Special Issue

Emerging Technologies in Food and Beverages Authentication

Message from the Guest Editors

During the last years, the open circulation of goods alongside the increased interest of consumers in food and beverage authenticity and traceability led to the development of new analytical approaches that can differentiate among distinct categories. Some examples of which include the following: different geographical or botanical origin, distinct agricultural regime (organic vs. conventional), production years. Usually, a reliable method in this regard will generate an important amount of data that must be efficiently processed to extract the maximum amount of information. Thus, the development of new analytical methods goes hand in hand with the development of new data processing strategies to enhance analytical power. In this context, chemometric methods, machine learning and artificial intelligence tools started to be employed in food authentication to develop sensitive prediction models for food and beverage control. This Special Issue aims to explore the latest development in the use of chemometric methods, machine learning and artificial intelligence tools for food and beverage authentication and traceability.

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Deadline for manuscript submissions

closed (31 October 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/60384

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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