Special Issue

Advances of Accurate Quantification Methods in Food Analysis

Message from the Guest Editors

Food safety and quality always represent an important topic. The accurate quantification of related components (pesticides and veterinary drugs, mycotoxins, persistent organic pollutants, nutrient content, etc.) plays key roles in the guarantee of food safety and quality. Concerning food analysis, sample pretreatment aims to enrich target analytes and remove matrix components (lipids, proteins, salts, acids, pigments, etc.). New extraction or purification sorbents provide high specificity and efficiency for the targets. Combined strategies exhibit excellent performance in lowering matrix effects. Afterwards, detection techniques (chromatography, mass spectrometry, nuclear magnetic resonance and their tandom techniques) provide the final quantification results. Some statistical strategies show great potential in origin traceability, authenticity or adulteration. This Special Issue welcomes any developments in novel sample pretreatment, detection techniques or statistical strategies to realize the accurate quantification of food components.

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Deadline for manuscript submissions

closed (5 May 2022)

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/95479

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