

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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