Special Issue

Applications of Deep Eutectic Solvents in Life Science Engineering

Message from the Guest Editor

Increasing concerns about the environmental and health impact of some conventional solvents has turned researchers' attention toward finding alternative green solvents. One class of promising green solvents, Deep Eutectic Solvents (DES), is usually prepared from natural, inexpensive, and biodegradable materials. DES are formed by mixing two or more components, where the resulting eutectic mixtures show a large depression in melting temperature compared to the pure compounds. However, studies investigating the applicability of these solvents at the process scale, their recycling, and their economic feasibility have yet to be published. In addition, the selection of DES candidates for a particular application is currently primarily done by trial-and-error. We are looking forward to receiving experimental and theoretical investigations concerning the structure of DES in liquid as well as solid phases, their use in the recovery and separation of (active) compounds from natural sources and synthetic liquid mixtures, their application in product formulation, and DES recycling strategies.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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