

Tentative Outline

Special Thematic Issue for *Current Analytical Chemistry*

Title of the Thematic Issue

“Advanced applications of ionic liquids and polymeric ionic liquids in analytical chemistry”

Guest Editor: Dr. Bishnu Regmi

• Scope of the Thematic Issue:

The applications of ionic liquids are continuously increasing because of their unique properties, such as negligible vapor pressure, high thermal stability, high conductivity, and customizable physicochemical properties. Ionic liquids have different subclasses, including magnetic ionic liquids, polymeric ionic liquids, task-specific ionic liquids, and chiral ionic liquids. The unique properties of ionic liquids have made them suitable for a wide array of applications in the field of analytical chemistry and others. They have been used in extraction, chemical sensing, separation, and mass spectrometry. There has been upsurge of publications related to the applications of ionic liquids in analytical chemistry.

This thematic issue is focused on the advanced applications of ionic liquids and polymeric ionic liquids in different domains of analytical chemistry, with a focus on more recent studies. Reviews focused on recent analytical applications of ionic liquids are welcomed to this issue. In addition, authors are also invited to submit original research focused in this area.

Keywords

Ionic liquids; gas chromatography; extraction; separation; sensors; mass spectrometry; nucleic acids

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Ionic liquids in extraction
- Ionic liquids in separation
- Ionic liquids in mass spectrometry
- Ionic liquids in sensing
- Ionic liquids in nucleic acid analysis
- Applications of conductive polymeric ionic liquids

Tentative titles of the articles and list of contributors:

The tentative title of the articles will be decided by the contributing authors.

Schedule:

Thematic issue submission deadline: **January 31, 2022**

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