Special Issue

Nitrogen Cycling in Permafrost Soils, 2nd Edition

Message from the Guest Editor

This Special Issue aims to advance our current understanding of nitrogen cycling and carbon–nitrogen interactions in permafrost soils. Climate change is causing the most profound changes in northern latitudes, where temperature increases have been predicted to be the largest. Warming and permafrost thawing in the Arctic, Antarctic, and alpine regions are potential tipping points for climate breakdown because they increase the risk of releasing vast carbon and nitrogen reserves stored in permafrost soils in the form of greenhouse gases. While carbon dynamics in permafrost regions have been widely studied, less attention has been paid to the fact that the Arctic also holds significant amounts of nitrogen in its soils. Moreover, the fate of this N is largely unknown. Since nitrogen regulates key components of the carbon cycle and mineral N forms are substrates for the powerful greenhouse gas nitrous oxide, studying the N cycle and pools in the Arctic ecosystem should be a key research priority.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Nitrogen, the element that is intimately associated with essentially all processes on Earth, is the broad focus of a new online, open access journal. The intention of this publication is to offer a venue for research papers, reviews, short notes, and communications that have as a nexus this critical element.

Editor-in-Chief

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