



RECENT ADVANCES IN DEEP EUTECTIC SOLVENTS: FUNDAMENTALS AND APPLICATIONS

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DESCRIPTION

Deep eutectic solvents (DESs) have attracted great attention both in academia and industry. The interest on DESs has been based on the applicable range of compounds which can be mixed to form DESs at room temperature, thus providing a large platform for developing new solvents for task-specific purposes. DESs can be produced from low cost, renewable and natural sources, leading to liquids with low toxicity and high biodegradability. Therefore, DESs application in a wide range of areas has been developed, from extraction solvents, to gas separation operations, in agrifood industry, pharmaceuticals, cosmetics, electrochemistry, or materials sciences.

The aim of this Topical Issue on DESs in Green Processing and Synthesis journal (GREENPS) is to bring experts in DESs area showing recent advances in fundamentals understanding of DESs nature and properties as well and showing new technological applications. Experimental and theoretical approaches are welcome to provide a broader and multiscale perspective on the subject to the readers. This Topical Issue may attract the ongoing research activities on DESs, showing advances and needs, strengths and weaknesses, and guiding future developments into the DESs research area into a sustainable chemical and related processes and industries.

KEY TOPICS

- ▶ Physicochemical and thermodynamic properties of DESs
- ▶ Fundamentals of hydrogen bonding in DESs
- ▶ Solvation in DESs
- ▶ Nanostructuring in DESs
- ▶ DESs for extraction and separation
- ▶ Molecular simulation of DESs
- ▶ DESs application for energy and environment
- ▶ Bio and pharmacological applications of DESs
- ▶ DES in water treatment operations
- ▶ Electrochemistry
- ▶ DESs for oil and gas industries

HOW TO SUBMIT

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In order to make the preparation of manuscript easier, you are advised to use the Manuscript Template: https://www.degruyter.com/publication/journal_key/GPS/downloadAsset/GPS_Manuscript%20template.docx

All submissions to the Topical Issue must be made electronically via the ScholarOne submission system of GREENPS: <https://mc.manuscriptcentral.com/greenps>

All manuscripts will undergo the standard peer-review process (single-blind, at least two independent reviewers). When entering your submission via online submission system please choose "**Topical Issue: Eutectic Solvents**".

Submission of a manuscript implies that the work described has not been published before and it is not under consideration for publication anywhere else.

The deadline for submissions is **August 15, 2021**, but individual papers will be reviewed and published online on an ongoing basis. Accepted papers will be published in Vol. 10 (2021) of Green Processing and Synthesis.

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