



Advances in Deep Eutectic Solvents: New Green Solvents

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Message from the Guest Editors

Deep eutectic solvents (DESs) are composed of hydrogen bond acceptors (HBAs) and hydrogen bond donors (HBDs), and they have properties similar to those of ionic liquids (ILs), such as low vapor pressure, generally high thermal stabilities, low volatility, adjustable structure, and high solubilities of a wide variety of solutes. Compared to ILs, DESs tend to be inexpensive, biodegradable, nontoxic, and easy to prepare by mixing HBAs and HBDs. Hence, DESs are considered as an emerging class of green solvents and have received increasing attention in the past two decades.

This Special Issue on “Advances in Deep Eutectic Solvents: New Green Solvents” aims to curate novel advances in the development and application of DESs as green solvents in separation and chemical reactions. Suitable topics include, but are not limited to:

- Properties and thermodynamics of DESs;
- Extraction and separation;
- Gas absorption and separation;
- Biomass and bioactive materials processing;
- Electrical chemistry application and green energy;
- Catalytic reaction and green processes using DESs as green solvents.





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Message from the Editor-in-Chief

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