

农业工程

AGRICULTURAL ENGINEERING

NONGYE GONGCHENG

9
2019

第9卷 Vol.9

广告

推动中国农业机械技术进步及产业升级

以创
新致
未来



扫描二维码关注微信

ISSN 2095-1795



9 772095 179190



中国农业机械化科学研究院
Chinese Academy of Agricultural Mechanization Sciences

农业工程

NONGYE GONGCHENG

2019年 第9期(第9卷)

目 次

• 装备与机械化 •

农业机器人国际竞争态势与研究前沿	袁建霞 张秋菊 胡小鹿 柏雨岑 韦真博 吴海华	(1)
天津市设施农业及机械装备发展特点	冯 磊 梁学强 郭玉林 李 琳 李洁琼 庞俊杰	(6)
马铃薯块茎生物力学与机械特性研究概况	于宝廷 崔 刚 杨德秋 贾晶霞 李 洋 李怡琳	(13)
重庆市潼南区农田宜机化改造推动农业机械化发展的实践与思考	蒋佩荪 何 忠 敖方源 彭维钦	(16)
马铃薯挖掘铲仿生减阻技术研究概况	崔 刚 马云海 杨德秋 贾晶霞 李 洋	(19)
我国地膜回收机械现状与发展趋势		甘富荣 (23)
可靠性技术在农业机械领域中的应用		高 敏 (27)
加强农机化支撑 促进乡村振兴 ——以山西省河津市为例		杜海旺 (30)

• 信息与电气化 •

种蛋孵化性能的光学检测方法	张颖萍 朱 亥 吴 霞	(33)
基于云计算的食品安全监管信息化建设	赵 雷 王思敏	(37)
高校图书馆农业文献信息资源开发利用		郑紫涵 (40)
我国农业信息化精准管理技术重构路径	徐军纪 付少平 孟 燕 刘 波	(43)

• 生物环境与能源 •

畜禽粪污堆肥发酵技术及装备	赵明杰 吴德胜 张雪立 闫 飞 梁 浩 汪 洋 宋晓曼 李俊慧 刘廷发	(46)
温室节能环保材料使用性能评价		卜延宁 (52)
猪舍粪污垫料堆肥工艺流程与翻抛机研究概况		刘 江 张德晖 (55)
生态视角下的农村污水处理技术		吉倩倩 (59)
规模化养猪场粪水处理和资源化利用关键技术	薛同宣 张开心 李成浩 王洪芹	(63)
农村可再生能源开发利用现状与对策	陈 坤 李建忠 张 佳	(67)

• 农副产品加工与贮藏 •

粮食立体仓储升降平台设计		李凌乐 (70)
--------------------	--	------------

• 食品科学与工程 •

不同产地蜜环菌总糖和总糖含量测定	张 琦 孙 莹 王兆丰 王秋颖	(76)
------------------------	-----------------	--------

• 水土工程 •

- 钢筋砼水池软弱地基处理的设计及应用 刘飞鹏 许 婧 (81)
中小型水利工程金属结构和机电设备质量管理 李 凯 房 凯 李 雷 莫 帅 蔡 雷 (85)

• 土地资源管理 •

山丘区中低产田改造评价指标体系构建

- 以云南省沾益县大坡乡为例 石平平 赵 众 欧福超 王 兰 王 静 (88)
乡村振兴战略背景下农村土地资源盘活对策 江凤香 任大鹏 林俊杰 肖润婷 (93)
我国耕地流转绩效评价 刘 艳 (96)

• 设计制造及理论研究 •

- 轮式挖掘机四轮独立转向液压系统设计 杨美镜 刘晓华 陈文凯 (99)
农用车电池包结构振动特性 马 艳 (103)
新型气液分离器设计 何美悦 (108)

• 教学研究 •

- 食品物理加工技术前沿教学实践 任晓锋 梁秋芳 王 蓓 段玉清 何荣海 马海乐 (113)
“互联网 +” 时代农业类在线开放课程建设与实践 宋承继 陈小健 (116)
农学类专业实践教学体系构建 蒋霖韵 王 颇 王 琳 (119)

• 农学与生物技术 •

- 农机农艺结合对提高小麦播种质量的促进作用 王守超 (122)
刺槐新品种 “泓森槐” 的选育 侯金波 张明龙 陈培培 杨倩倩 谭晓风 (125)

• 农业经济管理 •

- 农民职业化在发展现代农业中的作用 张红林 (128)
互联网需求端大数据在农业发展中的应用 王利锋 (131)
日本农副产品加工产业分析及对我国的启示 姜 丽 (138)
我国农业补贴政策发展历程及改善措施 刘 云 符玉亭 (141)
“互联网 + 农业” 经济模式及建议 杨 红 栗小丹 (144)
广西农业循环经济发展现状及对策 张 琨 王宏伟 (147)
农村电子商务发展模式选择 贾澄英 杜轶龙 张 蓉 (150)

• 产业观察 •

- 国家补贴生猪养殖设备购置，农机的机遇来了 晓 琳 (前插 1)

AGRICULTURAL ENGINEERING

Vol. 9 No. 9 2019

Contents

Equipment and Mechanization

- International Competition Situation and Research Fronts on Agricultural Robots YUAN Jianxia, ZHANG Qiuju, HU Xiaolu, BAI Yuqin, WEI Zhenbo, WU Haihua (1)
Development Characteristics of Facility Agriculture and Machinery Equipment in Tianjin FENG Lei, LIANG Xueqiang, GUO Yulin, LI Lin, LI Jieqiong, PANG Junjie (6)
General Situation about Biosbiomechanics and Machinery Features of Potato Tubers YU Baoting, CUI Gang, YANG Deqiu, JIA Jingxia, LI Yang, LI Yilin (13)
Practice and Consideration on Promoting Agricultural Mechanization Development by Agricultural Mechanization Reform in Tongnan District of Chongqing City JIANG Peisun, HE Zhong, AO Fangyuan, PENG Weiqin (16)
Research Situation of Bionic Resistance Reducing Technology about Potato Digging Shovel CUI Gang, MA Yunhai, YANG Deqiu, JIA Jingxia, LI Yang (19)
Current Situation and Development Trend of Plastic Film Recycling Machinery in China GAN Furong (23)
Application of Reliability Technology in Field of Agricultural Machinery GAO Min (27)
Strengthen Agricultural Mechanization to Support Rural Revitalization
A Case Study of Hejin City in Shanxi Province DU Haiwang (30)

Information and Electrification

- Optical Detection Method for Hatching Ability of Eggs ZHANG Yingping, ZHU Hai, WU Xia (33)
Food Safety Regulatory Informatization Construction Based on Cloud Computing ZHAO Lei, WANG Simin (37)
Development and Utilization of Agricultural Literature Information Resources in University Libraries ZHENG Zihan (40)
Reconstructing Technical Path of Precision Management of Agricultural Informatization in China XU Junji, FU Shaoping, MENG Yan, LIU Bo (43)

Biological Environment and Energy

- Fermentation Technology and Equipment of Livestock and Poultry Waste Compost ZHAO Mingjie, WU Desheng, ZHANG Xueli, YAN Fei, LIANG Hao, WANG Yang, SONG Xiaomin, LI Junhui, LIU Tingfa (46)
Performance Evaluation of Greenhouse Energy-saving and Environmental Protection Materials BU Yanning (52)
Pig House Dung Mat Material Composting Process and Overview of Research on Turning Machine LIU Jiang, ZHANG Dehui (55)
Rural Sewage Treatment Technology from Ecological Perspective JI Qianqian (59)
Key Technologies for Treatment and Resource Utilization of Large-scale Pig Farms XUE Tongxuan, ZHANG Kaixin, LI Chenghao, WANG Hongqin (63)
Current Situation and Countermeasure of Development and Utilization of Renewable Energy in Rural Areas CHEN Kun, LI Jianzhong, ZHANG Jia (67)

