



中国核心期刊(遴选)数据库全文收录期刊
中国学术期刊综合评价数据库统计源期刊
中国学术期刊(光盘版)全文收录期刊
中文科技期刊数据库全文收录期刊

ISSN 1674-1161

CN 21-1559/S

农业科技与装备

AGRICULTURAL SCIENCE&TECHNOLOGY AND EQUIPMENT

2013年第1期

nongye keji yu zhuangbei



ISSN 1674-1161



01>

9 771674 116083

万方数据

主管单位：辽宁省农村经济委员会
主办单位：辽宁省农业机械化研究所
协办单位：辽宁省农机学会 辽宁省农学会
辽宁省农业工程学会



农业科技与装备

NONGYE KEJI YU ZHUANGBEI

2013年第1期

(总第223期)

1月20日出版

月刊

(1979年4月创刊)

主管单位 辽宁省农村经济委员会

主办单位 辽宁省农业机械化研究所

出版发行 农业科技与装备杂志社

印刷单位 沈阳市东实印刷厂

主编 高希君

责编 刘欣王帅

地址 沈阳市东陵路90号

邮政编码 110161

电 话 024-88416286(传真)

电子邮箱 lnnj3@sohu.com

nykjzb@163.com

网 址 <http://www.lnsnjs.com.cn>

国内统一出版物号 CN 21-1559/S

国际标准连续出版物号 ISSN 1674-1161

发行范围 国内公开发行

订 阅 全国各地邮局

邮发代号 8-211

每期定价 15.00元

声 明 如需转载本刊文章及图片,请注明摘
明 自《农业科技与装备》杂志,并寄样刊

中国核心期刊(遴选)数据库全文收录期刊

中国学术期刊综合评价数据库统计源期刊

目次

品种与栽培

- 设施农业蔬菜栽培技术探讨 张宇(01)
蛇莓在抚顺地区的栽培与应用研究 乘艳(03)

土肥与环境

- 生物炭对土壤中镉的影响研究 杜胜南(06)
大洼县耕地及果园土壤肥力状况分析 李晗(08)

林学与植保

- 毒饵站技术在农区灭鼠中的应用研究 曲昌明(11)

农业工程

- 气力式集中排种器研究设计 谢宇峰,许剑平,梁玉成,郝剑英(14)
钉齿滚筒式脱粒装置的设计 班春华(17)
可调式免耕播种施肥机的设计研究 王玉华(19)
水稻精量穴直播机在辽宁地区的应用研究

- 刘文杰,滕人云,闫涛,高一铭(22)

- 水稻纸膜覆盖插秧机改进设计 闫涛,高一铭,刘文杰(24)

- 生物质炭的物理特性及粘土粘性研究 姜雪,魏臣(26)

- 国内外水稻直播机械化研究进展 高一铭,闫涛,刘文杰(28)

- 温室大棚输送器运行机构设计研究 王晓东(30)

- Inventor 在工程图制作中的应用 刘忠泽(33)

- HOG 算法在机器人 3D 视觉技术中的应用

- 吴鑫,张文广,刘帅(35)

- 基于三维 GIS 技术的配电网可视化系统设计 张静,张作香(38)

- 农村电网线路无功优化智能控制策略与装置

- 刘松志,黄淑萍,谭东明(40)

- 分布式发电系统中的孤岛检测方法研究 郑达,吴秀华(43)

中国学术期刊(光盘版)全文收录期刊
中文科技期刊数据库全文收录期刊

MU CI

- 电阻器的种类及识别 李艳丽(46)
沈阳市“十二五”水土保持规划探讨 赵静(48)
小管出流条件下树莓耗水规律试验研究 李勇, 郑红, 李晓红(51)
地下水数值模拟研究现状及发展趋势 孙放(55)
宽甸县小流域水土保持综合治理研究 臧艳, 郝荣富(57)
高效液相色谱测定葡萄酒中胭脂红的不确定度评定
..... 岑琴, 李智, 江海, 张长虹(59)
水稻插秧机的正确使用 段洪军(62)

技术推广

- 玉米施肥技术要点 李强(64)
玉米精量播种机械化技术研究 刘欣(66)
现代农作制在辽宁地区的应用 程晋(68)
花生收获机的正确使用方法 陈金霞, 刘明国(70)
辽宁玉米收获机械化技术推广应用研究 李常广(72)
辽宁省设施农业生产存在问题及对策 吕霞(74)
辽宁地区水稻大棚育秧机械化发展探析 刘智卓(76)
彰武地区花生品种对比试验 李亚男(78)

论坛交流

- 发展我国农业信息化的意义及措施 时强(80)
阜新市农机专业合作社发展分析 董德胜(82)
中职院校数控技术教学改革建议 李山河(85)
高职院校应用自学考试助学管理模式探讨
..... 刘晓峰, 王美歌, 李甜甜(87)
台安县职教中心办学经验探讨 雷凤宝(89)
高职学生顶岗实习管理措施研究 张丽芳(91)

AGRICULTURAL SCIENCE& TECHNOLOGY AND EQUIPMENT

NO.1,2013
(Total NO.223)
January 20
Monthly
(Started in April 1979)

Administered by

Liaoning Province Rural Economy
Committee

Sponsored by

Liaoning Province Agricultural
Mechanization Institute

Published and Distributed by

Journal of Agricultural S&T and
Equipment

Printed by

Shenyang DongShi Printing House

Editor in Chief

GAO Xijun

Executive Editor

LIU Xin, WANG Shuai

Address

No.90,Dongling Road, Shenyang 110161

Telephone(Fax)

024-88416286

E-mail

lnnj3@sohu.com

nykjyzb@163.com

<http://www.lnsnjs.com.cn>

CN 21-1559/S

ISSN 1674-1161

For reproduction of any articles and pictures
from AGRICULTURAL SCIENCE&TECHNOLOGY
AND EQUIPMENT, please indicate the
source and send us a sample book.

