Special Issue

Sustainable Pest Management in Agriculture

Message from the Guest Editor

Integrated pest management includes the development of diverse ways of combining complementary approaches to manage pests by promoting the use of natural molecules and micro- or macro-organisms alone or in combination to elicit direct entomotoxic effects in pests without having an impact on non-target species. In this context, pest management through behavioral changes but also entomophagous beneficials can lead to attraction and kill and/or push–pull alternatives in multitrophic interactive ways either by using semiochemical releasers, by including odor-emitting plants, or according to intercropping/mixing crops. Interactions between soil, plant, and insect increasingly have to consider associated microbiota from each with promising applications such as crop defense elicitation by rhizobacteria or endophytic fungi. This Special Issue of Agriculture will include original research articles and mini-reviews focusing on the latest developments in the sustainable control of various agricultural pests, considering the effect of a diversity of strategies and approaches and enhancing different trophic interactions for new applications in crop fields.

Guest Editor

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Deadline for manuscript submissions

closed (15 November 2023)

Agriculture

an Open Access Journal by MDPI

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CiteScore 4.9

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Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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