

## Special Issue

# Stable Isotopes and Forest Ecological Research

### Message from the Guest Editor

In recent years, stable isotope ecology has grown tremendously; stable isotopes of carbon ( $^{13}\text{C}$ ), nitrogen ( $^{15}\text{N}$ ), strontium ( $^{87}\text{Sr}/^{86}\text{Sr}$ ), hydrogen ( $^2\text{D}$ ) and oxygen ( $^{18}\text{O}$ ), calcium ( $^{44}/^{42}\text{Ca}$  and  $^{44}/^{40}\text{Ca}$ ) and magnesium ( $^{26}\text{Mg}$ ) were employed to understand the changing community structure, nutrient and water-use efficiency through tree ring isotope analyses, base cation source and depletion in the forest and other vegetated ecosystems, as well as plant–soil and plant–animal interactions. Stable isotope ecology has benefitted ecosystem analysts' understanding of ecosystems' structure and function, and offered new perspectives of probable mechanisms of functioning. In this Special Issue, our aim is to reinforce our current understanding by highlighting recent research studies employing stable isotopes in forest ecology, forest litter decomposition, forest biogeochemistry, forest soil, dendrochronology, forest ecohydrology and forest ecophysiology.

### Guest Editor

Dr. Mukesh Gautam

Biology Department, City University of New York–Medgar Evers College,  
1650 Bedford Ave, New York, NY 11225, USA

### Deadline for manuscript submissions

closed (24 July 2023)



## Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/142175](https://mdpi.com/si/142175)

*Forests*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[forests@mdpi.com](mailto:forests@mdpi.com)

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





# Forests

---

an Open Access Journal  
by MDPI

---

**Impact Factor 2.5**  
**CiteScore 4.6**



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



## About the Journal

### Message from the Editor-in-Chief

*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.

---

### Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

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

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Forestry) / CiteScore - Q1 (Forestry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).