

Special Issue

Phytoplankton Dynamics and Biogeochemistry of Marine Ecosystems

Message from the Guest Editor

The ocean plays an important role in the formation of the planet's climate due to the functioning of the biological carbon pump (BCP), which is based on the primary production of the ecosystem. The composition of phytoplankton and its growth rate determines the type and intensity of the functioning of the BCP. The growth rate of phytoplankton depends on abiotic factors, among which the nutrient concentration is fundamental. Thus, there is a close relationship between phytoplankton and ocean biogeochemistry, and this relationship manifests itself both in seasonal dynamics and in long-term trends. It is obvious that without understanding the relationship between phytoplankton dynamics and ocean biogeochemistry, it is impossible to predict future climate change. This SI is devoted to the important topic "Phytoplankton dynamics and biogeochemistry of marine ecosystems" and we invite researchers to post their original or review articles in it.

Guest Editor

Dr. Vladimir Silkin

Shirshov Institute of Oceanology, Russian Academy of Sciences,
Southern Branch, Krasnodar Region, Gelendzik, Russia

Deadline for manuscript submissions

closed (31 October 2023)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/138246

*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





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).