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Challenges in Food Flavor and Volatile Compounds Analysis

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Deadline for manuscript submissions:
30 June 2024

Message from the Guest Editors

The analysis of food flavor and volatile compounds is a demanding task for analytical chemists. The diverse chemical nature of these compounds, and often, their instability and extremely low odor thresholds for important odorants, make their extraction from the food matrix, as well as separation and detection, challenging. Their isolation is mainly performed using extraction techniques based on sorbent technologies (SPME, TF-SPME, HCSE, SBSE and P&T). Two-dimensional gas chromatography, especially comprehensive two-dimensional gas chromatography (GC×GC), plays an increasingly important role in research on aroma/volatiles, and detection methods based on mass spectrometry are routinely used.

The idea of this Special Issue is a follow-on of the symposium entitled “Challenges in Food Flavor and Volatile Compounds Analysis”, which was organized on 22–23 September 2022 at the Poznan University of Life Sciences (https://www1.up.poznan.pl/zchziai/?p=1411). We welcome publications by speakers and participants of this symposium, as well as contributions from other authors whose research is focused on the analytical aspects of food aroma and flavor compounds.

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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

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