

Jianwei Li

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Google Scholar link: <https://scholar.google.com/citations?user=VJYoEEgAAAAJ&hl=en>

RESEARCH EXPERIENCE

His scientific activity concerns research topics in the field of soil ecology as well as biogeochemistry cycle, especially in the field of soil microbiology.

- Changes in soil organic matter quality in relation to soil microbial communities.
- Effects of climate change on soil organic matter decomposition and microbial communities

Recent research questions:

- The effect of organic matter diversity and complexity of forest swamp soils on soil microbial community structure.
- The effect of anthropogenic disturbances on soil microbial diversity in wetlands, a global meta-analysis.

EDUCATION

Since Sept. 1/2019 – to date

MSc - Ph.D. studies at the School of Environment, Northeast Normal University (China), Major in Environmental Science.

Since Sept. 1/2015 – to Jun. 1/2019

BSc studies at the School of Resource and Environmental Engineering, Jilin Institute of Chemical Technology (China).

RELEVANT RESEARCH SKILLS

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| • Fluorescence spectroscopy analysis (PARAFAC) | • Determination of soil respiration (CO ₂ emissions) |
| • Spectroscopic data analysis | • Bioinformatics: Qiime2, Genomics Network |
| • Soil physical chemistry experiment | • Computing: R, Python, MATLAB |
| • Microbial high-throughput sequencing data processing | |

PUBLICATIONS

1- Li, J., Zhao, L., Song, C., He, C., Bian, H., & Sheng, L. (2023). Forest swamp succession alters organic carbon composition and survival strategies of soil microbial communities. *Science of The Total Environment*, 166742.

2- Xu, R., Zhang, J., Li, J., Liu, R., Ni, M., & Zeng, G. (2023). Deciphering riverine dissolved organic matter biodegradation: Evidence from three-dimensional fluorescence. *Journal of Environmental Chemical Engineering*, 110296.

3- Li, M., Li, J., Zhao, L., Liu, S., Wang, Y., & Bian, H. (2023). Effects of exogenous Fe addition on soil respiration rate and dissolved organic carbon structure in temperate forest swamps of northeastern China. *Environmental Research*, 216, 114800.

4- Li, J., Zhao, L., Li, M., Min, Y., Zhan, F., Wang, Y., & Bian, H. (2022). Changes in soil dissolved organic matter optical properties during peatland succession. *Ecological Indicators*, 143, 109386.

5- Li, J., Li, M., Zhao, L., Sun, X., Gao, M., Sheng, L., & Bian, H. (2022). Characteristics of soil carbon emissions and bacterial community composition in peatlands at different stages of vegetation succession. *Science of the Total Environment*, 839, 156242.

6- Chen, J., Li, J., Yang, Y., Wang, Y., Zhang, Y., & Wang, P. (2022). Effects of conventional and organic agriculture on soil arbuscular mycorrhizal fungal community in low-quality farmland. *Frontiers in Microbiology*, 13, 914627.

7- Li, J., Sun, X., Li, M., Zou, J., & Bian, H. (2022). Effects of stand age and soil organic matter quality on soil bacterial and fungal community composition in *Larix gmelinii* plantations, Northeast China. *Land Degradation & Development*, 33(8), 1249-1259.

8- Zhang, X., Shen, J., Huo, X., Li, J., Zhou, Y., Kang, J., & Wang, B. (2021). Variations of disinfection byproduct precursors through conventional drinking water treatment processes and a real-time monitoring method. *Chemosphere*, 272, 129930.