

4/2021

ISSN 1008-9209  
CODEN ZXSKFJ

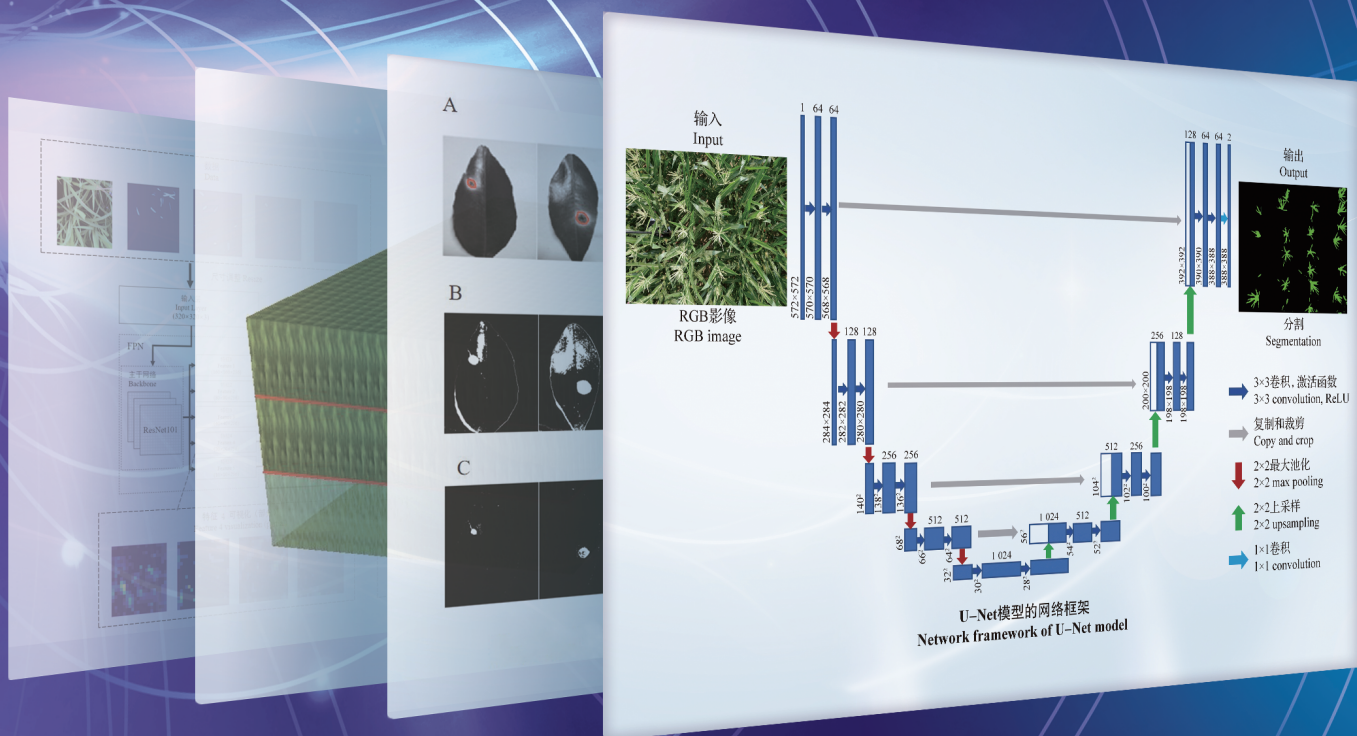
Vol. 47 No. 4 Aug. 2021



# 浙江大学学报

## 农业与生命科学版

Journal of Zhejiang University  
Agriculture and Life Sciences



ISSN 1008-9209



08

9 771008 920218

万方数据

作物表型分析技术及应用专题

Special Topic: Crop Phenotyping Technologies and Applications

目次 Contents

作物表型分析技术及应用专题(Special Topic: Crop Phenotyping Technologies and Applications)

