

Special Issue

Water-Soil Interactions: Biogeochemical Cycles of Nitrate and Soil Monitoring

Message from the Guest Editors

Nitrogen is the most abundant element on the planet, covering 78% of the atmosphere, with great importance for life as it is an essential component of DNA and proteins or enzymes and a key nutrient of plants participating in the fundamental reaction of plant life i.e. in photosynthesis. Nevertheless, atmospheric nitrogen is not available to most organisms and in order to be used by them, it must be converted to reactive compounds (e.g. the oxidizing forms NO_3^- - NO_2^- and the reducing forms of NH_3 and NH_4^+). N of the atmosphere can be bound by natural processes, through lightning, and by biological fixation to terrestrial and aquatic systems. The processes controlling the conversions of N in the soil are of particular importance as well as monitoring them through the techniques and methods that have been developed up to date. These two main purposes, biogeochemical processes governing N transformations in soils and their monitoring in the soil are the subjects of this special issue.

Guest Editors

Dr. Christos Tsadilas

Institute of Industrial and Forage Crops, Hellenic Agricultural Organization General Directorship of Agricultural Research, 1 Theofrastou Str., 41335 Larissa, Greece

Dr. Eleftherios Evangelou

Institute of Industrial and Forage Crops Hellenic Agricultural Organization General Directorship of Agricultural Research 1, Theofrastou Str., 41335 Larissa, Greece

Deadline for manuscript submissions

closed (31 May 2023)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/119904

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



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



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.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)