Special Issue

Focus on Supercritical Fluids: Control and Extraction

Message from the Guest Editors

The use of subcritical (SubFs) and supercritical fluids (SCFs) as processing media enables processes at lower operating temperatures without organic solvent residues, and requires lower energy consumption than conventional methods. The final products are solvent-free. Considering these qualities, SCFs could certainly be applied as a replacement for conventional solvents in extractive and non-extractive processes, as nontoxic, inexpensive, non-flammable, and non-polluting solvents. Supercritical fluid extraction (SFE) is a relatively new, innovative and promising separation process in which solids or liquids are processed with SCF to extract soluble compounds from mixtures. The main objective of this Special Issue is to discuss SubF and SCF and related processes. The focus is on sub- and supercritical extraction, fractionation, and the purification of bioactive compounds and their bioactive activity.

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