

Special Issue

Physical Drivers and Anthropogenic Pressures Shaping Coastal Water Quality

Message from the Guest Editors

Coastal water quality is shaped by a complex interplay between physical circulation processes and diverse anthropogenic pressures acting across multiple spatial and temporal scales. In semi-enclosed and highly dynamic coastal systems, variations in circulation patterns, stratification, residence times, and exchange with the open sea strongly modulate the transport, dilution, and accumulation of substances affecting ecological status. This Special Issue aims to advance understanding of the physical drivers and anthropogenic pressures shaping coastal water quality, with a particular emphasis on integrative approaches that link observations, numerical modeling, and system-level analyses. We invite studies that examine how hydrodynamic variability, extreme events, and human activities influence coastal water quality indicators, including pressures associated with port activities, maritime transport, ballast water exchange, microplastic contamination, and invasive species pathways, without restricting submissions to climate attribution alone. Climate-related variability and extreme events are welcome where supported by data and process-based analysis.

Guest Editors

Dr. Morena Galešić Divić

Prof. Dr. Darko Koračin

Prof. Dr. Merica Slišković

Dr. Marin Vojković

Deadline for manuscript submissions

10 July 2026



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/266721

*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/
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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

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