

Special Issue on
Spectroscopic Investigation on Ionic Liquid-Based Systems

CALL FOR PAPERS

One of the longest-standing problems facing the chemical industries and academia is continued reliance on huge amounts of volatile organic compounds (VOCs). The VOCs which are used in many of the synthetic, catalytic, and polymerization reactions and in various types of separation and extraction processes are generally toxic, hazardous, flammable, and environmentally damaging in nature. As replacements of these VOCs, ionic liquids (ILs) have appeared as potential alternatives due to their unusual physicochemical properties and immense application potential in many fields. Ionic liquids have currently emerged as intriguing modern material in science and technology. In order to understand and explore the unique and interesting features associated with ionic liquid-based systems, various spectroscopic techniques are of utmost importance.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the unique features associated with ionic liquid-based systems using various spectroscopic techniques as key tools. We are particularly interested in articles describing the application of spectroscopies in understanding the interactions taking place between ionic liquids and other compounds of large importance.

Potential topics include but are not limited to the following:

- Understanding structure-property relationship for different types of ionic liquids using different spectroscopic techniques, for example, UV-Vis, fluorescence, FT-IR, and NMR spectroscopy
- Spectroscopic investigation of aqueous ionic liquid solutions
- Investigating ionic liquid-polymer interactions using the aforementioned spectroscopic techniques
- Exploring the formation and properties of surfactant self-assemblies within ionic liquid-based media via spectroscopic investigations
- Spectroscopic investigation on the effect of ionic liquid on dye aggregation
- Exploring solvent-solvent and solute-solvent interactions involving ionic liquids using various spectroscopic techniques

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jspec/siilp/>.

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