

## Special Issue

# Tracing of Nitrogen Using Stable Isotopes: From Precipitation to River and Groundwater Systems

### Message from the Guest Editors

This Special Issue encourages the submission of works aiming at studying the atmospheric and terrestrial aquatic compartments of the N cycle through the use of nitrogen isotope tracers. Research on the following topics is promoted: (i) source contributions to atmospheric nitrate; (ii) N atmospheric chemistry processes and wet deposition; (iii) sources of nitrogen pollution in rivers and groundwaters in relation to land-use practices; (iv) biogeochemical processes in ecosystems and their resilience to nitrogen pollution; (v) statistical modeling techniques to quantify N contribution sources in different compartments of the N cycle; (vi) N cycling in rivers on the spatial and temporal scale; and (vii) evaluation of the N-cascading impact of nitrogen deposition and pollution on water resources and ecosystems. Examination of these N aspects is critically important to enhance the implementation of beneficial land management and mitigation strategies toward a sustainable management and protection of water resources.

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### Guest Editors

Dr. Ioannis Matiatos

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Brown University, Providence, RI, USA

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### Deadline for manuscript submissions

closed (31 October 2022)



## Water

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## About the Journal

### Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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