

Special Issue

Application of Gas Phase Ion Chemistry

Message from the Guest Editors

Flow tube mass spectrometry and ion mobility mass spectrometry (IMS) pioneered the study of gas phase ion molecule reactions since the 1960s. The study of ions in the gas phase has greatly progressed over the years due to considerable advances in instrumentation and mass spectrometry techniques. The development of ionization methods, such as chemical ionization (CI) and electrospray (ESI), along with mass analyzers, such as selected ion flow tubes (SIFTs) and ion trap (ITs), enabled an analysis of the characteristics of both positive and negative ions in the gas phase and its features.

Gas-phase ion chemistry has applications in many areas, where thermodynamics and reaction kinetics are well-known fields of application. It is also employed to determine the fundamental properties of molecules and structure elucidation.

In this Special Issue, we invite submissions in the fields of organic and inorganic mass spectrometry, including the latest applications and results in this field of study. Manuscripts may be either research papers, communications, or review articles that focus on an aspect of these subjects.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2023)



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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