Special Issue

Optimizing Insect Trap Systems: Advances in Lures, Dispensers, and Field Performance

Message from the Guest Editors

Effective trap systems are essential for global integrated pest management (IPM) programs. They contribute to pest surveillance, the early detection of invasive species, and mass trapping. While extensive research has focused on discovering and synthesizing attractive semiochemicals, trap performance depends on multiple interconnected components, including lure chemistry, dispenser design, trap architecture, and the performance of these elements under field conditions.

This Special Issue aims to combine cutting-edge research on any aspect of insect-trapping systems, from novel lure development and formulation technologies to innovations in dispenser materials, trap designs, and field validation. We welcome interdisciplinary contributions that combine chemical ecology, entomology, materials science, and applied pest management.

By advancing our understanding and integration of these components, we can develop more efficient, cost-effective, and sustainable tools for pest control. We invite the submission of original research articles, reviews, and case studies that contribute to this growing and impactful field of study.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Arthropods are a diverse and abundant group of animals that are important to a variety of research dictates. For example, hexapods act as bio-indicators of ecosystem function and pest status and serve as model systems for questions concerning physiology, embryology, genetics, and social interaction. The editorial board and staff at Insects is committed to providing contributors an open access forum to showcase objective and innovative research as well as succinct review articles. Our journal is dedicated to providing timely and thorough review of qualified submissions and we welcome you to submit a contribution.

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