Special Issue

Successful Applications of NIR Spectroscopy and NIR Imaging in the Food Processing Chain

Message from the Guest Editors

In recent decades, near infra-red spectroscopy (NIRS) has reached a primary position among available non-destructive technologies for rapid analysis in several fields, including the food industry. This trend has been boosted by the great developments and extending knowledge in the field of multivariate data analysis (i.e., chemometrics), as well as by the easier accessibility to instrumentation. Consequently, an increasing number of research studies have highlighted the potential and suitability of NIRS for food quality control, food analysis, food authentication, etc. Outside the lab, NIR sensors are widely used in multivariate process monitoring. Depending on the problem under study, NIRS could also be successfully coupled with imaging techniques to provide comprehensive spatial-spectral information on the samples. This Special Issue aims to collect papers and reviews regarding the implementation of NIRS, coupled or not with imaging techniques, along the food chain, from raw material assessment to process monitoring, and from packaging to retail quality control. The focus will be on real in-field applications that could help researchers to export NIRS from the lab to the field.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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