欢 迎 贡 献



Contents

Variety and Cultivation

- Cultivation Techniques of Greenhouse Vegetables *ZHANG Yu(01)*
Cultivation of Mock-strawberry in Fushun *LUAN Yan(03)*

Soil-fertilizer and Environment

- Research on the Influence of Biochar on Soil Cadmium *DU Shengnan(06)*
Analysis on the Soil Fertility of Farmland and Orchard in Dawa County *LI Han(08)*

Forestry and Plant Protection

- Research on the Application of Poison Bait Station Techniques in Rural Deratization *QU Changming(11)*
Agricultural Engineering

- Design of Pneumatic Centralized Seed Metering Device *XIE Yufeng, XU Jianping, LIANG Yucheng, HAO Jianying(14)*
Design of Threshing Device of Spike Tooth Drum-type *BAN Chunhua(17)*
Design of Adjustable Zero-tillage-sowing-fertilizing Machine *WANG Yuhua(19)*
Experimental Research on Rice Direct Seeder for Precise and Hill Sowing in Liaoning

..... *LIU Wenjie, TENG Renyun, YAN Tao, GAO Yiming(22)*

Design for the Improvement of Rice Paper-mulching Transplanter *YAN Tao, GAO Yiming, LIU Wenjie(24)*

Research on the Physical Characters of Biochar and Viscosity of the Clay *JIANG Xue, WEI Chen(26)*

Research and Progress of Direct Rice Seeding Mechanization at Home and Abroad *GAO Yiming, YAN Tao, LIU Wenjie(28)*

Design of the Operating Gear in the Conveyor of Plastic Greenhouse *WANG Xiaodong(30)*

Application of Inventor in Engineering Drawing *LIU Zhongze(33)*

Application of HOG Algorithm in 3D Robot Vision Technology *WU Xin, ZHANG Wenguang, LIU Shuai(35)*

Design of Distribution Network Visualization System Based on 3D GIS Technology *ZHANG Jing, ZHANG Zuoxiang(38)*

Intelligent Control Strategies and Devices of Line Reactive Power Optimization for Rural Power Grid

..... *LIU Songzhi, HUANG Shuping, TAN Dongming(40)*

Research on Island Detection Method in Distributed Power Generation System *ZHENG Da, WU Xiuhua(43)*

Identification and Types of Electrical Resistors *LI Yanli(46)*

Discussion on the Water and Soil Conservation Planning for Shenyang during the 12th Five-year Planning *ZHAO Jing(48)*

Experimental Research on Water Consumption Pattern of Raspberry under Tubelet Irrigation

..... *LI Yong, ZHENG Hong, LI Xiaohong(51)*

Present Research and Development Trend in Numerical Simulation of Underground Water *SUN Fang(55)*

Research on the Comprehensive Treatment of Water and Soil Conservation along Watershed in Kuandian County

..... *ZANG Yan, HAO Rongfu(57)*

Uncertainty Evaluation in Determination of Carmine in Wine by High Performance Liquid Chromatograph

..... *CEN Qin, LI Zhi, JIANG Hai, ZHANG Changhong(59)*

Appropriate Use of Rice Transplanter *DUAN Hongjun(62)*

Technology Extension

Fertilization Techniques in Maize Growth *LI Qiang(64)*

Research on Mechanized Maize Precision Sowing *LIU Xin(66)*

Application of Modern Farming System in Liaoning *CHENG Jin(68)*

Appropriate Use of Peanut Harvester *CHEN Jinxia, LIU Mingguo(70)*

Research on the Application of Mechanized Maize Harvesting in Liaoning *LI Changguang(72)*

Problems in Facility Agricultural Production in Liaoning and Countermeasures *LÜ Xia(74)*

Analysis on the Growth of Mechanized Rice Seedling Cultivation in Plastic Greenhouse in Liaoning *LIU Zhizhuo(76)*

Contrast Experiments of Peanut Varieties in Zhangwu Area *LI Yanan(78)*

Forum and Communication

Significance of and Measures for Chinese Agricultural Informationalization *SHI Qiang(80)*

Analysis on the Growth of Agricultural Machinery Cooperatives in Fuxin City *DONG Desheng(82)*

Teaching Reform of Numerical Control Technology at Secondary Vocational School *LI Shanhe(85)*

Discussion on the Assistance Schooling Management Model Applying Self-taught Exam for Vocational Colleges

..... *LIU Xiaofeng, WANG Meige, LI Tiantian(87)*

Experience in the Growth of Taian Vocational Education Center *LEI Fengbao(89)*

Measures for Management of Post Internship for Higher Vocational Education Students *ZHANG Lifang(91)*