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Advanced Mass Spectrometric Technology: Development and Applications in Chemical and Biological Analysis

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses mainly on theoretical and experimental studies on mass spectrometry, specially designed for chemical and biological analysis. Mass spectrometry has become an indispensable tool to determine charged particles' mass-to-charge ratios (*m*/*z*). As is well-known, its performance heavily depends on the development of ionization sources, ion transfer systems, and mass analyzers. Their advances pave the way for the high-efficiency analysis of target compounds in various samples. This issue covers the recent advances in the related studies of an ambient ionization source, ion transfer system, mass analyzer, and their applications to chemical and biological analysis. Along with the practical need for in-field analysis, the miniature of mass spectrometry has also received considerable attention. As such, miniaturized mass spectrometers are also included in this topic. Reviews, perspectives, research communications, and articles are welcome. The collected contributions will receive considerable attention from researchers and significantly impact the rapid development of mass spectrometry.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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