

Special Issue

Agro-Ecosystems Resilience in View of Climate Change

Message from the Guest Editors

Agroecosystems are more and more susceptible to climate change and socioeconomic pressures. These issues challenge the livelihoods of agroecosystem-based populations, making multifunctional land systems increasingly central to a sustainable land-use policy. Soil erosion and loss of carbon and other nutrients pose a threat to ecosystem health. In addition, soil microbiomes also play key functions in agroecosystems, affecting soil fertility, crop productivity, and stress tolerance; therefore, the loss of biodiversity leads to alterations in soil functioning and, consequently, to a loss of ecosystem services. Thus, assessing the ecosystem responses to climate variability is of great importance for developing more sustainable management strategies aiming to facilitate both climate change adaptation and mitigation. This Special Issue is aimed at advancing agroecosystems knowledge to decipher and enhance their resilience to climate change. Potential topics include but are not limited to:

- Soil nutrients and fertility;
- Soil biodiversity;
- Soil organic carbon sequestration;
- Soil quality;
- Biogeochemical cycling;
- plant-soil system.

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