Special Issue

Ionic Liquids: From Theory to Applications

Message from the Guest Editors

In the last 10 years, the field of Ionic liquids (ILs) has attracted considerable attention and has rapidly developed into a major scientific area in its own right. The study of ILs is highly interdisciplinary and, based on organic chemistry, it encompasses many disciplines, including physical chemistry, chemical engineering, materials science, chemical biology and environmental science. ILs are currently emerging in industrial processes (such as 3D printing, lubricants, biomass processing) and their use will likely be further expanded. We welcome original contributions reporting on fundamental work, ranging from molecular dynamics simulations to applications of ILs, and including, but not limited to, the design of advanced materials, separation processes, electrochemical sensors, advanced batteries, fuel cells, dye-sensitized solar cells, the production of nano-materials, polymer science for preparation of porous and conductive polymers, biomass processing, and the extraction of heavy metals and in lubrication.

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Message from the Editor-in-Chief

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.

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