

## Special Issue

# Advances in Coastal Hydrodynamics and Water Quality Modeling

### Message from the Guest Editors

Dear colleagues, The growth of population and urbanization in coastal areas has led to a growing amount of liquid and solid waste. The inadequate disposal of these pollutants in water bodies can significantly jeopardize the coastal environment and ecology; thus, a clear understanding of the hydrodynamics and water quality in coastal environments is important. Coastal hydrodynamics and water quality has been a topic of significant research interest, and significant advances have been achieved. However, further investigations are needed to improve modeling accuracy and efficiency, and to develop new candidate modeling tools. This Special Issue welcomes review articles, original research, and case studies with respect to the modeling of coastal hydrodynamics and water quality and related topics. Any other types of works (e.g., experiments, theoretical analyses, and field observations) that can provide contributions to improve the practice of modeling hydrodynamics and water quality are also welcome.

---

### Guest Editors

Dr. Xiaohui Yan

Department of Civil Engineering, University of Ottawa, 161 Louis Pasteur, Ottawa, ON K1N 6N5, Canada

Prof. Dr. Majid Mohammadian

Department of Civil Engineering, University of Ottawa, 161 Louis Pasteur, A114, Ottawa, ON K1N 6N5, Canada

---

### Deadline for manuscript submissions

closed (20 June 2022)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/73069](https://mdpi.com/si/73069)

*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

*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).