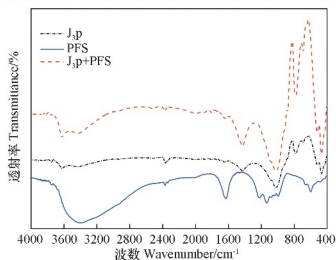
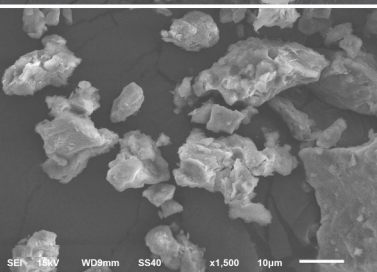
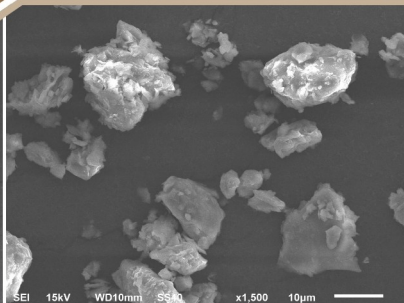
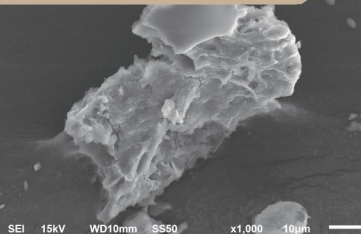


# Acta Pedologica Sinica

# 土壤学报

Turang Xuebao



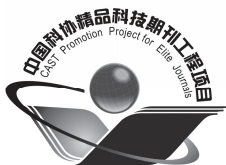
中国土壤学会  
科学出版社  
万方数据

主办  
出版

2020

第 57 卷 第 1 期

Vol.57 No.1



# 土壤学报

(Turang Xuebao)



第 57 卷 第 1 期 2020 年 1 月

## 目 次

### 新视角与前沿

土壤与人体健康·····赵方杰 谢婉滢 汪 鹏 (1)

### 综述与评论

南方红壤丘陵区林下水土流失防治研究进展·····袁再健 马东方 聂小东等 (12)

基于不同分析方法研究磷酸根在矿物表面吸附机制的进展·····严玉鹏 王小明 熊 娟等 (22)

粪肥施用土壤抗生素抗性基因来源、转移及影响因素·····苑学霞 梁京芸 范丽霞等 (36)

### 研究论文

基于环境变量的中国土壤有机碳空间分布特征·····罗 梅 郭 龙 张海涛等 (48)

“紫色砂、页岩岩性特征”颜色修订建议——基于四川紫色土母岩颜色特征·····

·····晏昭敏 袁大刚 余星兴等 (60)

赣南崩岗侵蚀区不同部位土壤抗剪强度及影响因素研究·····冯舒悦 王军光 文 慧等 (71)

流动沙地建植人工固沙梭梭林的土壤演变过程·····苏永中 刘婷娜 (84)

土壤热通量板测量误差及 Philip 修正公式的适用性·····邢 洲 乔照钰 刘 刚 (92)

高效复合处理剂的微观结构及其去除景观水体氮磷的机制·····黄雪娇 李振轮 冯 密等 (100)

锰掺杂对针铁矿的结构、表面性质及吸附硒的影响·····王 锐 牛鹏举 许海娟等 (108)

有机质去除对黄土纳米颗粒悬浮液稳定性的影响·····王春丽 许晨阳 赵世伟等 (119)

吉兰泰盐湖盆地土壤重金属铬、汞、砷分布的多方法评价·····张阿龙 高瑞忠 张 生等 (130)

蚓堆肥热干扰后对土壤质量和作物生长的影响·····周 星 陈 骋 常海娜等 (142)

秸秆与木本泥炭短期施用对潮土有机质及微生物群落组成和功能的影响·····

·····赵文慧 马 垒 徐基胜等 (153)

开垦年限对黑土氮初级转化速率和净转化速率的影响·····李 平 郎 漫 (165)

吡虫啉对伯克霍尔德氏菌生长和溶磷作用的影响·····郑丽霞 王玉书 刘 海等 (174)

长期施肥下红壤旱地解钾菌变化及其驱动因子·····柳开楼 黄 晶 韩天富等 (183)

田间烤烟叶片缺钾症状与钾积累及土壤供钾水平关系·····刘智强 CAO Yuying 赵正雄 (195)

不同耕作方式下黑土微生物群落对干湿交替的响应·····刘 奎 葛 壮 徐英德等 (206)

银北盐碱区植物根际土壤酶活性及微生物群落特征·····田平雅 沈 聪 赵 辉等 (217)

不同林龄马尾松人工林土壤微生物群落结构和功能多样性演变·····赵 辉 周运超 任启飞 (227)

林分密度对杉木人工林下物种多样性和土壤养分的影响·····张勇强 李智超 厚凌宇等 (239)

### 研究简报

电荷辅助氢键对腐殖酸分子量和溶解性的影响·····石 林 曹艳贝 张 凰等 (251)

### 信息

《土壤学报》2018 年度优秀论文评选揭晓····· (258)

