Special Issue

Novel Techniques for the Detection of Toxins and Harmful Substances in Food

Message from the Guest Editors

Natural toxins and harmful substances in food represent serious risks for human health, but they can be managed through detection, monitoring, and preventive measures. For assurance of food safety and protection, it is crucial to prioritize research on advanced analytical techniques for detection and quantification. Advances in analytical techniques, infrared spectroscopy, and artificial intelligence are improving our ability to detect and control food contaminants effectively.
Research and review articles exploring all aspects of "Novel Techniques for the Detection of Toxins and Harmful Substances in Food" are requested for this Special Issue of Foods. This Special Issue will focus on the development of predictive models for natural toxin occurrence and contaminants in food matrices using spectroscopic methods and machine learning technologies, including the influence of agricultural practices, food processing, and storage conditions for contaminant control, highlighting the enforcement of novel techniques for food safety measures and contaminant monitoring in food safety regulatory standards.

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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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