Special Issue

Photochemistry of Agri and Food Products: Spectroscopy and Optical Sensors

Message from the Guest Editors

This Special Issue focuses on the application of advanced spectroscopy and optical sensor technologies to better understand and optimize the biochemical processes, composition, and quality control of agri-food products. Optical spectroscopy comprises a range of powerful techniques, including luminescence spectroscopy, Raman spectroscopy, Fourier-transform infrared (FTIR) spectroscopy, and UV–near-infrared (NIR) spectroscopy, all integral to the photochemical analysis of agri-food products. The principles underlying these techniques include the interaction of light with matter, where light is absorbed, transmitted, emitted, or scattered, revealing detailed information about molecular structure and concentration. These methods aim to detect and monitor biochemical compounds such as pigments, proteins, lipids, and carbohydrates, offering insights into their roles in biological systems and their implications for food quality and safety.

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Message from the Editor-in-Chief

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