Special Issue

Accelerator Mass Spectrometry

Message from the Guest Editor

Accelerator mass spectrometry (AMS) has now been employed in a variety of vastly different settings for over 40 years. By using an accelerator system as a mass spectrometer, we can achieve an improvement in the sensitivity of isotopic abundance measurements by several orders of magnitude in comparison to standard mass spectrometers. In particular, AMS provides the means to measure minute traces of long-lived radioisotopes of cosmogenic or anthropogenic origin in practically every aspect of the natural and physical world. This Special Issue will thus outline topics of current AMS research interest. For example, articles on AMS instrumentation and methodologies, applications in archaeology, astrophysics, biomedicine, climate studies, atmospheric and environmental 14C, oceanography, and nuclear waste management.

Guest Editor

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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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