# **Special Issue**

# Nanobubbles and Their Applications

## Message from the Guest Editors

The stable existence of nanobubbles/ micropancakes may have significant effects on many important processes such as protein folding, peptide selfassembly, boundary slip, and activities of electrochemical reactions. Also, in recent years. nanobubbles have been widely used in water treatment. aguaculture, agricultural cultivation, health preservation, mineral flotation, and many other fields. However, the fundamental question, why the surface and bulk nanobubbles could exist stably, is still under the way because the paradox of a short lifetime predicted by the Epstein-Plesset theory and the observed long lifetime of nanobubbles in water is not vet been resolved. Moreover, many mechanism of nanobubbles used in various applications, for example, aggregation states in different solutions, biological effects, and interfacial properties, are need further exploitation. In the present Special Issue, we have invited contributions from leading groups in the field with the aim of giving a balanced view of the current state-of-the-art in this discipline.

#### **Guest Editors**

Prof. Dr. Lijuan Zhang

Prof. Dr. Seiichi Oshita

Prof. Dr. Xianren Zhang

## Deadline for manuscript submissions

closed (30 April 2023)



# **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



mdpi.com/si/113601

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials





# **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



# **About the Journal**

## 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 nanometerscale 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

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

#### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering )

