High-performance Green Extraction of Bioactive Substances from Plant Resources using Deep Eutectic Solvents (DES)

Guest Editor:

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Message from the Guest Editor

Deep eutectic solvents (DES), are newly designed liquids, composed of inexpensive, recyclable and non-toxic materials, which can be natural substances (e.g., sugars, organic acids and salts, etc.). Recently, the use of such solvents for the extraction of natural products has been attracting interest, because of their unique potency that allows for extraction yields higher than those achieved with conventional solvents.

This Special Issue addresses the concept of innovative and emerging green methodologies that aim at effectively utilizing DES for the extraction of bioactive compounds from plant resources. Contributions pertaining to novel DES synthesis, investigation of DES properties, sustainable production of isolated bioactive compounds or whole extracts, and their utilization in the food, cosmetic or pharmaceutical industries are particularly welcome.

Keywords:

- deep eutectic solvents
- green extraction
- phytochemicals