

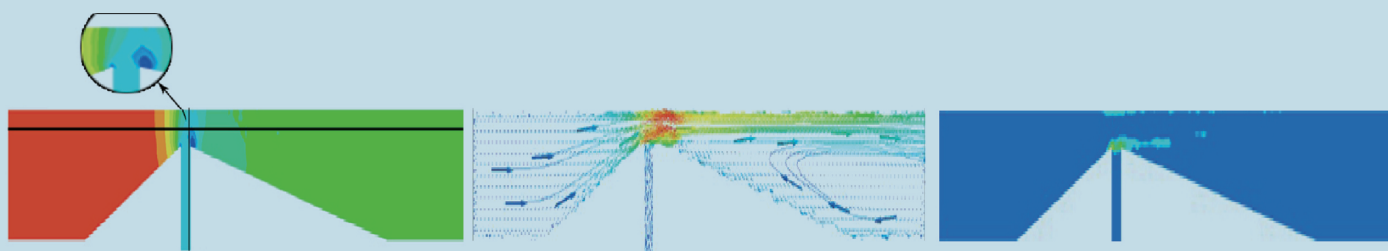
CSCD来源期刊
全国中文核心期刊
中国科技核心期刊
RCCSE中国核心学术期刊
江苏省一级期刊

ISSN 1674-8530
CN 32-1814/TH
CODEN PAJIE2

PAIGUAN JIXIE GONGCHENG XUEBAO

排灌机械工程学报

Journal of Drainage and Irrigation Machinery Engineering



2018

第36卷 第11期
Vol.36 No.11

中国·镇江
Zhenjiang, China

中国农业机械学会排灌机械分会
江苏大学流体机械工程技术研究中心

主办

国家水泵及系统工程技术研究中心
中国农业工程学会农业水土工程专业委员会

协办

目次

● 农业高效用水理论与技术

覆膜和水分亏缺对制种玉米灌浆期气体交换参数及产量的影响	段萌, 毛晓敏, 许尊秋, 赵引, 陈帅, 薄丽媛(1065)
内蒙古自治区参考作物腾发量的时空变化	佟长福, 李和平, 胡翠艳, 张娜, 白利芳, 白儒军, 李小利(1071)
改进 CERES-Maize 模型在玉米膜下滴灌模式下的适用性	付春晓, 龚时宏, 王建东, 张彦群(1076)
河套灌区玉米农田蒸散动态变化及其影响因子的通径分析	刘美含, 史海滨, 李仙岳, 闫建文, 孙伟, 窦旭(1081)
基于 DNDC 模型的北京市大兴区冬小麦农业用水效率	乔帅帅, 魏征, 张宝忠, 胡振华(1087)
干旱沙区降解膜覆盖的玉米生长与耗水规律	丁宗江, 李仙岳, 郭宇, 冷旭, 王美荣(1092)

● 节水灌溉技术与装备

非对称结构文丘里施肥器数值模拟	王海涛, 王建东, 杨彬, 莫彦(1098)
沟灌简易量水槽水力性能探究	薛城, 王文娥, 胡笑涛(1104)
基于异形喷嘴结构的低压喷头水力性能	华琳, 蒋跃, 李红, 周小引(1109)
溶解混施水肥一体化装置施肥性能试验研究	张志洋, 李红, 陈超, 夏华猛(1115)
SD-03 型地埋式喷头水力性能试验研究	陆梦雅, 陆科骥, 胡广, 朱兴业(1120)
圆形喷灌机施肥灌溉均匀性及蒸发漂移损失	张萌, 赵伟霞, 李久生, 栗岩峰(1125)

● 灌区生态保护及信息化

基于水量恒定的渠道前馈控制时间分析	樊玉苗, 高占义, 陈皓锐, 王少丽, 常辉(1131)
基于深度学习的无人机遥感生态灌区杂草分类	王术波, 韩宇, 陈建, 潘越, 曹毅, 孟灏(1137)
室内湿净化砂浆缓冲性能试验研究	吴懿(1142)
改进共原点灰色聚类评价方法在灌区节水改造中的应用	苟万里, 杨路华, 许欣然, 邸志刚(1147)
秸秆还田条件水肥耦合对水稻产量与品质的影响	陈立冬, 杨夏威, 陈伟, 周明耀(1152)
基于 GIS 的赣抚平原灌区数据库构建和空间分析	马林华, 时元智, 才硕, 崔远来(1157)

● 农业水文水资源及调控

长期再生水灌溉后土壤孔隙分布的多重分形特征	管孝艳, 杨培岭, 李柳, 谭亚男(1163)
不同灌溉方式对降雨入渗深度的影响	靳晓辉, 陈敏建, 闫龙, 汪勇, 邓伟(1168)
基于高光谱的区域土壤颗粒组成及有机质预测模型尺度转换	张娜, 张红玲, 张栋良, 屈忠义(1175)
基于 CAR - SVM 模型的季节性冻融区地下水埋深预测	赵天兴, 朱焱, 杨金忠, 毛威(1180)
不同施肥处理对温室葡萄园土壤速效养分含量的影响	张兴国, 胡笑涛, 冉辉, 杜斌, 郝哲, 弓俊武(1187)
多模式多情景下西北内陆干旱区未来气候变化预估	颜楚睿, 刘浏, 黄冠华(1193)
不同种植年限对压砂地土壤盐分及西瓜产量的影响	马中昇, 谭军利, 马小福, 魏童(1200)

CONTENTS

- Effects of water deficit and mulching on leaf gas exchange parameters and yield in seed-maize grain filling stage
..... DUAN Meng, MAO Xiaomin, XU Zunqiu, ZHAO Yin, CHEN Shuai, BO Liyuan(1065)
- Temporal and spatial variation of reference crop evapotranspiration in Inner Mongolia
..... TONG Changfu, LI Heping, HU Cuiyan, ZHANG Na, BAI Lifang, BAI Rujun, LI Xiaoli(1071)
- Applicability of improved CERES-Maize model under mulch drip irrigation of maize
..... FU Chunxiao, GONG Shihong, WANG Jiandong, ZHANG Yanqun(1076)
- Path analysis of evapotranspiration dynamic variation and its influencing factors in Hetao Irrigation District
..... LIU Meihan, SHI Haibin, LI Xian Yue, YAN Jianwen, SUN Wei, DOU Xu(1081)
- Water use efficiency of winter wheat based on DNDC model in Daxing District of Beijing
..... QIAO Shuaishuai, WEI Zheng, ZHANG Baozhong, HU Zhenhua(1087)
- Growth and water consumption of maize under degradable mulch in arid sandy area
..... DING Zongjiang, LI Xian Yue, GUO Yu, LENG Xu, WANG Meirong(1092)
- Numerical simulation of Venturi injector with non-axis-symmetric structure
..... WANG Haitao, WANG Jiandong, YANG Bin, MO Yan(1098)
- Experiment on hydraulic performance of portable triangular-throated flume for field ditch flow measurements
..... XUE Cheng, WANG Wene, HU Xiaotao(1104)
- Hydraulic performance of low pressure sprinkler with special-shaped nozzles
..... HUA Lin, JIANG Yue, LI Hong, ZHOU Xiaoyin(1109)
- Experiment on fertilization performance of dissolved and mixed water – fertilizer integrated device
..... ZHANG Zhiyang, LI Hong, CHEN Chao, XIA Huameng(1115)
- Experiment on hydraulic performance of type SD – 03 pop-up sprinkler
..... LU Mengya, LU Keji, HU Guang, ZHU Xingye(1120)
- Fertigation uniformity and evaporation drift losses of center pivot irrigation system
..... ZHANG Meng, ZHAO Weixia, LI Jiusheng, LI Yanfeng(1125)
- Analysis of canal feedforward control time based on constant water volume
..... FAN Yumiao, GAO Zhanyi, CHEN Haorui, WANG Shaoli, CHANG Hui(1131)
- Weed classification of remote sensing by UAV in ecological irrigation areas based on deep learning
..... WANG Shubo, HAN Yu, CHEN Jian, PAN Yue, CAO Yi, MENG Hao(1137)
- Experiment on buffering performance of indoor moisture purification mortar
..... WU Yi(1142)
- Application of improved gray clustering evaluation method in water-saving reconstruction of irrigation district
..... GOU Wanli, YANG Luhua, XU Xinran, DI Zhigang(1147)
- Effects of water – fertilizer coupling with straw returning on yield and quality of rice
..... CHEN Lidong, YANG Xiawei, CHEN Wei, ZHOU Mingyao(1152)
- GIS-based database construction and spatial analysis of Ganfu Plain Irrigated District
..... MA Linhua, SHI Yuanzhi, CAI Shuo, CUI Yuanlai(1157)
- Multifractal characteristics of soil pore distribution after long-term recycled water irrigation
..... GUAN Xiaoyan, YANG Peiling, LI Liu, TAN Yanan(1163)
- Influences of different irrigation methods on rainfall infiltration depth
..... JIN Xiaohui, CHEN Minjian, YAN Long, WANG Yong, DENG Wei(1168)
- Scale transformation of regional soil particle composition and organic matter prediction models based on hyper-spectrum
..... ZHANG Na, ZHANG Hongling, ZHANG Dongliang, QU Zhongyi(1175)
- Prediction of water table depth in seasonal freezing – thawing areas based on CAR – SVM model
..... ZHAO Tianxing, ZHU Yan, YANG Jinzhong, MAO Wei(1180)
- Effects of fertilization treatments on available nutrient contents in soil of greenhouse vineyard
..... ZHANG Xingguo, HU Xiaotao, RAN Hui, DU Bin, HAO Zhe, GONG Junwu(1187)
- Multi-model projections of future climate change under different RCP scenarios in arid inland region of north China
..... YAN Churui, LIU Liu, HUANG Guanhua(1193)
- Effects of different planting years on soil salinity and watermelon yield in gravel-sand mulched field
..... MA Zhongsheng, TAN Junli, MA Xiaofu, WEI Tong(1200)