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Nitrogen Biogeochemical Cycling in Forest Ecosystems

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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_2. We will report the results quantified by ^{15}N tracer techniques. We also explore soil N transformations, using either ^{15}N natural abundance or ^{15}N tracer techniques, and associated microbial composition by gene sequence analysis.

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Special Issue

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Message from the Editor-in-Chief

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