

Special Issue

Dietary Requirements and Nutrient Digestion in Edible Insect

Message from the Guest Editors

Insects are increasingly recognised for their exceptional capacity to convert low-value organic substrates into high-quality, nutrient-dense biomass. Species such as the black soldier fly, yellow mealworm, and house cricket have already been shown to have potential in both food and feed applications. While the past decade has seen rapid growth in research on rearing insects on various waste streams, critical knowledge gaps remain regarding the specific nutritional requirements of edible insects and the mechanisms underlying nutrient digestion. Nutrient composition—including proteins, lipids, carbohydrates, minerals, and vitamins—plays a central role in insect growth, survival, development, and biomass conversion efficiency. At the same time, insect species differ in their digestive physiologies, enzymatic capacities, and ability to break down complex nutrients such as fibers. However, these digestive processes and their implications for optimal diet formulation are still insufficiently understood.

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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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