

Topical Collection

Soil and Water Management Challenges & Solutions for Sustainable Agriculture under Climate Change

Message from the Collection Editor

Terrestrial agroecosystems are dominant food generators and pivotal utilizers of the most valuable Earth's resources, notably quality waters and soils, which have been exposed to various anthropogenic pressures for decades, constraining agri-food production. Consequently, a majority of arable pedosphere constrains (salinity/alkalinity, acidity, nutrient deficiency, contamination), and specific management strategies for their amelioration (leaching, drainage, liming, fertilization, bioremediation) are closely linked to appropriate water management in the (sub)surface soil (root) zone. However, optimizing water relations in the arable pedosphere is becoming increasingly challenging due to global climate change and variability. Modern sustainable strategies and approaches to ameliorate suboptimal water conditions (mostly insufficient supply, but waterlogging periodically as well) should be directed toward more efficient management of natural resources given strong competition among related stakeholders in agroecosystems (farmers, urban population, energy-producers).

Collection Editor

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