Topical Collection

Insect Senses: From Perception to Cognition

Message from the Collection Editor

This Topical Collection aims to present a collection of articles representing outstanding contributions on insect perception and sensory integration. The tremendous diversity and ecological success of insects (and, more generally, arthropods) have been facilitated, among other factors, by their ability to use and integrate varied information. Such information covers all sensory modalities, including vision, chemical senses (olfaction and taste), mechanical senses (touching and hearing), and electric or magnetic perception. Moreover, perceived data are integrated with other information, allowing their manipulation through cognitive processes. This Topical Collection will attempt to cover the diversity of sensory modalities in various arthropods, especially non-model insect species. All levels of integration are welcome, from molecular mechanisms of transduction to functional sensory ecology. Integrative and comparative approaches are particularly welcome.
Prof. Brian H. Smith
Collection Editors

Collection Editor

Dr. Matthieu Dacher
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Insects

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Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed

mdpi.com/si/50523

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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.

Editor-in-Chief

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Author Benefits

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Journal Rank:

JCR - Q1 (Entomology) / CiteScore - Q1 (Insect Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).