



Nitrogen Biogeochemical Cycling in Forest Ecosystems

Guest Editors:

Prof. Dr. Yunting Fang

Stable Isotope Ecology, Institute of Applied Ecology, Chinese Academy of Science, Shenyang, China

Prof. Dr. Dejun Li

Institute of Subtropical Agriculture, Chinese Academy of Sciences, Changsha 410125, China

Dr. Feifei Zhu

Stable Isotope Ecology, Institute of Applied Ecology, Chinese Academy of Science, Shenyang, China

Deadline for manuscript submissions:

closed (28 November 2023)

Message from the Guest Editors

Nitrogen deposition has been rapidly increasing in most regions of the world. Though increased N deposition may alleviate N limitation and increase forest productivity, it usually causes N saturation, soil acidification, nutrient imbalance, biodiversity losses, and so on. Our understanding is not sufficient in terms of monitoring and observation of N deposition into forests, soil N leaching, gaseous N losses, and their responses to N deposition.

The aims and scopes of the Special Issue are to present the new observations on N deposition, soil N transformations, and their interactions with cycles of carbon and other elements in forest ecosystems worldwide, in order to enhance the associated understandings.

This Special Issue will report N deposition to forests in some under-represented regions and the influences of N deposition on forest N cycling. It has long been a challenge to quantify field gaseous N losses, particularly for N₂. We will report the results quantified by ¹⁵N tracer techniques. We also explore soil N transformations, using either ¹⁵N natural abundance or ¹⁵N tracer techniques, and associated microbial composition by gene sequence analysis.





forests



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank: JCR - Q1 (*Forestry*) / CiteScore - Q1 (*Forestry*)

Contact Us

Forests
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/forests
forests@mdpi.com
@Forests_MDPI