

## Special Issue

# Recent Advances in Plant Extracts and Essential Oils as Potential Alternative Biocontrol Products

### Message from the Guest Editors

The indiscriminate use of synthetic chemical pesticides is frequently associated with environmental and toxicological problems, resulting in an increased interest and enormous research efforts focused on new environmentally benign solutions. In this context, botanicals and plant-derived pesticides, such as essential oils, have been advocated for as sustainable alternatives in pest management strategies. However, despite their proven biological activities and the overwhelming research efforts, the large-scale commercialization and use of plant-based pesticides is still lacking. This Special Issue aims to present recent advances in research on botanical pesticides, including the identification and chemical characterization of pesticidal plants and their active molecules, evaluation of their bioactivities against pests and disease vectors, selectivity to non-target organisms, molecular and physiological mechanisms of action as well as nanotechnology-based new solutions for botanicals' application in integrated pest management.

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### Deadline for manuscript submissions

closed (25 July 2023)



## Agriculture

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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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