Special Issue

Two-Phase Systems: New Trends and Applications

Message from the Guest Editor

Two-phase systems are a technique for liquid–liquid fractionation, comprising aqueous two-phase systems, and recently have included systems with low or no water content in coexisting phases. These systems are initially formed from a pair of polymers dissolved in water above a critical concentration, and previously have also used salts, organic solvents, ionic liquids, and deep eutectic solvents as constituents. Nowadays, systems formed from low concentrations of water (alcohols + salts + water) or no water (ionic liquids + polymers + ethanol) have also been reported in the literature. This Special Issue presents a set of high-quality research focused on new trends in, and applications of, two-phase systems, such as the following: the use of new constituents and the construction of new phase diagrams for aqueous two-phase systems, as well as biphasic systems with no or low water content; new applications for obtaining biomolecules of interest for the cosmetics, pharmaceuticals and chemicals industries, in addition to potential use in analytical protocols. This issue also focuses on new reactor designs, continuous systems, and intensification procedures.

Guest Editor

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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