

## Special Issue

# Innovative Electrochemical Methods in Food Analysis: Detection Technologies and AI-Driven Solutions

### Message from the Guest Editor

Electrochemical techniques have stood out for their novelty in identifying molecules or contaminants within a matrix of interest. This is achieved through synthesizing composites, nanomaterials, metal–organic frameworks (MOFs), biosensors, aptamers, and other useful materials to enhance the detection, linear range, and quantification limits of electrochemical sensors.

Additionally, the development of electroanalytical procedures has proven advantageous when combined with artificial intelligence methods for resolving and analyzing the discrimination and identification of different groups based on electrochemical responses.

Potential topics for this Special Issue include, but are not limited to, the following:

Design of electrodes for the detection of compounds in food samples.

Implementation of chemometric methods coupled with electrochemical techniques for developing electroanalytical methods.

Evaluation of compounds in matrices for electroanalytical determination in real-world samples.

Development of electrochemical sensors for the determination of compounds in quality assurance.

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### Guest Editor

Dr. Luis A. Romero-Cano

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### Deadline for manuscript submissions

closed (20 January 2025)



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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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### Editor-in-Chief

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