Special Issue

In Situ Assesment Based on NIRS Sensor

Message from the Guest Editors

Near-Infrared reflectance spectroscopy (NIRS) shows considerable promise for the non-destructive analysis of many products, including applications in food, pharmaceutical, chemical, or medical issues, and is ideally suited to the requirements of the producers and the industry for in-situ and on-line measurements. NIR spectra combined with data analytics offer, for the first time, to provide cost-effective, added-value solutions to a range of product problems as well as, concurrently, opportunities for better understanding their production processes and ingredients. Studies dealing with in-situ and on-line analysis will be emphasized. Sophisticated conditions for applications on industrial scale as well as the evaluation of different construction designs of NIR spectrometers for in-situ and on-line analysis will be taken into account.

- NIR spectroscopy
- In-situ analysis
- On-line analysis
- Quality and safety
- Authentication and frauds
- Effective control systems
- Labelling
- Food for specific groups
- Medical issues
- Quality of tablets, chemical reactions, fermentations, etc
- Production requirements

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Deadline for manuscript submissions

closed (30 November 2022)

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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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