Special Issue

Application of Spectral Techniques in Agricultural Products and Food Analysis

Message from the Guest Editors

Spectroscopic techniques are rapid, non-destructive and environmentally friendly analysis techniques for agricultural production, products that are being processed and finished products for food and non-food uses. They make it possible to estimate different characteristics that determine the quality of these products, such as their overall chemical and nutritional composition. Similarly, they can find applications in the authentication of products such as orange juice, dairy products, and meat as well as in the detection of contaminants (animal meal, impurities, etc.) and in the traceability of meat. We have chosen to limit the spectral techniques to Raman spectroscopy, SERS (Surface-Enhancing Raman Scattering), NIR, MIR, and Fluorescence spectroscopy. The complexity of the spectra obtained from the types of products studied can lead to the use powerful chemometric tools. Chemometrics, which uses mathematical and computer methods to visualize, extract and process the information contained in Infrared, Raman and Fluorescence spectra, has demonstrated a great ability to provide powerful models to classify and predict product quality parameters.

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Deadline for manuscript submissions

closed (20 June 2023)

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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