

Special Issue

Optimal Design of Ship Energy Systems

Message from the Guest Editor

Researchers have long been interested in marine energy systems, including alternative fuels, developments in emerging technologies, artificial intelligence methods, big data analytics, and advances in autonomy/automation of marine systems. After the COVID-19 pandemic, the research and development on renewable energies and clean fuels became of great importance. Ship design aims to disrupt the current dependency on traditional fuel sources and enable the transition towards net-zero. The shipbuilding industry is exploring advancements in alternative fuel sources (hydrogen and ammonia) and full electrification by means of batteries, developing emerging technologies to improve vessel efficiency, and integrating onboard energy system management devices. This Special Issue focuses on the intersection between energy systems' design, modeling, and optimization to address climate change prevention and mitigation. We invite all interested authors to submit novel/original studies and reviews that advance the scientific/technical understanding of the topics addressed.

Guest Editor

Dr. Mousa Marzband

Department of Mathematics, Physics and Electrical Engineering,
Northumbria University, Newcastle-upon-Tyne, UK

Deadline for manuscript submissions

closed (1 October 2023)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.6



mdpi.com/si/170705

*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 5.6



[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 - Q1 (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).