

Special Issue

Hydrogeophysical Monitoring of Water and Solutes in Agricultural Soils

Message from the Guest Editor

Hydrogeophysics has advanced significantly because of substantial investigations in stochastic subsurface hydrology, which have served as an impetus for the developments in on-site investigative methodologies. The effectiveness of these unique hydrogeophysical approaches, which focus on identifying heterogeneity and fluid behavior within shallow subsurfaces, is rooted in the refinement of efficient data inversion techniques. Notably, these methods include electrical resistivity tomography, ground-penetrating radar, nuclear magnetic resonance and specific electromagnetic approaches.

This call for papers aims to promote innovative approaches in hydrogeophysical characterization, utilizing advanced geophysical tools, data fusion methodologies and machine learning for data interpretation. It emphasizes integrating hydrological models to understand soil variations, infiltration dynamics, root-water uptake and their impact on crop productivity. We encourage diverse submissions, from experimental studies to theoretical models, real-world case studies and comprehensive reviews charting future research directions.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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