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.

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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

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