Special Issue

Sustainable Crop Production and Pest Control

Message from the Guest Editors

In 2022, the world population reached a significant new milestone of 8 billion people. To meet the demand associated with this number, it is estimated that it will be necessary to increase food and fiber production by around 70%. The challenges to be faced in innovation are enormous, mainly due to phytosanitary problems caused by damage from the attack of insect pests. Currently, chemical control is the most used method; however, the search for more sustainable alternatives has intensified. In this context, the use of extracts and essential oils from bioactive plants has shown potential for the management of important pests of cultivated crops, with high efficiency and rapid degradation in the environment. In addition to these, the use of alternative measures such as behavioral control, the use of resistant varieties, and biological control using beneficial microorganisms such as fungi, bacteria. nematodes and viruses, in addition to predatory insects and parasites, constitutes a promising sustainable alternative to pest control. Therefore, this Special Issue focuses on the role of alternative control measures in the management of agricultural and forestry pests.

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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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