

## 山东师范大学地理与环境学院

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### 个人简介

刘琳，山东烟台人，民盟盟员，2018年6月毕业于中国科学院大学，获农学博士学位。主讲本科生《地理文献阅读与写作》、《土壤地理学》、《自然资源学概论》和《地理环境与饮食文化》等课程，硕士/博士研究生《论文写作指导》（中英文）、《水土保持学》等课程。

主要研究方向为土壤退化与改良，水土保持与土壤碳循环。近年来，主持国家自然科学基金、博士后面项目，以及黄土高原土壤侵蚀与旱地农业国家重点实验室开放基金和山东省水土保持与环境保育重点实验室开放基金4项，重点参与中国科学院“百人计划”、省优秀青年人才基金、山东省国家自然科学基金面上基金3项。在《Soil and Tillage Research》、《Journal of Hydrology》、《Catena》、《Earth Surface Processes And Landforms》、《Soil Science Society of America Journal》等经典SCI期刊发表SCI论文25篇，其中，IF>5论文15篇，中科院分区1区15篇、2区6篇，被引用621次，其中他引549次，单篇最高引113次；担任《Environmental Science and Pollution Research》、《PLOS ONE》等期刊审稿人。

### 主持和参与科研项目

1. 国家自然科学基金青年基金项目（41907055）：棕壤坡面颗粒有机碳流失对团聚体破碎的响应，在研，主持
2. 中国博士后科学基金面上资助（2019M652456）：棕壤坡面团聚体颗粒有机碳流失机制，在研，主持
3. 黄土高原土壤侵蚀与旱地农业国家重点实验室开放基金（A314021402-1905）：侵蚀泥沙团聚体有机碳组成对坡面水蚀过程的响应，在研，主持

4. 山东省水土保持与环境保育重点实验室开放基金 (STK201910) : 侵蚀泥沙团聚体有机碳组成对坡面水蚀过程的响应, 在研, 主持
5. 国家自然科学基金面上项目 (42077051) : 人类活动对黄河三角洲滨海湿地AOM微生物基因流迁移转化过程的生物学影响机制, 在研, 参与
6. 省优秀青年人才基金 (ZR2020YQ31) : 基于贝叶斯理论的区域土壤重金属空间预测和源解析模型构建及不确定性分析, 在研, 参与

### 代表性学术论文

1. **Liu, L.**, Li, Z. W., Li, Z. J., Liu, E. F., Nie, X. D., Liu, C., et al. (2020). Effect of aggregate breakdown on the unevenly enriched organic carbon process in sediments under a rain-induced overland flow. *Soil and Tillage Research*, 204, 104752. (SCI, IF=5.374)
2. **Liu, L.**, Li, Z., Xiao, H., Wang, B., Nie, X., Liu, C., et al. (2019). The transport of aggregates associated with soil organic carbon under the rain-induced overland flow on the Chinese Loess Plateau. *Earth Surface Processes and Landforms*, 44(10), 1895-1909. (SCI, IF=4.133)
3. **Liu, L.**, Li, Z. W., Nie, X. D., He, J. J., Huang, B., Chang, X. F., et al. (2017). Hydraulic-based empirical model for sediment and soil organic carbon loss on steep slopes for extreme rainstorms on the Chinese loess Plateau. *Journal of Hydrology*, 554, 600-612. (SCI, IF=5.722)
4. **Liu, L.**, Li, Z. W., Chang, X. F., Nie, X. D., Liu, C., Xiao, H. B., Wang, D. Y. (2018). Relationships of the hydraulic flow characteristics with the transport of soil organic carbon and sediment loss in the Loess Plateau. *Soil and Tillage Research*, 175, 291-301. (SCI, IF=5.374)
5. **Liu, L.**, Liu, Q. J., Yu, X. X. (2016). The influences of row grade, ridge height and field slope on the seepage hydraulics of row sideslopes in contour ridge systems. *Catena*, 147, 686-694. (SCI, IF=5.198)
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8. Zhang, H., **Liu, L.**, Jiao, W., Li, K., Wang, L., Liu, Q. (2021). Watershed runoff modeling

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9. Xiao, H., Li, Z., Deng, C., **Liu, L.**, Chen, J., Huang, B., et al. (2019). Autotrophic Bacterial Community and Microbial CO<sub>2</sub> Fixation Respond to Vegetation Restoration of Eroded Agricultural Land. *Ecosystems*, 22(8), 1754-1766.
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  11. Wang, X., Liu, E., Lin, Q., **Liu, L.**, Yuan, H., Li, Z. (2020). Occurrence, sources and health risks of toxic metal (loid) s in road dust from a mega city (Nanjing) in China. *Environmental Pollution*, 263, 114518.
  12. Nie, X., Li, Z., Huang, J., **Liu, L.**, Xiao, H., Liu, C., Zeng, G. (2018). Thermal stability of organic carbon in soil aggregates as affected by soil erosion and deposition. *Soil and Tillage Research*, 175, 82-90.
  13. Liu, C., Li, Z., Berhe, A., Xiao, H., **Liu, L.**, Wang, D., et al. (2019). Characterizing dissolved organic matter in eroded sediments from a loess hilly catchment using fluorescence EEM-PARAFAC and UV–Visible absorption: Insights from source identification and carbon cycling. *Geoderma*, 334, 37-48.
  14. Liu, C., Li, Z., Dong, Y., Nie, X., **Liu, L.**, Xiao, H., Zeng, G. (2017). Do land use change and check-dam construction affect a real estimate of soil carbon and nitrogen stocks on the Loess Plateau of China? *Ecological Engineering*, 101, 220-226.
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  16. Liu, C., Li, Z., Chang, X., Nie, X., **Liu, L.**, Xiao, H., et al. (2018). Apportioning source of erosion-induced organic matter in the hilly-gully region of loess plateau in China: Insight from lipid biomarker and isotopic signature analysis. *Science of the Total Environment*, 621, 1310-1319.
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  18. Li, Z., Nie, X., He, J., Chang, X., Liu, C., **Liu, L.**, Sun, L. (2017). Zonal characteristics of

sediment-bound organic carbon loss during water erosion: A case study of four typical loess soils in Shaanxi Province. *Catena*, 156, 393-400.

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23. Xiao, H., Li, Z., Chang, X., Deng, L., Nie, X., Liu, C., **Liu, L.**, et al. (2018). Microbial CO<sub>2</sub> assimilation is not limited by the decrease in autotrophic bacterial abundance and diversity in eroded watershed. *Biology and Fertility of Soils*, 54(5), 595-605.
24. Xiao, H., Li, Z., Chang, X., Huang, J., Nie, X., Liu, C., **Liu, L.**, et al. (2017). Soil erosion-related dynamics of soil bacterial communities and microbial respiration. *Applied Soil Ecology*, 119, 205-213.
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