

## Special Issue

# Spectroscopic Probes of Ion-Molecule Interactions in the Gas Phase

### Message from the Guest Editor

The range of applications of molecular spectroscopy is constantly expanding. Systems under study are ever more closely approximating species in solution while under complete control of temperature and composition. These tools allow for the characterization of ion-molecule interactions in complexes and clusters - especially when paired with mass spectrometry - employing techniques such as micro-solvation and solvent exchange, collision induced dissociation, cryogenic tagging, isotopic labeling and multi-photon excitations from one or multiple light sources. These improvements now allow us to address fundamental questions in fields ranging from fundamental physics to biology. This special issue is meant to provide an overview of recent advances in optical spectroscopies in the frequency and time-domain, with an emphasis on the intersection of spectroscopy with mass spectrometry-based techniques. These include applications to a broad variety of fields: organic and inorganic reaction intermediates, ion molecule reactions, ionic salt and ion-solvent clusters, ionic liquids and biological molecules including non-covalent interactions with drug targets.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 December 2021)



## International Journal of Molecular Sciences

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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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