

Special Issue

Nitrogen Cycling and Its Impact on Forest Soil Ecology in the Context of Global Climate Change

Message from the Guest Editors

Global climate is projected to change in the coming decades, representing a serious concern for global sustainability and human sustenance. Soil nitrogen dynamics in forest ecosystems is central to understanding ecosystem functioning and processes, such as primary production, nutrient cycling, and changes in water quality at regional and global scales. Soil N pool size and fluxes, N availability in plants, and N₂O emissions in terrestrial ecosystems are undoubtedly affected by microbial mediated N cycling such as N immobilization, mineralization, nitrification, and denitrification, while these processes are also highly responsive to climate change. Although studies have been conducted on the soil nitrogen dynamics of global and regional forest ecosystems for several decades, clarifying the nature of unique regional and geographical aspects of soil nitrogen dynamics has not yet been completed. In recent years, experimental techniques, such as isotope or molecular biological analysis, have been applied to forest ecosystems, and comparative, process-based modeling has also been employed to further our understanding of soil nitrogen dynamics.

Guest Editors

Dr. Zhe Chen

College of Ecology and Environmental Sciences, Yunnan University, Kunming 650500, China

Dr. Syed Turab Raza

College of Ecology and Environmental Sciences, Yunnan University, Kunming 650500, China

Deadline for manuscript submissions

closed (30 September 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/112637

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)