



## 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:  
**closed (28 February 2026)**

### 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**  
School of Engineering, The UWA  
Oceans Institute, The University  
of Western Australia, Perth, WA  
6009, Australia

## Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

## 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), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

## Contact Us

---

*Journal of Marine Science and  
Engineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

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