



Application of Allelopathy in Sustainable Agriculture

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Message from the Guest Editors

There is an urgent appeal from the European Commission for a green transition in food systems. It is our task to search for new tools that contribute to the environmental objectives by replacing, at least partially, the phytosanitary products of chemical synthesis currently used. An eco-friendly strategy for this global challenge could be to take advantage of Allelopathy for the control of weeds.

The main purpose of this Special Issue is to bring together a collection of studies that update the research progress on the use of Allelopathy for weed control in agricultural production, as well as to compile the advances in the physiological and ecological mechanisms of Allelopathy in agriculture. We welcome original research papers, reviews, and communications mainly focused on, but not limited to, the following subjects:

1. The phytotoxicity of plant extracts;
2. Natural compounds as bioherbicides and their interactions.
3. The use of allelopathic plants as cover crops, green manures, for intercropping, or in crop rotation.
4. Fate of allelochemicals in the agricultural soil.
5. Breeding of allelopathic crops and cultivars.





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Message from the Editor-in-Chief

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