封面图片: J<sub>3p</sub>、PFS 及 J<sub>3p</sub> 与 PFS 复合后的电镜扫描和红外光谱图 (由黄雪娇、谢德体提供)



土壤学报微信公众号

CONTENTS

**Insights and Perspectives**

Soil and Human Health ..... ZHAO Fangjie, XIE Wanying, WANG Peng (1)

**Reviews and Comments**

Progress in Research on Prevention and Control of Soil Erosion under Forest in Red Soil Hilly Region of South China ..... YUAN Zaijian, MA Dongfang, NIE Xiaodong, et al. (12)

Progresses in Studies on Sorption Mechanisms of Phosphate on Minerals Using Multiple Analytic Approaches ..... YAN Yupeng, WANG Xiaoming, XIONG Juan, et al. (22)

Effects of Manure Application on Source and Transport of Antibiotic Resistant Genes in Soil and Their Affecting Factors ..... YUAN Xuexia, LIANG Jingyun, FAN Lixia, et al. (36)

**Research Articles**

Characterization of Spatial Distribution of Soil Organic Carbon in China Based on Environmental Variables ..... LUO Mei, GUO Long, ZHANG Haitao, et al. (48)

Proposal on Revising Color Definition for “L.C. of Purplish Sandstones and Shales” ——Based on Color Characteristics of Parent Rock of Purplish Soil in Sichuan ..... YAN Zhaomin, YUAN Dagang, YU Xingxing, et al. (60)

Soil Shear Strength of Collapsing Erosion Area in South Jiangxi of China Relative to Position of the Soil and Its Influencing Factors ..... FENG Shuyue, WANG Junguang, WEN Hui, et al. (71)

Soil Evolution Processes Following Establishment of Artificial Sandy-fixing *Haloxylon Ammodendron* Forest ..... SU Yongzhong, LIU Tingna (84)

Measuring Error of Soil Heat Flux Plate and Applicability of Philip’s Equation for Modification ..... XING Zhou, QIAO Zhaoyu, LIU Gang (92)

Microstructures of the High Efficiency Compounding Agent and Mechanism of Its Removing Nitrogen and Phosphorus from Landscape Water ..... HUANG Xuejiao, LI Zhenlun, FENG Mi, et al. (100)

Effects of Mn-Doping on Structure, Surface Properties and Selenium Adsorption of Goethite ..... WANG Rui, NIU Pengju, XU Haijuan, et al. (108)

Effect of Organic Matter Removal on Stability of Suspension of Loess Nanoparticles ..... WANG Chunli, XU Chenyang, ZHAO Shiwei, et al. (119)

Evaluation Using Numerous Methods of Distribution of Heavy Metals Cr, Hg and As in Jilantai Salt Lake Basin ..... ZHANG Along, GAO Ruizhong, ZHANG Sheng, et al. (130)

Effects of Thermal-Disturbed Vermicompost on Soil Quality and Crop Growth ..... ZHOU Xing, CHEN Cheng, CHANG Haina, et al. (142)

Effect of Application of Straw and Wood Peat for a Short Period on Soil Organic Matter and Microbial Community in Composition and Function in Fluvo-aquic Soil ..... ZHAO Wenhui, MA Lei, XU Jisheng, et al. (153)

Effect of Cultivation on Gross and Net N Transformation Rates in Black Soil Relative to Duration ..... LI Ping, LANG Man (165)

Effects of Imidacloprid on the Growth and P-Solubilization of *Burkholderia Yabunchi* ..... ZHENG Lixia, WANG Yushu, LIU Hai, et al. (174)

Variation of Potassium-Solubilizing Bacteria in Red Soil under Long-term Fertilization and Its Driving Factors ..... LIU Kailou, HUANG Jing, HAN Tianfu, et al. (184)

Relationships of Potassium Deficiency Symptoms and Potassium Accumulation in Flue-cured Tobacco Leaves with Soil Potassium Supply Capacity ..... LIU Zhiqiang, CAO Yuying, ZHAO Zhengxiong (196)

Responses of Soil Microbial Community to Drying-Wetting Alternation Relative to Tillage Mode ..... LIU Kui, GE Zhuang, XU Yingde, et al. (206)

Enzyme Activities and Microbial Communities in Rhizospheres of Plants in Salinized Soil in North Yinchuan, China ..... TIAN Pingya, SHEN Cong, ZHAO Hui, et al. (217)

Evolution of Soil Microbial Community Structure and Functional Diversity in *Pinus Massoniana* Plantations with Age of Stand ..... ZHAO Hui, ZHOU Yunchao, REN Qifei (227)

Effects of Stand Density on Understory Species Diversity and Soil Nutrients in Chinese Fir Plantation ..... ZHANG Yongqiang, LI Zhichao, HOU Lingyu, et al. (239)

**Research Notes**

Influence of Charge-Assistant Hydrogen Bonds on Molecular Weight and Solubility of Humic Acid ..... SHI Lin, CAO Yanbei, ZHANG Huang, et al. (251)

**Cover Picture:** SEM Micrographs and FTIR Spectra of J<sub>3p</sub> (Purple Parent Rock), PFS (Polymeric Ferric Sulfate) and J<sub>3p</sub>+PFS (by HUANG Xuejiao, XIE Deti)