

## Special Issue

# The Changing Arctic: Ocean–Ice Interactions and Emerging Observational Frontiers

### Message from the Guest Editors

The Arctic faces rapid, unprecedented climate-driven changes—amplified by ocean-ice-atmosphere interactions—including ocean warming, declining sea ice, and new circulation/ecosystem patterns. Understanding these is critical for the Arctic and global climate, sea level, ecosystems, and societies. We invite contributions on:

- Arctic Ocean/sea ice system changes (long-term/recent);
- High-resolution sea ice and coupled ocean-ice modeling advances;
- Satellite data for Arctic model monitoring/validation/improvement;
- Interdisciplinary links between physical changes and ecological/socio-environmental impacts;
- Future Arctic change projections and uncertainties.

We encourage studies combining modeling-satellite approaches, or offering new past variability insights to inform future projections. By connecting observational, modeling, and theoretical communities, this Issue advances Arctic system understanding and predicts its trajectory in rapid climate change. We look forward to your contributions.

---

### Guest Editors

Prof. Dr. Changsheng Chen

School for Marine Science and Technology, University of Massachusetts Dartmouth, Dartmouth, MA, USA

Prof. Dr. Yu Zhang

College of Oceanography and Ecological Science, Shanghai Ocean University, Shanghai, China

---

### Deadline for manuscript submissions

5 September 2026



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/255348](https://mdpi.com/si/255348)

*Journal of Marine Science and  
Engineering*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[jmse@mdpi.com](mailto:jmse@mdpi.com)

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

[jmse](https://jmse)





# Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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

---

### Author Benefits

#### 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)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).