Special Issue

Nanomaterials in Food and Related Applications: Identification, Detection and Characterization toward Safety Assessment

Message from the Guest Editors

Nanotechnologies are being increasingly explored as revolutionary opportunities in many fields related to the feed and food sectors, from agricultural production (nanofertilizers or nanoencapsulated herbicides/insecticides) to industry processing, including the use of nanomaterials and nanoformulations to provide consumers with healthier and safer food, the development of advanced food contact materials for innovative packaging, and the enhancement of the shelf life and traceability of products. This Special Issue is open to expert reviews and original contributions dealing with advances in analytical methods for the identification, detection, quantification, and physicochemical characterization of constituting components and impurities of pristine nanomaterials, as well as the investigation of complex matrices and systems involved in food- and feed-related applications. Papers on analytical methods are welcome and can include, but are not limited to, the following: spectrometry; spectroscopy; microscopy; tomography. Manuscripts focused on quality control and metrology aspects of nano-specific measurements are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (10 January 2024)

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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2024).