

Special Issue

State-of-the-Art Research on Weed Populations and Community Dynamics

Message from the Guest Editors

In order to contribute effectively to the sustainability of agriculture, there must be a change in mindset regarding weed management since in most situations the actual focus is still limited to knowledge on the control of a given weed species affecting a given crop or only during the agronomic cycle. However, no single control method translates into a fully effective solution to a weed problem. Therefore, weed management should be approached as an integrated science adopting a combination of a simultaneous set of varied strategies. To achieve such a goal, the understanding of both weed populations and community dynamics is of uppermost importance to the management and prediction of their spatial and temporal evolution under increasingly complex scenarios, such as climate change and/or herbicide resistance evolution. In this Special Issue, we welcome novel and original studies, reviews, and opinion pieces covering all topics related to weed population and community dynamics, such as demography studies, population-/community-level dynamic models, spatially explicit models, the evolution of herbicide resistance, adaptation to weed management methods, new and emerging weeds, etc.

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