

Special Issue

Innovative Food Science and Sustainable Process Management

Message from the Guest Editors

Sustainable food production is associated with processes that avoid environmental degradation, do not use a high amount of energy, and are safe. To ensure sustainable development of food technology, existing processing methods are altered or completely new and innovative technologies are introduced. Among different examples, the importance of the following is of the essence: pulsed electric fields (PEF), ultrasounds (US), high-pressure processing (HPP) and homogenization (HPH), microwaves (MV), pulsed light (PL) or cold plasma (CP). Moreover, some traditional technologies can be applied and optimized in order to be more sustainable. What is more, novel technologies or optimized traditional methods allow obtaining high-quality products with minimal degradation of nutrients, preserving at the same time their thermolabile compounds, flavor, taste, texture, and overall quality. Finally, the valorization of byproducts can lead to ingredients (proteins, biopolymers, antioxidants, among others) which can modify both the functional and technological properties of foods, conjoining sustainability with value addition.

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Editor-in-Chief

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