

Special Issue

Sustainability Practices and Failure Analysis of Offshore Pipelines

Message from the Guest Editors

Offshore pipelines are critical components of global energy infrastructure, yet their safe and sustainable operation faces mounting challenges. This Special Issue seeks contributions that advance knowledge on sustainability practices and failure analysis of offshore pipelines across the full lifecycle, from design and operation to inspection, maintenance, and decommissioning. Topics of interest include non-destructive testing (NDT), structural health monitoring, and reliability-based approaches for fault detection and prevention. We also seek studies on material degradation mechanisms; the role of advanced materials and coatings; and innovative inspection and maintenance technologies. Papers integrating sustainability principles, reducing carbon footprint, extending asset life, or supporting environmentally responsible decommissioning, are particularly encouraged. In addition, we welcome contributions that address probability of detection (PoD) and probability of rejection (PoR) analyses, sizing accuracy studies, and reliability frameworks applied to offshore pipeline inspection.

Guest Editors

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Deadline for manuscript submissions

closed (10 March 2026)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/254610

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Engineering*
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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

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