

Special Issue

Land Degradation and Management Strategies: Contributing to Sustainable Agriculture

Message from the Guest Editors

Land provides essential goods (e.g., food, feed, fuel) and services (e.g., carbon sequestration, soil conservation, climate regulation) for socio-ecological systems.

However, one third of global ice-free land is degraded to varying degrees due to unsustainable land use, climate change, and extreme weather. Especially for agricultural land, 30% of cropland and 50% of grassland have experienced unprecedented degradation, such as soil erosion, salinization, pollution, productivity decline, and coverage reduction, becoming one of the major threats to food security, biodiversity conservation, economic development, social equity, and sustainable development goals. Thus, this Special Issue looks forward to receiving your original research articles and reviews focused on the following issues: (1) novel methods for assessing agricultural land-use-induced land degradation, (2) land degradation dynamics and their natural-anthropogenic driving mechanisms, (3) multidimensional impacts of land degradation and their trade-offs and synergies, and (4) sustainable agricultural management strategies for future challenges in soil and water conservation and eco-security.

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