



# 土壤学报

(Turang Xuebao)



第 57 卷 第 6 期 2020 年 11 月

## 目 次

### 新视角与前沿

土壤病毒的研究进展与挑战 ..... 王光华 刘俊杰 朱冬等 (1319)

### 综述与评论

场地土壤-地下水污染物多介质界面过程与调控研究进展与展望 ..... 滕应 骆永明 沈仁芳等 (1333)

制革场地土壤和地下水中铬污染来源及污染特征研究进展 ..... 徐腾 南丰 蒋晓锋等 (1341)

湿地甲烷厌氧氧化机制研究进展 ..... 李金业 陈庆锋 尹志超等 (1353)

中国再生稻种植的影响因素及可持续性研究进展 ..... 宋开付 张广斌 徐华等 (1365)

### 研究论文

基于本体的土壤系统分类逻辑表达与检索 ..... 王腊红 陈家赢 汪善勤等 (1378)

不同侵蚀程度花岗岩红壤坡面侵蚀泥沙颗粒特征研究 ..... 张德谦 倪世民 王军光等 (1387)

土壤侵蚀对坡耕地土壤水分及入渗特性影响 ..... 姜义宝 史东梅 江娜等 (1399)

近地表水文条件对横坡垄作坡面褐土团聚体流失的影响 ..... 安娟 陈新军 宋红丽 (1411)

运用同步辐射显微 CT 揭示红壤团聚体内孔隙形态与空间分布 ..... 吴呈锋 於修龄 卢升高 (1422)

云南典型植烟土壤通气孔隙及其主控因素研究 ..... 田育天 李湘伟 谢新乔等 (1430)

包膜含缩节胺氯化钾对棉花产量及土壤钾素的影响 ..... 杨修一 于起庆 耿计彪等 (1439)

硒处理对土壤理化性质及杭白菊品质的影响 ..... 程丹 张红 郭子雨等 (1449)

基于文献计量的近 30 年国内外土壤微生物研究分析 ..... 陈香 李卫民 刘勤 (1458)

不同发育阶段日本落叶松人工林枯落物层微生物群落特征 ..... 牛小云 孙晓梅 陈东升等 (1471)

AM 真菌共生系统中硝态氮吸收转运途径及对寄主生长的作用 ..... 李梦瑶 蒋湘艳 金海如 (1483)

铜、锌污染梯度对自然林地和农田土壤线虫群落的影响 ..... 李钰飞 李吉进 许俊香等 (1492)

有机无机肥配施对菠萝蜜种植土壤线虫群落的影响 ..... 苏兰茜 白亭玉 鱼欢等 (1504)

长沙地区樟树林土壤水稳定同位素的变化及影响因素 ..... 戴军杰 章新平 罗紫东等 (1514)

东北寒温带永久冻土区森林沼泽湿地生态系统碳储量 ..... 彭文宏 牟长城 常怡慧等 (1526)

中亚热带森林土壤有机碳的海拔梯度变化 ..... 吴小刚 王文平 李斌等 (1539)

### 研究简报

杞麓湖盆地土壤有机质多时相空间分布与演变 ..... 秦发倡 郭春平 陈红等 (1548)

农用地膜残留对土壤氮素运移及烤烟根系生长的影响 ..... 高维常 蔡凯 曾隰涛等 (1556)

菜籽油枯有机无机复混肥对烤烟产质量及养分利用率的影响 ..... 余小芬 杨树明 邹炳礼等 (1564)

封面图片：场地土壤-地下水污染物多介质界面过程示意图（由滕应提供）



土壤学报微信公众号

CONTENTS

**Insights and Perspectives**

- A Review of Researches on Viruses in Soil – Advancement and Challenges.....  
.....WANG Guanghua, LIU Junjie, ZHU Dong, et al. (1319)

**Reviews and Comments**

- Research Progress and Perspective of the Multi-medium Interface Process and Regulation Principle of Pollutants  
in Site Soil-Groundwater ..... TENG Ying, LUO Yongming, SHEN Renfang, et al. (1333)
- Progresses in Research on Sources and Characteristics of Chromium Pollution in Soils and Groundwater of  
Tannery Sites..... XU Teng, NAN Feng, JIANG Xiaofeng, et al. (1341)
- A Review of Researches on Anaerobic Oxidation of Methane (AOM) in Wetlands.....  
.....LI Jinye, CHEN Qingfeng, YIN Zhichao, et al. (1353)
- A Review of Research on Influencing Factors and Sustainability of Ratoon Rice Cultivation in China .....  
.....SONG Kaifu, ZHANG Guangbin, XU Hua, et al. (1365)

