

Topical Collection

Biocontrol and Behavioral Approaches to Manage Invasive Insects

Message from the Collection Editor

Invasive species are a global issue that increasingly threatens ecosystem services and, thus, human health and the economy. Attempts to manage outbreaks of invasive insects by intensifying insecticide treatments led to the disruption of previous integrated pest management programs, further, resulting in serious negative impacts on the environment. The challenge is to develop sustainable, research-based approaches to manage invasive pests efficiently, providing effective long-term solutions. Knowledge of the native and exotic biocontrol agents, as well as of specific behavioral patterns of the target pest, are key factors to develop successful control strategies. This Special Issue focuses on the sustainable management of invasive insects and will present the development and/or application of biological control strategies (i.e., classical, conservative, inoculative, inundative biocontrol) and behavioral manipulation approaches and techniques (i.e., push-pull strategy, attract-and-kill, trap crops), either alone or in combination. Authors are invited to submit contributions that deal with either agricultural, structural, or medical invasive pest species.

Collection Editor

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Message from the Editor-in-Chief

Editor-in-Chief

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