

## Special Issue

# Sustainable Development and Utilization of Offshore Wave and Tidal Energy

### Message from the Guest Editor

Wind power, solar photovoltaic power and modern bioenergy have gained substantial attention and traction as sustainable alternatives to traditional fossil-fuel-based energy sources. However, offshore wave and tidal energy have gained little attention in comparison. This Special Issue therefore aims at improving this situation. One area of focus is the technological advancements in wave and tidal energy conversion devices. The performance of various types of wave energy converters (WECs) is evaluated under different operating conditions. Similarly, the design and optimization of different types of tidal turbines are extensively studied to maximize power generation and minimize costs. Another key aspect addressed in this Special Issue is the environmental impact assessment of offshore wave and tidal energy projects, including the potential effects on marine habitats and marine biology.

---

### Guest Editor

Prof. Dr. Jan Emblemsvåg

Department of Ocean Operations and Civil Engineering, Norwegian University of Science and Technology, Ålesund, Norway

---

### Deadline for manuscript submissions

closed (5 March 2024)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/176505](https://mdpi.com/si/176505)

*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://mdpi.com/journal/)





# 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

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.

---

### 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 15.6 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).