Special Issue

Optical Sensing Technologies for Food Quality and Safety

Message from the Guest Editors

Spectroscopic methods ranging from optical to atomic and mass spectrometry offer exciting opportunities, and these methods can be applied to diverse food testing by disseminating elemental, chemical bonds, and optical transducer information via spectral outputs. In addition, the recent development of machine learning algorithms may expedite the extraction of valuable information from large amounts of spectral data, which is crucial for connecting the dots between spectral peaks and food elements. This Special Issue will be soliciting submissions on the following topics related to food analysis via spectroscopic methods:

- Food composition analysis by spectroscopic methods;
- Spectroscopy-based pathogen detection and/or foreign material detection;
- Food authenticity via spectrometry;
- Application of machine learning algorithms to the spectroscopic data acquired from food analysis;
- Field-deployable spectroscopic instrument for food analysis;
- Evaluation and identification of food spoilage.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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