

Special Issue

Recent Advances in Ionic Liquids and Deep Eutectic Solvents for Task-Specific Catalysts

Message from the Guest Editors

Ionic liquids (ILs) and deep eutectic solvents (DESS) have gained tremendous attention due to their tunable physicochemical properties such as low vapor pressure, good thermal stability, ionic conductivity, wide range of electrochemical stability, etc. This advent of innovative solvents opened new avenues with target-specific applications for materials (nanostructured, (metal)nanoparticles), catalysts (catalytic and biocatalytic reaction process, air and water purification, separations, etc.), biomass, and energy (batteries, hydrogen and oxygen production, cellulosic ethanol, biodiesel, etc.). This Special Issue is designed to give a comprehensive overview of the “state-of-the-art” to the most recent advancement in the field through sustainable chemical approaches. This Special Issue invite researchers to contribute their findings covering all aspects broadly as mentioned to promote the latest developments in research and innovation through sustainable strategies and characterization.

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