

Special Issue

Nanomaterial-Based Sensors for Food Safety Analysis

Message from the Guest Editors

Nanomaterial-based sensing platforms represent a significant approach to food safety monitoring, enabling rapid, sensitive, and on-site detection of biological and chemical hazards. The development of these advanced sensors represents a vital strategy for public health through the innovative design, synthesis, and functionalization of nanomaterials that provide unique optical and electrochemical properties, facilitating the precise identification and quantification of hazards including pathogens, toxins, pesticides, heavy metal ions, and so on. This Special Issue highlights advancements that can address the urgent need for on-site, point-of-care testing, and all-in-one capabilities to meet requirements. We aim to showcase a selection of reviews and high-quality original research reports providing significant advances in knowledge from research groups worldwide working on nanomaterial sensors. Additionally, research demonstrating novel sensing mechanisms, device integration, and all-in-one capabilities is a core focus of this Special Issue.

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Deadline for manuscript submissions

30 June 2026



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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