

Topical Collection

Insect Senses: From Perception to Cognition

Message from the Collection Editors

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.

Collection Editors

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About the Journal

Message from the Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is
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days (median values for papers published in this journal in
the first half of 2025).