

Special Issue

Effect, Exposure, and Risk of Macro-, Micro-, and Nanoplastics in the Ocean

Message from the Guest Editors

The presence of plastic in the marine environment is ubiquitous, but in situ concentrations, effects, and risks of macro-, micro-, and nanoplastics are still not well understood. Plastic comes in many forms with a myriad of shapes, sizes, densities, and weathering states. The lack of harmonized sampling strategies and sample processing protocols hampers the comparability of observational macro-, micro-, and nanoplastic studies and concentrations. Furthermore, ecotoxicity studies often focus on single species experiments; to date, only a limited insight is available for the population or community-level effects of plastic particles. In most cases, the laboratory settings in which the experiments are performed cannot be considered environmentally relevant. The lack of experimental work using realistic particles or fibers and the lack of knowledge on ecosystem impacts present a significant challenge in providing future directions for reliable risk assessments and effective plastic mitigation policies.

Guest Editors

Dr. Gert Everaert

Research Unit Ocean and Human Health, Flanders Marine Institute, Wandelaarkaai 7, B-8400 Ostend, Belgium

Dr. Ana I. Catarino

Flemish Marine Institute (VLIZ), Wandelaarkaai 7, 8400 Oostende, Belgium

Deadline for manuscript submissions

closed (30 September 2022)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/80139

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).