

Special Issue

Micro/Nano Droplets/Bubbles for Therapy, Diagnosis and Theranostics

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue on the formulation and characterization of novel micro/nano droplets/bubbles and their interaction with acoustic waves in the medical field. This Special Issue aims to provide a collection of the newest research achievements in the use of gas-loaded structures in the field of therapy, diagnosis and theranostics. Since the development of ultrasound contrast agents, based on gas-filled micro-sized bubbles, as enhancers of the capabilities of ultrasounds for imaging modality, these structures have increasingly become a subject of interest for several researchers in different medical areas. In particular, the formulation of nano-sized and stable bubbles/droplets is still a challenge for several researchers in the development of new imaging, tracing and analytical techniques, operating in deeper sites of the body. Furthermore, these structures can interact with focused ultrasounds in a localized area, inducing the sonoporation phenomenon, with an increase in cell membrane permeability, making them useful in therapy and theranostic fields.

Guest Editors

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Deadline for manuscript submissions

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