

Special Issue

Deep Eutectic Solvents for the Extraction of Bioactive Compounds from Natural Sources

Message from the Guest Editors

The extraction of bioactive compounds from natural sources is crucial due to the therapeutic, nutritional, and industrial benefits that these compounds possess.

Utilizing natural sources reduces reliance on synthetic chemicals and minimizes environmental impact, where the use of deep eutectic solvents (DESs) for the extraction of natural compounds additionally promotes sustainability and the greenness of the process.

Innovative applications of DESs in the field of natural product extraction from diverse natural sources contribute to the development of medicines, functional foods, and cosmetics. Research so far demonstrates DESs' superior extraction efficiencies, particularly for polar and thermolabile compounds. Notable advantages are also reduced solvent consumption, improved selectivity, and compatibility with environmentally friendly extraction techniques like ultrasound and microwave assistance. Therefore, this Special Issue will cover fundamental research as well as practical applications, providing an overview of current state, future developments, and potential applications of deep eutectic solvents in the extraction of natural compounds.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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