Special Issue

Micro/Nano Emulsions: Smart Colloids for Multiple Applications

Message from the Guest Editor

Microemulsions are continuously attracting the interest of researchers due to their unique properties, such as ultralow interfacial tension between oil and water phases, large interfacial area, thermodynamic stability, and ability to solubilize otherwise immiscible liquids. They are colloidal fluids containing one surfactant film, classified as oil-in-water (o/w), water-in-oil (w/o) or bicontinuous systems depending on their microstructure. Nanoemulsions are kinetically stable liquid dispersions, consisting only of nanodroplets with sizes of a few hundred nm. Although they do not form spontaneously but are obtained by mechanical force, nanoemulsions are widespread in the food, pharmaceutical, and personal care industries due to their unique physicochemical properties and functional attributes, such as high surface area per unit volume, transparent appearance, tunable rheology, and advanced bioavailability. I warmly invite scholars involved in the Colloids and Surface Science research areas to contribute original research papers as well as review articles to this Special Issue.

Guest Editor

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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

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