

## Special Issue

# High Resolution Mass Spectrometry in Molecular Sciences

### Message from the Guest Editor

An aspiration for high resolution, accuracy and sensitivity in spectroscopic and spectrometric methods can be paraphrased by the Olympic motto of Citius, Altius, Fortius (faster, higher, stronger). Demands for high mass-resolving power and mass-measurement accuracy, as well as for speedy data acquisition, have been the driving forces toward advances of instrumentation that facilitate the pursuit of challenging applications of mass spectrometry. The introduction of the Fourier transform (FT) approach and the development of the high-resolution time-of-flight (TOF) method of ion sorting have enabled a paradigm shift to meet these challenges. FT ion cyclotron resonance (FT-ICR), Orbitrap and TOF instruments are commercially available in many of today's mass spectrometers and often in "hybrid" configurations that bring them together seamlessly with other analyzers, such as quadrupoles and ion traps within one instrument. In addition to conventional research articles and reviews, this Special Issue also welcomes commentaries, opinions and perspectives on the progress and applications of high-resolution mass spectrometry in broad areas of the molecular sciences.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 March 2021)



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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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