Special Issue

Applications of Ambient Ionization Methods for Mass Spectrometry

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.

Guest Editor

Dr. Claudia Birkemeyer

Institute of Analytical Chemistry, University of Leipzig, 04109 Leipzig, Germany

Deadline for manuscript submissions

closed (15 August 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/70807

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)