



Applications of Ambient Ionization Methods for Mass Spectrometry

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Message from the Guest Editor

The immediate analysis of complex samples from our environment has been attracting tremendous attention for several years. A particularly exciting field of research in this respect is modern on-site analysis. The potential applications of mobile analytics are: chemical process control, in situ diagnostics in medicine, disaster control and safety screening for banned substances, environmental assessment of pollutants in soil, water and air, and ensuring the safety of food and consumer products.

Mass spectrometry (MS), as one of the most powerful methods for the structure elucidation of substances, is the analytical technique of choice for unambiguous identification, and its selectivity can be well used to characterize sample mixtures of different origins. However, the transportability of these systems has always been a limiting factor when it comes to field analysis. Here, the miniaturization of mass analyzers and the development of mobile mass spectrometers have also led to major advances.

With this issue, we would like to invite manuscripts demonstrating first promising applications of mobile mass spectrometry.

