Special Issue

Design, Inspection and Repair of Oil and Gas Pipeline

Message from the Guest Editors

This Special Issue, entitled “Design, Inspection and Repair of Oil and Gas Pipeline”, seeks to collect and present cutting-edge research and comprehensive review articles addressing recent innovations, challenges, and practical solutions in the field. We welcome contributions related to, but not limited to, the following topics:

- Advanced design methodologies and structural integrity assessments;
- Integrity management systems and risk-based inspection frameworks;
- Non-destructive testing (NDT) technologies and smart inspection tools;
- Real-time condition monitoring and data-driven integrity evaluation;
- Corrosion control, prevention, and management strategies;
- Rehabilitation techniques including composite repair systems and in-service welding;
- Performance of pipelines under extreme conditions and climate adaptability;
- Applications of artificial intelligence and machine learning in integrity forecasting;
- Environmental impact assessments and sustainability considerations in pipeline projects;
- Case studies on failure analysis, maintenance optimization, and lifecycle extension.

Guest Editors

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Deadline for manuscript submissions

31 May 2026

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/255640

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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