



SOLVENTS: PROPERTIES AND THEIR APPLICATIONS IN GREEN CHEMISTRY

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In recent years, we are very interested in thermodynamics of green solvents and their applications in green chemistry, which include mainly: 1) phase behavior and intermolecular molecular interaction in complex supercritical fluid (SCF), IL, supercritical (SC) CO₂/IL and SC CO₂/PEG systems; 2) chemical reactions in SC CO₂, ILs and CO₂/ILs, special attention is paid to enhancing the efficiency of chemical reactions using the unusual properties of green solvents; 3) the physicochemical properties and applications of the green microemulsions related with SC CO₂, ILs and PEG; 4) fabrication and characterization of different functional materials using green solvents, including those that are difficult to prepare using conventional solvents. In this presentation, we will discuss some of our recent work.

References

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