

节水灌溉

2013 11

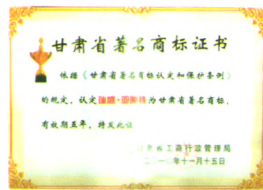
中国国家灌溉排水委员会 中国灌溉排水发展中心
武汉大学 国家节水灌溉北京工程技术研究中心

主办

WATER SAVING IRRIGATION



瑞盛亚美特滴灌管线完全按照国际先进的技术标准生产，采用内嵌式滴头，滴头流量均匀，抗堵塞能力强。地面和地下均可铺设，应用广泛，节约水、肥、人力，性价比高。多种滴头流量和间距可供选择。



ISSN 1007-4929



甘肃瑞盛·亚美特高科技农业有限公司

Gansu Ruisheng-Yamit High-Tech Agriculture Co.,Ltd.

地址：甘肃兰州市城关区张苏滩587号 730020

兰州国家高新技术产业开发区（东区）

电话：0931-8556500, 8537415, 8537403

传真：0931-8555722

网址：www.ruisheng-yamit.com

节水灌溉

2013年第11期 总第219期

目次

□试验研究□

- 涌泉根灌灌水器外套材料配方试验研究 张志华 朱德兰 李向明 等(1)
- 云南高原盆地城市水源地针叶林枯落物持水效应研究 陈严武 史正涛 常龙芳 等(4)
- 叶轮形式对双吸式离心泵叶片泥沙磨损的影响分析 王志远 张凯 钱忠东 等(9)
- 小麦生长季土壤不同形态氮素的含量及淋失特征 赵坤 李一平 卫臻 等(12)
- 保护地大葱水肥一体化滴灌施肥应用研究 张乐森 王振华 孟凡山 等(17)
- 干旱山地苹果幼树节水包滴灌技术研究 毛晨鹏 王延平 雷玉山 等(21)
- 砂土渗透系数的粗粒效应 张平 赵埴 吴昊(25)

□水环境与水资源□

- 秋冬季人工湿地污水处理效果研究 杨杨阳 张练 万蕾(28)
- 岩溶地区水文模型应用研究 卢德宝 史正涛 顾世祥 等(31)
- 一种新型低价吸附剂对 Cr(VI)、Cu(II) 的吸附研究 陈金发(35)
- 生物膜技术在生物-生态修复技术治理污染水体中的研究 魏薇 曹文平(39)
- LID措施在道路雨水利用工程中的应用 李海燕 罗艳红 张悦(44)
- 北京市主要粮食作物不同年份需水特征研究 朱南华 诺娃 马育军(50)

□工程技术□

- 灌区机井用水量控制系统设计 李健华(55)
- 蒸发测量研究在节水灌溉中的应用 曾瑄 马永力(58)
- 基于 ANSYS 的轻小型移动式喷灌机组桁架杆件优化研究 葛茂生 吴普特 朱德兰 等(62)

□工程管理□

- 塔里木河流域绿洲可转让农用水权及其分配问题研究 孙建光 韩桂兰(66)
- 黑龙江平原节水技术模式推广应用潜力研究 吕丽华 梁双波 贾秀领 等(69)
- 新疆农业高效节水微灌工程设计中常见问题及处理措施 郭谨(73)
- 河北省压减农业灌溉地下水措施 苏晓虹 张凤泉 王玉娜 等(76)
- 喷灌技术发展历程及设备存在问题的探讨 史少培 谢崇宝 高虹 等(78)

□信息□

- 欢迎订阅《中国农村水利水电》 (27)
- 喷灌喷泉百家合作专业市场 (49)
- 摘要编写须知 (54)
- 欢迎订阅《节水灌溉》 (65)

Water Saving Irrigation

(Monthly)

