

Special Issue

Micro Sensors and Devices for Ocean Engineering

Message from the Guest Editor

This Special Issue focuses on cutting-edge sensor technologies for ocean observation and detection, showcasing integrated innovations spanning from microscale devices to macroscale system-level integration. Emphasis is placed on novel sensors for key ocean parameters, supported by manufacturing advances in micro/nanofabrication, biomimetic structuring, multifunctional integration, and corrosion- and high-pressure-resistant encapsulation. We welcome contributions on manufacturing methods, innovative materials, process optimization, and in situ performance validation of marine sensors. Relevant application domains include, but are not limited to, sensing of temperature, salinity, pressure, acoustic signals, flow velocity, electric and magnetic fields, pH, dissolved oxygen, and hydrogen. This Special Issue aims to drive technological breakthroughs in marine sensor manufacturing and help build the device-level foundation for next-generation intelligent, long-endurance, and high-resolution ocean observation networks.

Guest Editor

Prof. Dr. Chenyang Xue

School of Aerospace Engineering, Xiamen University, Xiamen 361005, China

Deadline for manuscript submissions

31 July 2026



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/261938

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

[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)





Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).