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Synthesis and Applications of Magnetic Ionic Liquids

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Message from the Guest Editors

Dear Colleagues,

Magnetic ionic liquids (MILs) are a class of ionic liquids that have paramagnetic properties due to the presence of a transition metal or lanthanide in the cationic or anionic structure. This offers the advantage of being responsive to an external magnetic field, providing a large potential for different technological applications, such as catalysis, transport, and separation of materials and gases. The synthesis of MILs is rapidly growing, and their applications are becoming broader. With this Special Issue, we aim to present the latest developments not only around their applications but also in order to offer an overview of new MILs and novel methodologies for their synthesis. Topics of interest in this Special Issue include but are not limited to:

- Synthesis and characterization of MILs;
- MILs in separation techniques;
- MILs in electrochemistry;
- MILs for analytical sample preparation;
- MILs in material sciences;
- MILs in drug delivery.

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Guest Editors



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Special Issue



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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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