

Special Issue

Modeling Soil-Water-Salt Interactions for Agricultural Sustainability

Message from the Guest Editors

This Special Issue focuses on the simulation of soil-water-salt interactions in the context of agricultural sustainability. As climate change, land degradation, and water scarcity intensify, managing the soil-water-salt balance has become crucial for improving crop productivity and protecting the environment. These interactions influence not only water and nutrient availability for crops but also irrigation practices, soil quality, and agroecosystem stability. We invite research that advances simulation techniques for soil-water-salt dynamics under varying soil types, climates, and agricultural practices. Case studies involving arid zones, saline-alkali lands, or precision agriculture are especially welcome. Topics of interest include model development, calibration, and validation; applications in irrigation scheduling, crop growth modeling, soil salinity control, and land restoration. We welcome your contributions to this timely and impactful Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2026)



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Editor-in-Chief

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