

## Special Issue

# Modeling the Transport of Pollutants and Tracers in the Ocean

### Message from the Guest Editor

The numerical modelling of the transport of pollutants in the marine environment has been attracting attention for many years. This interest has increased in recent years as regarding radioactive pollutants after the 2011 accident in the Fukushima Daiichi nuclear power plant, and after the planned release of contaminated stored water from Fukushima into the Pacific Ocean. Reliable models are required to predict the fate of contaminants from planned releases in the marine environment, in general, but also for the assessment of the aftermath of accidental releases of any pollutant. In addition, modelling the transport of tracers is a useful tool in oceanography, applied to tracing water currents and water masses. We expect to publish high-quality papers on the following topics:

- modelling techniques
- rapid response models for emergencies
- description of water/sediment interactions
- modelling tracers and radiotracers as a tool for oceanography
- model application cases

---

### Guest Editor

Dr. Raul Perianez

Departamento de Física Aplicada I, ETSIA, Universidad de Sevilla, 41013 Sevilla, Spain

---

### Deadline for manuscript submissions

closed (5 November 2023)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/141465](https://mdpi.com/si/141465)

*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).