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## Advances in NIR Spectroscopy Analytical Technology in Food Industries

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### Message from the Guest Editors

The concept of Industry 4.0 has prompted a reorganization of the control systems to optimize the production, guaranteeing safer food. Process Analytical Technology, a.k.a. PAT.

Near Infrared Spectroscopy (NIRS) serves the PAT approach as promising process analyser among e-sensing technologies, thanks to its ability in fingerprinting materials and simultaneously analysing different physicochemical phenomena occurring along the process.

The implementation of NIRS Analytical Technology in Food Industries offers some obvious advantages which include controlled and optimized utilization of raw materials, reduction in process cycle time, replacement of slow and costly laboratory testing, and, most importantly, it enables continuous learning, envisioning process and product innovation.

This Special Issue is dedicated to bridge the gap between NIRS potentials and its actual implementation as Analytical Technology in Food Industries. The goal is to close the control loop providing an efficient and automated processing management that could contribute to the minimisation of the environmental footprint of food processing.



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# Special Issue



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## Message from the Editor-in-Chief

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