# Special Issue

# Ionic Liquid Structures through Molecular Spectroscopic Methods

## Message from the Guest Editor

Ionic liquids (ILs) are a class of organic salts in liquid state below 100 °C. They have been demonstrated to act as “green” reaction media for various chemical reactions and usually serve as environmentally friendly solvents, electrolytes, and lubricants, amongst others. Because of this property, ILs have become of significant relevance in chemistry. In order to understand the physicochemical properties of ILs, it is necessary to monitor the structures of ionic liquids and to examine the existing interactions among anions and cations. Spectroscopy techniques, including FTIR and Raman spectroscopies as well as UV–Vis and fluorescence spectroscopy, are powerful tools to characterize ILs. In this Special Issue, we solicit review articles, original research papers, and short communications covering all aspects of the use of molecular spectroscopic methods in studies of ILs and their mixtures with molecular solvents or other important chemicals.

## Guest Editor

Prof. Dr. Zhiwu Yu
Department of Chemistry, Tsinghua University, Beijing, China

## Deadline for manuscript submissions

closed (30 September 2021)

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*Molecules*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules

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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.

## Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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