

Special Issue

Herbicide Physiology and Environmental Fate

Message from the Guest Editors

Herbicide is an important tool for weed management and have been increasing in use in the last century. Herbicides provide several benefits to the farm and enable efficient food and fiber production to meet the global food demand. When choosing and using a herbicide program for weed management, the producers and agronomists must take into account two aspects, first the efficacy for weed control; and second, the fate of the chosen herbicides in the environment. The balance of these two aspects will allow for sustainable weed control and the protection of areas surrounding the farm, which may include non-target organisms, reservoirs, streams and other bodies of water, or the environment per se. This Special Issue focuses on the physiology of herbicides in plants, which is affected by biological (tolerance or resistance), environmental (biotic or abiotic stresses, and climate change) and chemical factors (herbicide mixture interactions, adjuvants); and, the behavior of herbicides in the environment which modifies herbicide efficacy and longevity and thereby also affecting non-target organisms and crops with time.

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Message from the Editor-in-Chief

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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