Recent Advances in Emerging Techniques for Non-destructive Detection of Food Quality and Safety

Guest Editor:

Prof. Dr. Xiaohong Wu
1. School of Electrical and Information Engineering, Jiangsu University, Zhenjiang, China
2. High-tech Key Laboratory of Agricultural Equipment and Intelligence of Jiangsu Province, Jiangsu University, Zhenjiang, China

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Message from the Guest Editor

Currently, the issue of food safety and quality is a great public concern. The non-destructive detection technique (NDDT) has emerged as a powerful analytical tool in the food industries. In order to satisfy the demands of consumers and obtain superior food qualities, NDDT methods are required for quality evaluation. NDDT methods (such as near- and mid-infrared spectroscopy (NIRS), Raman spectroscopy, fluorescence spectroscopy (FS), hyperspectral imaging (HSI), terahertz spectroscopy, X-ray imaging methods and thermal imaging) have provided interesting and promising results in detecting a variety of foods.

NDDT allows the simultaneous measurement of chemical data from food without destruction of the substance. Additionally, NDDT can obtain both quantitative and qualitative data at the same time without separate analyses. This Special Issue aims to collect recent and novel applications of NDDT methods in relation to food quality and safety.

Special Issue

Editor-in-Chief

Prof. Dr. Arun K. Bhunia
1. Department of Food Science, Purdue University, West Lafayette, IN, USA
2. Department of Comparative Pathobiology (Courtesy), Purdue University, West Lafayette, IN, USA

Message from the Editor-in-Chief

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