

ISSN 0564-3929

# Acta Pedologica Sinica 土壤学报

Turang Xuebao

土壤学报

第五十四卷

第三期

二〇一七年五月

科学出版社



中国土壤学会  
科学出版社

主办  
出版

2017

第54卷 第3期

Vol.54 No.3



# 土壤学报

(Turang Xuebao)



第 54 卷 第 3 期 2017 年 5 月

## 目次

### 研究论文

- 喀斯特坡地裸露心土层产流产沙模拟研究..... 严友进 戴全厚 伏文兵等 (545)
- 两种工程堆积体边坡模拟径流侵蚀对比研究..... 丁文斌 李叶鑫 史东梅等 (558)
- 花岗岩崩岗区不同土层的侵蚀水动力学特征..... 王秋霞 丁树文 邓羽松等 (570)
- 花岗岩风化土物理特征曲线间的相关性研究..... 夏金文 魏玉杰 蔡崇法 (581)
- 河南省地形、土壤和地表水体多样性格局特征..... 任圆圆 张学雷 (590)
- 基于组合模型的庐山森林土壤有效铁光谱间接反演研究..... 谢文 赵小敏 郭熙等 (601)
- 引黄灌淤耕作对剖面土壤有机质组分构成的影响..... 董林林 张海东 于东升等 (613)
- 制图尺度对CO<sub>2</sub>浓度升高情景下旱地土壤有机碳模拟的影响..... 黄琳斌 张黎明 龙军等 (624)
- 区域土壤CEC与相关控制因子的空间非平稳关系评估..... 李锦芬 瞿明凯 黄标等 (638)
- 长期施有机肥和化肥对潮土胡敏酸结构特征的影响..... 徐基胜 赵炳梓 张佳宝 (647)
- 种植翻压紫云英配施化肥对稻田土壤活性有机碳氮的影响..... 刘春增 常单娜 李本银等 (657)
- 陇中黄土高原不同耕作措施下土壤磷动态研究..... 许艳 张仁陟 (670)
- 典型自然带土壤氮磷化学计量空间分异特征及其驱动因素研究..... 卢同平 张文翔 牛洁等 (682)
- 水稻不同生育期对硒吸收累积及铁膜的吸附特性..... 张城铭 周鑫斌 高阿祥 (693)
- 西瓜根际促生菌筛选及生物育苗基质研制..... 张杨 王甜甜 孙玉涵等 (703)
- 不同有机物料对微域内土壤原生动物和线虫的影响..... 蔡冰杰 范文卿 王慧等 (713)
- 长期种植毛竹林土壤丛枝菌根真菌群落演变趋势..... 牛利敏 秦华 徐秋芳等 (722)
- 基于高通量测序的两种植被恢复类型根际土壤细菌多样性研究..... 戴雅婷 闫志坚 解继红等 (735)
- 林下药材植物淋出物对太白杨枯落物分解及土壤酶活性的影响..... 卢玉鹏 许纪元 张晓曦等 (749)

### 研究简报

- 干旱区典型绿洲土壤有机质含量分布特征及其影响因素..... 唐梦迎 丁建丽 夏楠等 (759)
- 改性聚丙烯酸酯包膜控释肥料的控释性能研究..... 赵聪 申亚珍 杜昌文等 (767)
- 阶段培养法测定稻田氮素矿化量的效果评价..... 宋挚 于彩莲 刘智蕾等 (775)
- 不同喷淋强度对核素Sr-90在土壤中迁移的影响..... 朱君 邓安嫦 石云峰等 (785)
- 江汉油田区典型农田土壤烃类降解微生物功能基因*bssA*的遗传多样性研究.....  
..... 左小虎 王明霞 姚炎红等 (794)

