

Special Issue

Novel Green Solvents for the Separation and Purification of Valuable Natural Ingredients

Message from the Guest Editor

Natural plants contain countless ingredients, and many of them are pharmacologically active. These useful compounds could be used to cure diseases, become construction materials, inspire researchers, and much more. To obtain these valuable natural ingredients, many technologies have been developed over a long history. Specifically, solvents play an important role in their separation. Traditional solvents, such as methanol, ethanol, and petroleum ether, have the disadvantages of polluting the environment, a high toxicity, and the inability to regenerate. Thus, seeking alternative solvents has sparked the interest of researchers. Ionic liquids, called "solvents of the future", have a diverse composition of organic cations and inorganic anions. Moreover, deep eutectic solvents are a new type of green mixed solvent that has rapidly developed in recent years. These novel solvents have broad application prospects due to their advantages, which include low volatility, low vapor pressure, strong thermal stability, and molecular designability. Considering the diversity of natural ingredients, more research on this topic is still warranted.

Guest Editor

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