Special Issue

Sustainable Concrete in the Marine Environment

Message from the Guest Editor

Marine structures must be strong enough to withstand forces of the sea and marine vessels, as well as the aggressive environments. The concrete needs to be designed to protect the marine structure from excessive wave action and provide sufficient corrosion protection.

Good resistance against harsh exposures can be obtained by selection of new materials and specifications without increasing the cost of concrete production and their maintenance during use. In addition, conventional concrete materials, including OPC, crushed rock/limestone aggregates, are carbon and energy intensive materials.

Since the ingredients of conventional concrete do not work well in the marine/aggressive environment, the aim of this Special Issue is to cover following topics:

- Innovative concrete specification for the marine environment:
- Material selection for durable concrete for the marine environment;
- Cost-competitive green concrete for the marine environment:
- Sustainability assessment of concrete selection for the marine environment.

Assoc. Prof. Wahidul Biswas

Guest Editor

Prof. Dr. Wahidul K. Biswas

School of Civil and Mechanical Engineering, Curtin University, Bentley, Perth, WA 6102, Australia

Deadline for manuscript submissions

closed (5 December 2020)



Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/29272

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





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).