**Research Articles**

- Logic Expression and Retrieval of Soil Taxonomy Based on Pedon .....  
.....WANG Lahong, CHEN Jiaying, WANG Shanqin, et al. (1378)
- Particle-size Composition of Erosion Sediment on Granite-derived Red Soil Slope Relative to Erosion Degree.....  
.....ZHANG Deqian, NI Shimin, WANG Junguang, et al. (1387)
- Effects of Soil Erosion on Soil Moisture and Infiltration Characteristics of Slope Farmland.....  
.....LOU Yibao, SHI Dongmei, JIANG Na, et al. (1399)
- Effect of Soil Surface Hydrological Conditions on Characteristic of Soil Aggregate Loss on Cinnamon Soil Slope  
within Contour Ridge System ..... AN Juan, CHEN Xinjun, SONG Hongli (1411)
- Synchrotron-based X-ray Tomographic Microscopy Reveals Morphology and Spatial Structure of Intra-aggregate  
Pores in Red Soils ..... WU Chengfeng, YU Xiuling, LU Shenggao (1422)
- Soil Aeration Porosity in Typical Tobacco-planting Soils and Its Main Controlling Factors in Typical Tobacco-  
planting Soil in Yunnan Province, China ..... TIAN Yutian, LI Xiangwei, XIE Xinqiao, et al. (1430)
- Effects of Coated Potassium Chloride Containing Mepiquat Chloride on Cotton Yield and Soil Potassium.....  
.....YANG Xiuyi, YU Qiqing, GENG Jibiao, et al. (1439)
- Effect of Selenium Application on Soil Physical and Chemical Properties and Quality of *Chrysanthemum*  
*morifolium* cv Hangbai ..... CHENG Dan, ZHANG Hong, GUO Ziyu, et al. (1449)

- Bibliometric-based Analysis of Researches on Soil Microbes at Home and Abroad in the Past 30 Years .....  
 ..... CHEN Xiang, LI Weimin, LIU Qin (1458)
- Characteristics of Microbial Community in Litter Relative to Stand of *Larix kaempferi* Different in Development  
 Stage ..... NIU Xiaoyun, SUN Xiaomei, CHEN Dongsheng, et al. (1471)
- Modes of Uptake and Translocation of  $\text{NO}_3^-$  Affecting Growth of Host Plants in Arbuscular Mycorrhizal Symbiosis  
 ..... LI Mengyao, JIANG Xiangyan, JIN Hairu (1483)
- Effects of Copper and Zinc Contamination on Soil Nematode Communities from Natural Woodland and Farmland  
 ..... LI Yufei, LI Jijin, XU Junxiang, et al. (1492)
- Effects of Inorganic Fertilizer Combined with Organic Manure on Soil Nematode Community under Jackfruit Trees  
 ..... SU Lanxi, BAI Tingyu, YU Huan, et al. (1504)
- Variation of Stable Isotopes in Soil Water under *Cinnamomum camphora* Woods in Changsha and Its Influencing  
 Factors ..... DAI Junjie, ZHANG Xinping, LUO Zidong, et al. (1514)
- Carbon Storage of Forested Wetland Ecosystems in the Cold Temperate Permafrost Region, Northeast China  
 ..... PENG Wenhong, MU Changcheng, CHANG Yihui, et al. (1526)
- Altitudinal Gradient of Soil Organic Carbon in Forest Soils in the Mid-Subtropical Zone of China .....  
 ..... WU Xiaogang, WANG Wenping, LI Bin, et al. (1539)

### Research Notes

- The Multi-Phase Tempo-Spatial Distribution and Variation of Soil Organic Matter in the Qiluhu Basin .....  
 ..... QIN Falü, GUO Chunping, CHEN Hong, et al. (1548)
- Impacts of Mulching Plastic Film Residue on Migration of Soil Nitrogen and Growth of Flue-cured Tobacco  
 Roots ..... GAO Weichang, CAI Kai, ZENG Yuntao, et al. (1556)
- Effects of Combined Application of Rapeseed-cake as Organic Manure and Chemical Fertilizer on Yield, Quality  
 and Nutrient Use Efficiency of Flue-cured Tobacco ..... YU Xiaofen, YANG Shuming, ZOU Bingli, et al. (1564)

**Cover Picture:** Diagram of the Multi-medium Interface Process of Pollutants in Site Soil-Groundwater  
 (by TENG Ying)