

## Special Issue

# New Challenges in Marine Aquaculture Research

### Message from the Guest Editors

Scientific research was greatly challenged by the COVID-19 pandemic, which pressured research institutes to challenge themselves to give a quick answer to the worldwide humanitarian urgent situation. This unpredictable situation triggered a global energy and food crisis, which elevated the calls to urgently invest in food systems to ensure secure, affordable, healthy and nutritious food for a growing population. Aquatic products are increasingly recognized as key players in these food systems, representing in 2020 more than 60 percent higher than the average in the 1990s, largely due to increasing aquaculture production. Despite significant progresses in marine aquaculture industry, researchers still face great challenges concerning species diversification, animal growth efficiency, climate changes, alternative sources to fishmeal and oil, safeguard of natural resources and reduction of the environmental footprint. Therefore, marine aquaculture research is vital and requires an integrated approach to develop and strengthen the aquaculture sector to be able to follow the increasing global demand for aquatic foods.

### Guest Editors

Dr. Ana Catarina Matias

Institute for the Ocean and Atmosphere (IPMA), Aquaculture Research Station (EPPO), 8700-194 Olhão, Portugal

Dr. Carlos Andrade

MARE—Marine and Environmental Sciences Centre/ARNET—Aquatic Research Network, Agência Regional para o Desenvolvimento da Investigação Tecnologia e Inovação (ARDITI), Caminho da Penteadá Edif Madeira Tecnopolo, 9020-105 Funchal, Portugal

### Deadline for manuscript submissions

closed (30 June 2024)



## Journal of Marine Science and Engineering

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/130630](https://mdpi.com/si/130630)

*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/jmse](https://mdpi.com/journal/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

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).