封面图片：贵州喀斯特岩溶峡谷区石漠化景观（由严友进、戴全厚提供）

CONTENTS

**Research Articles**

- Simulation Study on Bare Subsoil Runoff and Sediment Yield on Karst Slope ..... YAN Youjin, DAI Quanhou, FU Wenbing, et al. ( 556 )
- Contrast Study on Simulated Runoff Erosion of Two Engineering Accumulation Slopes ..... DING Wenbin, LI Yexin, SHI Dongmei, et al. ( 568 )
- Hydrodynamic Characteristics of Erosion in Different Soil Layers in Granite Collapse Region ..... WANG Qiuxia, DING Shuwen, DENG Yusong, et al. ( 579 )
- Correlations between Characteristic Curves of Physical Properties of Weathered Granite Soils ..... XIA Jinwen, WEI Yujie, CAI Chongfa ( 588 )
- Characteristics of the Diversity of Terrain, Soil and Surface Water Body of Henan Province in Pattern ..... REN Yuanyuan, ZHANG Xuelei ( 599 )
- Composite-Model-Based Indirect Reversion of Soil Available Iron Spectrum of Forest Soil in Lushan ..... XIE Wen, ZHAO Xiaomin, GUO Xi, et al. ( 611 )
- Effect of Cultivation and Irrigation with Sediment Laden Yellow River Water on SOM Composition in Profile Depth ..... DONG Linlin, ZHANG Haidong, YU Dongsheng, et al. ( 622 )
- Effects of Mapping Scale on Simulation of Soil Organic Carbon in Upland in the Scenario of Elevated CO<sub>2</sub> ..... HUANG Linbin, ZHANG Liming, LONG Jun, et al. ( 636 )
- Spatially Non-stationary Relationships between Cation Exchange Capacity and Related Control Factors ..... LI Jinfen, QU Mingkai, HUANG Biao, et al. ( 645 )
- Effects of Long-term Application of Organic Manure and Chemical Fertilizer on Structure of Humic Acid in Fluvo-aquic Soil ..... XU Jisheng, ZHAO Bingzi, ZHANG Jiabao ( 655 )
- Effects of Planting and Incorporation of Chinese Milk Vetch Coupled with Application of Chemical Fertilizer on Active Organic Carbon and Nitrogen in Paddy Soil ..... LIU Chunzeng, CHANG Danna, LI Benyin, et al. ( 668 )
- Dynamics of Soil Phosphorus as Affected by Tillage on the Loess Plateau in Central Gansu, China ..... XU Yan, ZHANG Renzhi ( 680 )
- Study on Spatial Variability and Driving Factors of Stoichiometry of Nitrogen and Phosphorus in Soils of Typical Natural Zones of China ..... LU Tongping, ZHANG Wenxiang, NIU Jie, et al. ( 691 )
- Uptake and Accumulation of Selenium and Iron Coating on Rice Root at Different Growth Stages ..... ZHANG Chengming, ZHOU Xinbin, GAO Xiang ( 701 )
- Screening of Plant Growth-Promoting Rhizobacteria from Watermelon and Development of Bio-nursery Substrates ..... ZHANG Yang, WANG Tiantian, SUN Yuhan, et al. ( 711 )
- Effects of Organic Materials on Soil Protozoa and Nematodes in Microzones ..... CAI Bingjie, FAN Wenqing, WANG Hui, et al. ( 720 )
- Effects of Long-term Plantation of *Phyllostachys edulis* on Evolution of Arbuscular Mycorrhizal Fungus Community in Soil ..... NIU Limin, QIN Hua, XU Qiufang, et al. ( 733 )
- Soil Bacteria Diversity in Rhizosphere under Two Types of Vegetation Restoration Based on High Throughput Sequencing ..... DAI Yating, YAN Zhijian, XIE Jihong, et al. ( 747 )
- Effects of Leachates from Understorey Medicinal Plants on Decomposition of *Populus Purdomii* Litters and Soil Enzyme Activity ..... LU Yupeng, XU Jiyuan, ZHANG Xiaoxi, et al. ( 757 )

**Research Notes**

- Distribution of Soil Organic Matter Content and Its Affecting Factors in Oases Typical of Arid Region ..... TANG Mengying, DING Jianli, XIA Nan, et al. ( 766 )
- Study on the Controlled Release Performance of Modified Polyacrylate Coated Controlled Release Fertilizers ..... ZHAO Cong, SHEN Yazhen, DU Changwen, et al. ( 774 )
- Effectiveness Evaluation of the Use of Phase Incubation Method to Determine N Mineralization in Paddy Soil ..... SONG Zhi, YU Cailian, LIU Zhilei, et al. ( 783 )
- Effect of Spraying Intensity on Migration of Sr-90 in Soil ..... ZHU Jun, DENG Anchang, SHI Yunfeng, et al. ( 793 )
- Genetic Diversity of Hydrocarbons Degrading Microbial Functional Gene (*bssA*) in the Farmland Soil Typical of Jiangnan Oilfield ..... ZUO Xiaohu, WANG Mingxia, YAO Yanhong, et al. ( 803 )

**Cover Picture:** Rocky Desertification Landscape in Karst Gorge in Guizhou Province, China (by YAN Youjin, DAI Quanhou)