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 NO3-NO2- and the reducing forms of NH3 and NH4 +). 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.

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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

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