Processing and Storage of Farm and Sideline Products

- Design of Lifting Platform for Grain Stereoscopic Storage LI Lingle (70)

Food Science and Engineering

- Determination of Total Polysaccharides and Total Terpenes in *Armillaria mellea* in Different Producing Areas ZHANG Qi, SUN Ying, WANG Zhaofeng, WANG Qiuying (76)

Water-soil Engineering

- Design and Application of Soft Foundation Treatment for Reinforced Concrete Pool LIU Feipeng, XU Jing (81)
Quality Management of Metal Structure and Mechanical and Electrical Equipment in Small and Medium Sized Water Conservancy Project LI Kai, FANG Kai, LI Lei, MO Shuai, CAI Lei (85)

Land Resource Management

- Comprehensive Evaluation of Transformation of Medium and Low Yield Fields Based on Analytic Hierarchy Process A Case Study of Dapo Township, Zhanyi County, Yunnan Province SHI Pingping, ZHAO Zhong, OU Fuchao, WANG Lan, WANG Jing (88)
Countermeasures for Revitalization of Rural Land Resources under Background of Rural Revitalization Strategy JIANG Fengxiang, REN Dapeng, LIN Junjie, XIAO Runtu (93)
Performance Evaluation of Cultivated Land Transfer in China LIU Yan (96)

Design, Manufacture and Theoretical Research

- Design of Four-wheel Independent Steering Hydraulic System for Wheel Excavator YANG Meijing, LIU Xiaohua, CHEN Wenkai (99)
Vibration Characteristic of Battery Pack Structure of Agricultural Vehicle MA Yan (103)
Design of New Gas-liquid Separator HE Meiyue (108)

Research on Teaching

- Teaching Practice on Frontier of Food Physical Processing Technology REN Xiaofeng, LIANG Qiufang, WANG Bei, DUAN Yuqing, HE Ronghai, MA Haile (113)
Construction and Practice on Online Open Course of Agriculture in “Internet +” Age SONG Chengji, CHEN Xiaojian (116)
Construction of Practical Teaching System for Agricultural Specialty CHANG Linyun, WANG Po, WANG Lin (119)

Agronomy and Biotechnology

- Promotion of Combination of Agricultural Machinery and Agronomy on Improvement of Sowing Quality of Wheat WANG Shouchao (122)
Breeding Selection of New Cultivar of *Robinia pseudoacacia* “Hongsen Robinia” HOU Jinbo, ZHANG Minglong, CHEN Peipei, YANG Qianqian, TAN Xiaofeng (125)

Management of Agricultural Economy

- Significance of Farmer Professionalization in Developing Modern Agriculture ZHANG Honglin (128)
Application of Internet Demand Side Big Data in Agricultural Development WANG Lifeng (131)
Analysis of Japanese Agricultural By-product Processing Industry and Its Enlightenment to China JIANG Li (138)
Development Course and Improvement Measures of Agriculture Subsidy Policy in China LIU Yun, FU Yuting (141)
Modes and Suggestions of “Internet + Agriculture” Economy Model YANG Hong, LI Xiaodan (144)
Current Situation and Countermeasures of Agricultural Recycling Economy in Guangxi ZHANG Jun, WANG Hongwei (147)
Development Framework and Mode Selection of E-commerce in Rural Areas JIA Chengying, DU Yilong, ZHANG Rong (150)

农业工程

AGRICULTURAL ENGINEERING

中国科技核心期刊

跟踪前沿研究 关注行业发展 报道创新成果 促进推广应用



2020年月刊 全年定价600元

地址：北京德胜门外北沙滩1号16信箱 邮编：100083
电话：010-64882380/3625 邮箱：nygc_2011@163.com d1ae2011@126.com

扫码购买
万方数据

欢迎投稿、订阅、刊登广告

| www.d1ae.com