Special Issue

Characterization and Properties of Nanostructures in Liquids and Liquid/Liquid Interfaces

Message from the Guest Editor

The majority of chemically formulated products contain nanostructures in the liquid bulk and/or at the interfaces. Ice creams, sunscreen lotions, toothpastes, lipsticks, paints, glues, and bituminous binders are some examples. These products are polyphasic systems where several phases (liquid, solid, gas) must coexist, leading to various interfaces. To obtain the specific required end-user properties, a subtle combination of scientific disciplines comes into play: formulation science (colloid chemistry, dispersed systems, surfactants, nanoparticles), chemical engineering (mixing, emulsification processes), rheology (flowing, hydrodynamic and structural characteristic properties), and interfaces (interfacial rheology, particles adsorption, surface tension, wetting). In addition, the behavior of nanoparticles or nano-objects in the liquid bulk and at various interfaces has become a hot topic in this field.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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