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Analytical Chemistry in Astrobiology

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Deadline for manuscript submissions:

closed (31 March 2019)

Message from the Guest Editor

The goal of this Special Issue is to focus on the technological advances that have enabled to further the systems approach and chemical understanding in the field of astrobiology. Papers describing works in all analytical sectors of separation sciences (chromatography, electrophoresis, etc), spectroscopy (over the whole spectral range for direct or remote chemical analysis, from optical to specific frequencies), and spectrometry (mass analysis, hyphenated techniques), as well as more comprehensive and integrative approaches, such as those observed in the modern field of omics, will be welcomed in this Special Issue. We welcome astrobiology-relevant topics based on chemical observations from the large- to the nanoscale, nanofluidics or miniaturization of chemical analyses, organic analysis of specific targets with isotopic or enantiomeric specificity of complex mixtures with chemical resolution, observation of biological systems (microbiomes of higher organisms) under space conditions and stresses. The chemistry of interest will involve the whole astrochemiome, from small volatiles, which represent the first steps in the synthesis of biology-relevant macromolecules, to biomolecules.



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Special Issue



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Message from the Editor-in-Chief

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