Special Issue

Applications of Deep Eutectic Solvents in Analytical Chemistry

Message from the Guest Editors

The current trends in analytical chemistry advocate the development of sustainable methodologies which have a minimal impact on environment and reduce or eliminate the use and generation of hazardous substances. In fact, the application of low-toxicity or nontoxic solvents such as DES and, most recently, natural DES (NADES) has become one of the most important actions. This new generation of green materials is constituted by at least two components, a hydrogen bond donor (HBD) and a hydrogen bond acceptor (HBA) that, when combined, produce a new substance with higher volatility than that of the initial reagents. DES and NADES presents variable and unique properties that make them excellent materials to be applied in many fields, including analytical chemistry. They have been used not only as solvents in sample preparation, but also as stationary phases and sensors components or as additives in mobile phases. The aim of this publication is to present the most recent applications of DES and NADES in the area of analytical chemistry, as well as provide a wide and accurate overview of the recent advances and future trends in the field.

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