

Special Issue

Linking Sedimentary and Erosive Processes with Morphodynamics in Coastal Zones

Message from the Guest Editor

This Special Issue explores the complex relationships between sedimentary and erosive processes, as well as their role in shaping coastal morphodynamics. These coastal systems, characterized by wave-dominated conditions and varying tidal influences, are particularly sensitive to episodic storm events, sea-level change, and anthropogenic modifications such as coastal engineering structures and sediment management interventions. We invite original research articles and reviews that advance understanding of nearshore and coastal sediment dynamics, erosion mechanisms, and morphological evolution. We welcome studies addressing sediment budgets, shoreline change, dune evolution, and coastal protection strategies. Topics of interest include, but are not limited to, the following:

- Sediment transport and erosion in coastal zones;
- Shoreline and nearshore morphodynamics;
- Impacts of storms, wave climate, and sea-level rise;
- Anthropogenic influences on sediment flux and morphology;
- Monitoring techniques and remote sensing of coastal changes;
- Process-based and numerical modeling of sedimentary dynamics;
- Coastal management and adaptation strategies in low-energy environments.

Guest Editor

Dr. Donatas Pupienis

Institute of Geosciences, Faculty of Chemistry and Geosciences, Vilnius University, Ciurlionio Str. 21/27, 03101 Vilnius, Lithuania

Deadline for manuscript submissions

15 January 2026



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/248779

*Journal of Marine Science and
Engineering*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

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).