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Advanced Technology for Climate Change Mitigation and Sustainable Management of the Agroecosystem

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Message from the Guest Editors

Climate change s impacts on agriculture are a worldwide concern. To cope with the projected impacts of climate change, agriculture activities need to focus on innovative practices in the frame of sustainable strategies that allow for the efficient use of agricultural lands and natural resources to face future challenges.

Precision agriculture, for instance, is a production method that allows for the use of the right quantity of inputs, i.e., fertilizers and irrigation water, at the right time, which can result in water, energy, and fertilizer savings, therefore leading to economic and environmental benefits. In addition, designing multifunctional cropping systems, sustainability assessment through life cycle assessment, artificial intelligence, remote sensing to quantify crop, soil, and water statuses, and wastewater treatments and reuse are considered promising sustainability strategies. These strategies can help to reduce the pressure on natural resources and, at the same time, contribute to the mitigation efforts of climate change s impacts, thus allowing for the sustainable management of agroecosystems in the framework of sustainability criteria.

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Message from the Editor-in-Chief

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