



## 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

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### 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 N<sub>2</sub>. We will report the results quantified by <sup>15</sup>N tracer techniques. We also explore soil N transformations, using either <sup>15</sup>N natural abundance or <sup>15</sup>N tracer techniques, and associated microbial composition by gene sequence analysis.





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

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

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