

Special Issue

Food Contamination: Applications of Analytical Detection Methods

Message from the Guest Editors

Food contamination represents a significant public health challenge worldwide, contributing to the annual incidence of food-borne diseases affecting human populations worldwide. Chemical contaminants in food predominantly originate from agrochemicals, such as pesticide and veterinary drug residues, and environmental pollutants in water, air, or soil. Other significant sources include cross-contamination or formation during food processing, migration from packaging materials, the presence of natural toxins, and the use of unauthorized food additives or adulterants. This Special Issue will focus on the application of advanced analytical techniques for detecting known chemical contaminants in complex food matrices. Additionally, there is potential for the discovery of new or unexpected chemical contaminants, which could significantly advance food safety. Furthermore, there is interest in proposing new strategies, such as sample preparation techniques, to enhance the efficacy and reliability of food contaminant analysis.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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