

Special Issue

Management of Weeds and Herbicide Resistance

Message from the Guest Editors

The response of weeds to herbicides is expressed by the degree of their destruction, which depends on the mode of action of the herbicide, environmental factors, physiological mechanisms, and the biochemical reactions of plants. Each weed species has a lower and upper tolerance limit to the herbicide. Thus, the herbicide causes the extinction of susceptible individuals in the population, but also a positive selection of herbicide-resistant individuals, especially when used continuously or repeated periodically. With time, herbicide-resistant weeds become dominant in the ecological niche, also due to competition between resistant and susceptible weeds and crops. In this context, proper weed management is important to reduce the negative impact of resistant individuals on phytocenosis, including non-chemical methods of controlling resistant weeds.

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Deadline for manuscript submissions

closed (15 March 2024)



Agriculture

an Open Access Journal
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Impact Factor 3.6
CiteScore 6.3



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Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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