

Special Issue

Solving a Puzzling Node among Agricultural Productivity, Sustainability and Food Security

Message from the Guest Editors

The agricultural sector worldwide faces pressures to satisfy the increasing demands (and changing diet) of the world's population, which, at the end of 2023, is approaching 8.1 billion. Agricultural intensification has appeared as a response to increasing demand, but this, coupled with an increased utilization of pesticides and fertilizers, has led to proliferating environmental pollution and land degradation. Worldwide, agricultural productivity has surged in recent decades. However, certain concerns regarding food security persist due to the effects of climate change. The sustainability of agricultural activities requires improvements in order to ensure the mitigation of climate change. Furthermore, rural regions depend on the agricultural sector as a main factor of economic viability and determinant of sustainability. Therefore, new climate-neutral and climate-positive frameworks are required to better integrate agricultural productivity, sustainability and food security all over the world.

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