



## Applications of Bubble Dynamics in Ocean Engineering: Theory, Experiment and Simulation

Guest Editors:

**Dr. Xiao Huang**

School of Marine Science and Technology, Northwestern Polytechnical University, Xi'an 710072, China

**Prof. Dr. Abdellatif Ouahsine**

Laboratoire Roberval, Sorbonne Université, Université de Technologie de Compiègne, Centre de recherches Royallieu, CS 60319, CEDEX, 60203 Compiègne, France

**Dr. Peng Du**

School of Marine Science and Technology, Northwestern Polytechnical University (NPU), 127 Youyi Road, Beilin, Xi'an 710072, China

Deadline for manuscript submissions:

**15 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Bubble dynamics have been focused on since the Renaissance and foreshadowed by Leonardo da Vinci, who observed spiral floating bubbles. Many researchers have paid continuous attention to this topic for centuries. In ocean engineering, bubble dynamics are widely used, such as in marine resource exploration, surface cleaning, and underwater explosions, as well as acoustic detecting, etc. The purpose of this Special Issue is to publish the most exciting research with respect to the above subjects and show state-of-the-art scientific achievements. Research that uses theoretical, experimental or numerical methods to explain new bubble dynamics or the new applications of bubbles, especially in ocean engineering, may fit this Special Issue perfectly.

Dr. Xiao Huang  
Prof. Dr. Abdellatif Ouahsine  
Dr. Peng Du  
*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Charitha Pattiaratchi**  
Oceans Graduate School and The  
UWA Oceans Institute, The  
University of Western Australia,  
Perth, WA 6009, Australia

## Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

## Author Benefits

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

**High Visibility:** indexed with Scopus, SCIE (Web of Science), GeoRef, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (*Civil and Structural Engineering*)

## Contact Us

---

*Journal of Marine Science and  
Engineering* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/jmse  
jmse@mdpi.com  
X@JMSE\_MDPI