基于RGB图像的冠层尺度水稻叶瘟病斑检测与抗性评估...谢鹏尧,富昊伟,唐政,麻志宏,岑海燕 (415)
RGB imaging-based detection of rice leaf blast spot and resistance evaluation at the canopy scale
...XIE Pengyao, FU Haowei, TANG Zheng, MA Zhihong, CEN Haiyan (415)
基于朴素贝叶斯分类的柑橘叶片溃疡病诊断...束美艳,魏家玺,周也莹,董奇宙,陈浩肿,黄智刚,马韞韬 (429)
Diagnosis of citrus leaf canker disease based on naive Bayesian classification
...SHU Meiyang, WEI Jiayi, ZHOU Yeying, DONG Qizhou, CHEN Haozhong, HUANG Zhigang, MA Yuntao (429)
多层离散各向异性辐射传输模型在玉米叶面积指数垂直分布反演中的应用
...董震,杨贵军,孙林,杨浩,朱耀辉,雷蕾,陈日强,张成健,刘森 (439)
Application of multi-layer discrete anisotropic radiative transfer model in vertical distribution inversion of maize leaf area index
...DONG Zhen, YANG Guijun, SUN Lin, YANG Hao, ZHU Yaohui, LEI Lei, CHEN Riqiang, ZHANG Chengjian, LIU Miao (439)
基于深度学习方法和RGB影像的玉米雄穗分割...余汛,王哲,景海涛,金秀良,聂臣巍,白怡,王铮 (451)
Maize tassel segmentation based on deep learning method and RGB image
...YU Xun, WANG Zhe, JING Haitao, JIN Xiuliang, NIE Chenwei, BAI Yi, WANG Zheng (451)
利用不同红边位置算法估测玉米叶绿素含量...张佳伟,王仲林,谭先明,王贝贝,杨文钰,杨峰 (464)
Estimation of corn chlorophyll content using different red edge position algorithms
...ZHANG Jiawei, WANG Zhonglin, TAN Xianming, WANG Beibei, YANG Wenyu, YANG Feng (464)

综述(Reviews)

植物种子铁储存、运输和再利用分子机制的研究进展...常竣泊,马哲宇,丁忠杰,郑绍建 (473)
Research progresses on molecular mechanisms of storage, transportation and reutilization of plant seed iron
...CHANG Junbo, MA Zheyu, DING Zhongjie, ZHENG Shaojian (473)
RNA甲基化修饰N6-甲基腺苷调控病毒感染研究进展...吉春苗,黄耀伟 (481)
Research advances on the regulation of viral infection by N6-methyladenosine of RNA methylation modification
...JI Chunmiao, HUANG Yaowei (481)

园艺学(Horticulture)

基于黑木耳菌渣的生菜栽培基质研究...柳霖,高峰,韩宁,郑太极,王天龙,周佩华,贺殊敏,王佳佳,傅民杰 (492)
Study on lettuce cultivation substrate based on fungus residue of Auricularia auricula
...LIU Lin, GAO Feng, HAN Ning, ZHENG Taiji, WANG Tianlong, ZHOU Peihua, HE Shumin, WANG Jijia, FU Minjie (492)

资源利用与环境保护(Resource utilization & environmental protection)

农药减施条件下追施硅肥对水稻抗逆性及产量的影响...吴伊鑫,黄奇伟,叶木军,梁永超,彭红云 (507)

Effects of topdressing of silicon fertilizer on stress resistance and yield of rice under reduced pesticide application  
.....WU Yixin, HUANG Qiwei, YE Mujun, LIANG Yongchao, PENG Hongyun (507)

浙江省温岭市土壤pH及氮磷钾养分时空动态变化特征 .....陈睿,丁安娜,施加春 (517)

Spatio-temporal variation characteristics of soil pH, nitrogen, phosphorus and potassium nutrients in Wenling City of Zhejiang Province  
.....CHEN Jian, DING Anna, SHI Jiachun (517)

根际激发效应对土壤有机碳累积及分解的影响 .....莫朝阳,张鑫林,杨京平 (527)

Influence of rhizosphere priming effects on accumulation and decomposition of soil organic carbon  
.....MO Chaoyang, ZHANG Xinlin, YANG Jingping (527)

**动物科学与动物医学 (Animal sciences & veterinary medicine)**

不同品系豚鼠MHC I类基因的多态性及差异表达 .....卫振,何珂,洪胜辉,刘迪文 (534)

Polymorphism and differential expression of MHC class I genes between different strains of guinea pig  
.....WEI Zhen, HE Ke, HONG Shenghui, LIU Diwen (534)

**读者·作者·编者**

欢迎订阅《浙江大学学报(农业与生命科学版)》..... (542)

CN33-1247/S \* 1956 \* b \* A4 \* 132 \* zh + en \* P \* ¥30.00 \* 1 000 \* 12 \* 2021-08

责任编辑 梁 容  
胡清华