

Special Issue

Crop Pest Management Based on Ecological Principles

Message from the Guest Editor

The integrated pest management (IPM) concept has provided the framework for crop protection. It rests on the foundation of ecological principles and emphasizes integration of practices that maximize environmental resistance (abiotic and biotic) to pest population growth and minimize risk of pest damage. Agricultural production systems are undergoing rapid change in response to challenges. These changes are altering cropping patterns and agricultural landscapes as well as water, nutrient, and weed management in ways that profoundly impact pest and beneficial arthropod populations. At the same time, advances in research, technology, and data analytics are greatly expanding the tools available to monitor and manage crop pests. This Special Issue will examine current and anticipated applications and impacts of advances in research, technology, and data analytics on integrated crop pest management with particular focus on arthropod pests in the context of advancing agricultural productivity and sustainability. Research papers, review articles focusing on recent advances, and papers presenting perspectives on existing and emerging challenges and solutions are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2022)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



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