

Special Issue

Research Progress on Electrochemical Sensors and Their Role in Food Analysis

Message from the Guest Editors

The demand for analytical methods in food analysis continues to grow, driven by the need for high sensitivity and rapid execution. Within this context, electrochemical sensors have gained significant attention due to their ability to detect specific compounds and contaminants in food matrices with high efficiency.

Recent research has focused on enhancing electrochemical sensing performance through the development of advanced materials such as composites, nanomaterials, metal–organic frameworks (MOFs), biosensors, and aptamers. These materials have contributed to improved sensitivity, broader linear ranges, and lower detection limits, making them highly effective in food quality and safety applications.

Additionally, the integration of chemometric tools and artificial intelligence (AI) with electrochemical techniques has led to novel strategies for data interpretation, enabling robust classification, discrimination, and identification of multiple analytes in food samples.

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Deadline for manuscript submissions

31 January 2026



Foods

an Open Access Journal
by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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