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Application of Non-invasive Spectral and Multi-spectral Sensors in Food Analysis

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Message from the Guest Editors

Food products must be safe and authentic when delivered to consumers a goal that requires the development of reliable and robust methods for the measurement of food quality, safety, and authenticity. In general, it is time-consuming, destructive, and challenging to investigate the stability of food components using traditional analytical techniques. Therefore, various types of sensors that can identify food components and determine the changes that took place during processing and storage have been developed. Among the proposed promising solutions, spectroscopy-based analytical sensors have shown good potential, enabling noninvasive, quick, and easy measurements in a variety of spectral wavelength regions. Moreover, the combination of different spectral ranges can enhance the accuracy and robustness of sensors, leading to better precision in process monitoring and quality control.

The aim of this Special Issue is to gather together the latest research, trends, and developments in spectroscopy and multi-spectroscopy sensors combined with chemometrics, to authenticate food, monitor food processing, and predict quality changes during storage as well as final product quality.



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Special Issue



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