



Spectroscopy-Based Sensing Technologies for Food Quality and Safety

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:

20 November 2024

Message from the Guest Editors

Dear Colleagues,

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.



mdpi.com/si/134363

Prof. Dr. J. Paul Robinson

Dr. Euiwon Bae

Guest Editors

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)