

Special Issue

The Science and Technology of Ionic Liquids: Their Contribution to Society

Message from the Guest Editors

Ionic liquids are salts that are liquid at room temperature. They have attracted attention as a third solvent, after water and organic solvents. In particular, since the latter half of the 1990s, the research and development of ionic liquids as new non-flammable or flame-retardant electrolyte materials has progressed to enable their use as electrolytes in electricity storage devices. Ionic liquids have a high dissolving power when applied to various substances and are chemically stable. As such, they have attracted attention for their potential for use in a wide range of activities. However, there are still unresolved issues, such as production costs and safety for the body. Some ionic liquids are now being produced on an industrial scale, but there do not appear to be many reports on the development of products or application technologies that use ionic liquids. The editors pay tribute to the work of ionic liquid researchers over the past 30 years, and we look forward to receiving reports of ionic liquids that will contribute to people's lives and society, as well as papers on the science and technology of ionic liquids that are necessary to achieve this.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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