

Special Issue

Sustainable Management of Arthropod Pests in Agriculture

Message from the Guest Editors

The impacts of climate change, resistance development, and other environmental challenges have made arthropod pests an increasingly significant threat to crops and agricultural products. Developing sustainable management strategies to combat these pests is crucial for minimizing economic losses. Effective pest management requires a thorough understanding of the mechanisms via which insects develop resistance to synthetic chemicals and plant-produced secondary metabolites. Key approaches, including Integrated Pest Management (IPM), Integrated Crop Management (ICM), and Integrated Resistance Management (IRM), offer effective solutions for pest control and protect non-target organisms, such as pollinators. This Special Issue will facilitate the exchange of knowledge on sustainable management practices and foster innovation in agricultural arthropod pest control. We welcome cutting-edge research contributions, including original studies and comprehensive reviews, in areas such as biological control, advanced pest monitoring systems, gene drive and resistance breeding technologies, artificial intelligence-based analyses, and other innovative approaches.

Guest Editors

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Editor-in-Chief

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