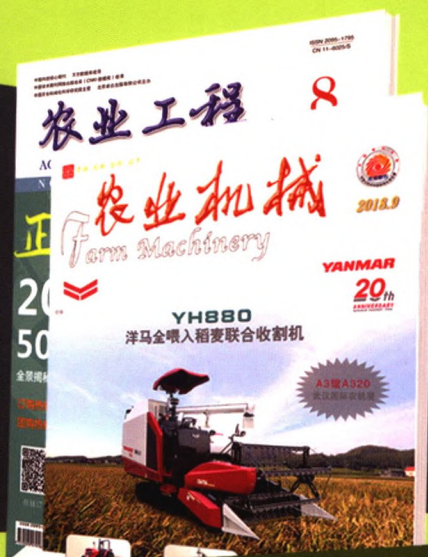
Management of Agricultural Economy

- Development Experience of Agricultural Scale Production in Developed Countries and Reflections on
 China’s Agricultural Development PAN Zhiguo, LI Chen, YANG Ranbing (118)
 Development and Optimization of Agricultural Industry Integration in Western China from Perspective of
 Supply Side Reform MA Suying (122)
 Difficulties and Countermeasures of Export of Agricultural Products Across the Border of China DU Jing (126)
 Current Situation and Development Countermeasures of Forestry Industrialization in Jiangsu Province;
 Taking the Poplar Industry As an Example JING Xu, HUANG Weilun (129)
 Approaches to Agricultural Economic Development Based on “Internet + ” ZHANG Binghong (132)
 Connotation and Characteristics of Rural Logistics in China WANG Jiyin (135)
 Situation and Development Suggestions of “Three-zations” in Rural Areas;
 Taking Jinping County of Qiandongnan Prefecture of Guizhou Province as an Example LONG Houlan (138)
 Construction of Service Capacity System of Rural E-commerce Logistics Enterprises ZHANG Ning (141)



农业机械杂志社

农机发烧君的 杂货铺



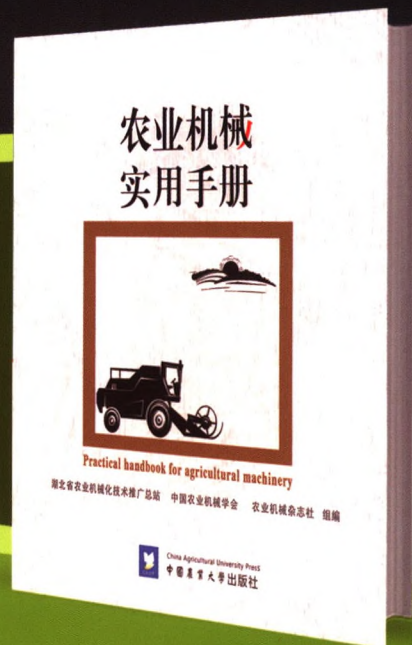
Magazine

杂志订阅

《农业机械》、《农业工程》
全年12期杂志在线订阅

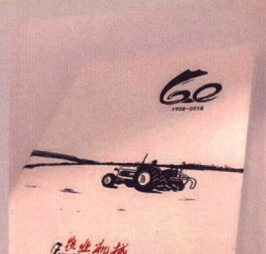
专业书籍 Book

《农业机械实用手册》
让你快速成为农机专业人士的实用书籍



农机模型 Model

拖拉机、收获机、打捆机、插秧机……
各种农机模型



文创用品 Other

农业机械60周年纪念币、农机吉祥物、
农业机械60周年笔记本、定制
帽子、卡包、名片夹等



扫码进入微店
万方数据

www.zhiguker.com

汇聚品质农机人