Special Issue

Organometallic Ionic Liquid

Message from the Guest Editor

Ionic liquids (IL) are one of the most variable classes of compounds with very different physical and chemical properties. Metal-containing ionic liquids are regarded as materials that combine the properties of ionic liquids with additional intrinsic magnetic, spectroscopic, or catalytic properties, depending on the enclosed metal ion used. Use of ILs spans over wide fields, from immobilizing solvent for metal catalysts and reaction media to catalysts, where ILs with metal-containing anions are active in diverse reactions.
Metal-containing ILs, based on unique magnetic or spectroscopic properties, are gaining attention in the preparation of new sensors and analytical applications. However, more information is needed on the safety and environmental impacts relating to metal-containing ionic liquids in order to lower the barrier for their widespread industrial application. This Special Issue aims to highlight the structural and chemical diversity of organometallic ionic liquids in order to assist this promising area to have a broader field of application.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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