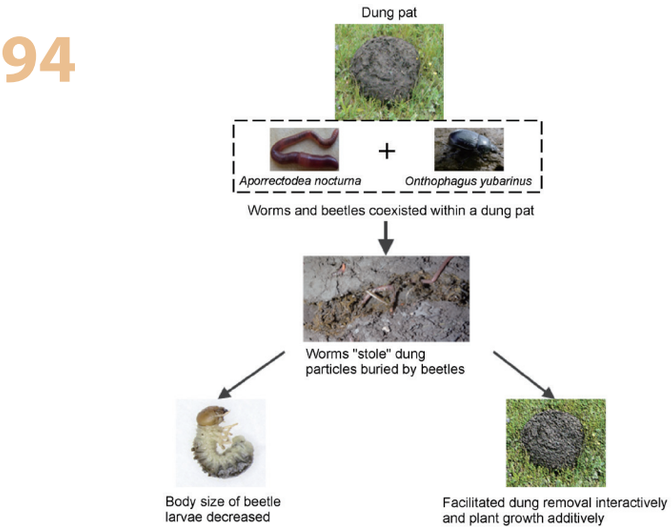
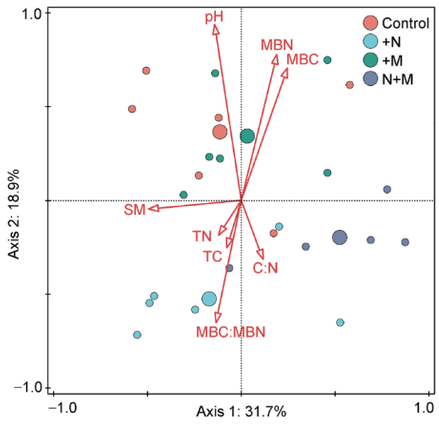
Soil Ecology Letters

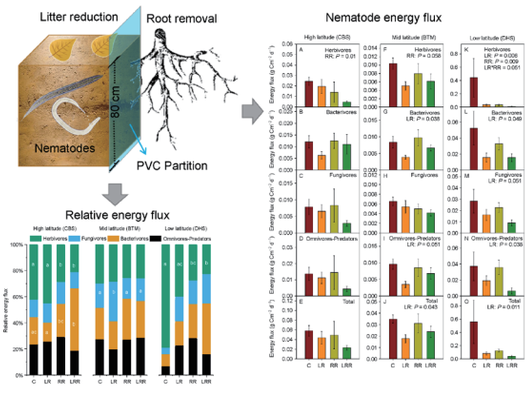
June 2021 | Volume 3 | Number 2

EDITORIAL

RESEARCH ARTICLES



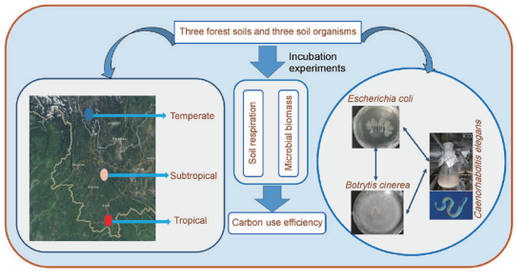


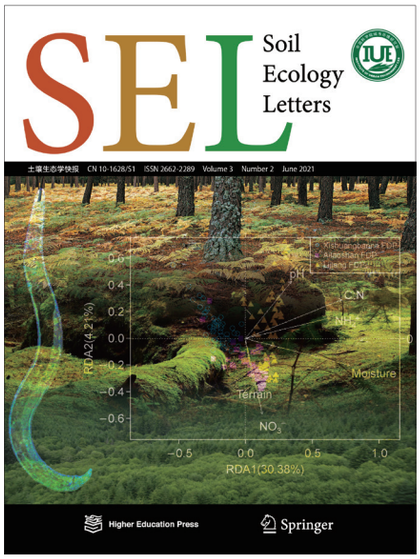


Soil Ecology Letters

June 2021 | Volume 3 | Number 2

156





115

COVER

Nematodes are widely distributed, small-bodied soil metazoans that account for more than 80% of the abundance of animals on Earth . Their global species richness is tentatively predicted to exceed 1 million. They occur in all ecosystems, with various feeding types in food webs and functional diversity. They also act as important bio-indicators, with key roles in mediating ecosystem processes. Although nematodes are so important, we still do not fully understand their community composition and the influence of the environmental factors on their distribution at different forest ecosystems. Dynamic plots of Lijiang, Ailaoshan and Xishuangbanna are three important long-term ecological observation stations. This study employed high-throughput sequencing to compare nematode communities in those plots and found that: Xishuangbanna have highest nematode richness and diversity, Lijiang and Ailaoshan have much more relative abundance of bacterial feeding nematode than Xishuangbnana. In addition, this study also found climate factors drive nematode communities distributions at the regional scale, while terrain and soil characteristics (including pH and nutrients) drive nematode communities distributions at local scales. Overall, this study improves our current understanding of key factors responsible for the biogeographical distribution of forest nematode communities at different spatial scales.

Online submission via

http://mc.manuscriptcentral.com/selett

Available online

www.springerlink.com

http://journal.hep.com.cn