Special Issue

Advances in the Application of Environmental Tracer Technology in Agricultural Water and Soil Management

Message from the Guest Editors

Sustainable management of agricultural water and soil resources is critical for ensuring food security under increasing pressures of climate change, land degradation, and population growth. Environmental tracer technology has emerged as a powerful tool to investigate water and nutrient dynamics, soil–water interactions, and pollutant transport in agroecosystems. By tracing isotopes, chemicals, and biological markers, researchers can gain valuable insights into groundwater recharge, irrigation efficiency, nutrient cycling, soil salinization, and contaminant pathways. This Special Issue, titled “Advances in the Application of Environmental Tracer Technology in Agricultural Water and Soil Management”, aims to bring together cutting-edge research and reviews highlighting the methodological innovations and practical applications of tracer techniques. The Issue seeks to explore topics ranging from stable isotope analysis and compound-specific tracers to the integration of tracer data with modeling approaches. Contributions that address challenges, novel approaches, and case studies in sustainable agriculture, soil health, and water resource management are especially encouraged.

Guest Editors

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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

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