

Special Issue

Interfacial Chemistry, Conformational Dynamics, and Molecular Assemblies of Amphiphilic Molecules

Message from the Guest Editor

This Special Issue covers obtaining surface equations of state (SEOS) of amphiphiles for binary systems of amphiphiles and solvents, as well as from ternary systems when a binary mixture of amphiphiles is present in addition to the solvent, and theoretical and experimental methods of investigating the conformations of amphiphiles at the boundary surfaces. Molecular associations or phase laws occur if there are more types of amphiphiles (surfactants) in the aqueous solution/air interface. Other topics covered by the Special Issue include the mechanism and thermodynamics of micelle formation (mono-component and binary mixed) from the saturated aqueous solution/air interface (Jesús Gracia-Fadrique's surface pressure of micellar formation); the confirmation of surfactants in micellar aggregates and the mechanism of micellar solubilization and conformational changes in surfactants during the incorporation of solubilizes—entropy–enthalpy compensation in the thermodynamic process of adsorption and micelle formation.

Guest Editor

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