

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.

Guest Editors

Prof. Dr. J. Paul Robinson

1. Basic Medical Science, College of Veterinary Medicine, Purdue University, West Lafayette, IN 47907, USA
2. Weldon School of Biomedical Engineering, Purdue University, West Lafayette, IN 47907, USA

Dr. Euiwon Bae

Applied Optics Laboratory, School of Mechanical Engineering, Purdue University, West Lafayette, IN 47907, USA

Deadline for manuscript submissions

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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