

Special Issue

Isotopic & Nuclear Techniques in Studying (Agro)environmental Processes

Message from the Guest Editors

Recently, the detection and monitoring of some environmental processes (erosion, soil moisture regime, salinization) have become instant and accurate due to significant improvements to sensors/detectors and integration with remote sensing and IoT solutions. Such combinations of advanced techniques enable the processing of large datasets and the analysis of numerous studies conducted under variable conditions (e.g., meta-analyses), while the application of artificial intelligence and machine learning algorithms enables the testing of various scenarios under different climate conditions. Therefore, multidisciplinary approaches (e.g., isotopic and nuclear techniques combined and upgraded with hydropedological, physiological, and molecular methods) to address challenges in agroenvironmental research will provide more holistic and proactive solutions for agroecosystems management. For this Special Issue, we welcome all manuscript types (original studies, reviews, communications, opinions, perspectives, discussions) that show novelty on topics including, but not limited to, the listed keywords.

Guest Editors

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Dr. Emil Fulajtar

Prof. Dr. Branko Petrinec

Deadline for manuscript submissions

closed (30 May 2025)



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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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