Special Issue

The Unique Identification and Quantification of Molecular Species

Message from the Guest Editor

Trace analysis of molecules comprises identification and quantification. The unique identification and quantification of molecular species becomes problematic when it comes to trace analysis. Trace analysis is concerned with the identification of very small amounts of chemicals. The concentration of each such chemical may go down into the sub-ppm range. Despite the very small quantities, analysis is highly relevant for analyzing wastewater streams, drinking water quality, forensics, toxicity studies and quality of specific chemical and pharmaceutical (by-)products. This often does not only refer to low quantities but, normally, a much larger number, up to hundreds or thousands, of species that also need to be identified and quantified and separated. In this Special Issue, we provide the reader with an overview of the status of trace chemical identification and quantification, completed with some suggestions for future improvements. Submissions of original research articles, short communications, and review articles are most welcome.

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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