November 2013

No. 11(2013), Total No. 219

Contents

Experimental Study on Material Formula of Bubbled-root Irrigation Device Outer Casing	ZHANG Zhi-hua, ZHU De-lan, LI Xiang-ming, et al. (1)
Water-holding Effects of Coniferous Forest Litters of City Water Source in Yunnan Plateau Basin	CHEN Yan-wu, SHI Zheng-tao, CHANG Long-fang, et al. (4)
Effect of Impeller Type on Silt Abrasion of Blade in a Double Suction Centrifugal Pump	WANG Zhi-yuan, ZHANG Kai, QIAN Zhong-dong, et al. (9)
Different Forms of Nitrogen Contents and Distribution Characteristics of Soil at Wheat Growth Season	ZHAO Kun, LI Yi-ping, WEI Zhen, et al. (12)
Integration of Water and Fertilization Through Drip Fertigation for Green Chinese Onion in Protected Field	ZHANG Le-sen, WANG Zhen-hua, MENG Fan-shan, et al. (17)
Water-saving Bag for Drip Irrigation Technique for Young Apple Orchard Cultivation in Dry Hill Land	MAO Chen-peng, WANG Yan-ping, LEI Yu-shan, et al. (21)
Coarse Particle Effects of Permeability Coefficient of Sand	ZHANG Ping, ZHAO Zhi, WU Hao(25)
Treatment Effect of Sewage by Constructed Wetland System in Autumn and Winter	YANG Yang-yang, ZHANG Lian, WAN Lei(28)
Application of Hydrological Model in the Karst Area	LU De-bao, SHI Zheng-tao, GU Shi-xiang, et al. (31)
Study on Biosorption of Cr(VI), Cu(II) by a New Low-cost Adsorbent	CHEN Jin-fa(35)
Application of Biofilm in Biological-ecological Restoration to Control Polluted Water	WEI Wei, CAO Wen-ping(39)
Application of LID in Road Runoff Utilization Engineering	LI Hai-yan, LUO Yan-hong, ZHANG Yue(44)
Water Requirement Characteristics of Major Grain Crops at Different Years in Beijing	ZHU Nanhuanuowa, MA Yu-jun(50)
Design of Water Metering System for Irrigation Motor-Pumped Well	LI Jian-hua(55)
Study on Evaporation Measurement in Water-saving Irrigation	ZENG Xuan, MA Yong-li(58)
Research on Lightweight Design of Sprinkler Irrigation Machine Structure Based on ANSYS	GE Mao-sheng, WU Pu-te, ZHU De-lan, et al. (62)
Research on Transferable Agricultural Water Right and Its Allocation in Arid Oasis in Tarim River Basin	SUN Jian-guang, HAN Gui-lan(66)
Application Potential of Water-Saving Irrigation Mode in Heilonggang Plain	LÜ Li-hua, LIANG Shuang-bo, JIA Xiu-ling, et al. (69)
Common problems and Solutions for Agricultural High-efficiency Water-saving Micro-irrigation Engineering Design in Xinjiang	GUO Jin(73)
Control Measures for Agricultural Irrigation Groundwater Exploitation in Hebei Province	SU Xiao-hong, ZHANG Feng-quan, WANG Yu-na, et al. (76)
Sprinkler Irrigation Technology Development and Existing Equipment Problems	SHI Shao-pei, XIE Chong-bao, GAO Hong, et al. (78)

Competent Authorities: Ministry of Water Resources

Sponsor: Chinese National Committee on Irrigation and Drainage

China Irrigation and Drainage Development Centre

Wuhan University

National Center of Efficient Irrigation Engineering and Technology Research-Beijing

Publisher and editor: Editorial Department of Water Saving Irrigation

(Wuhan University, Wuhan, 430072, China)

Editor in Chief: Li Yuanhua

Distribute Scope: Worldwide

Domestic Subscription: Every Post Office in China

E-mail: jieshuiguangai@188.com

Homepage: [http:// www.irrigate.com.cn](http://www.irrigate.com.cn)