

Special Issue

Advanced Approaches in Drilling Processes and Enhanced Oil Recovery

Message from the Guest Editor

This Special Issue aims to bring together cutting-edge research that advances both drilling processes and EOR technologies, highlighting the synergy between these two critical areas in petroleum engineering. It will cover breakthroughs in experimental investigations, numerical modeling, field applications, and the integration of smart technologies such as AI and machine learning. We invite researchers to submit original articles and reviews on topics including, but not limited to, the following:

- Smart Drilling Systems and Automation;
- Drilling Fluids and Wellbore Stability;
- Horizontal and Multilateral Drilling Techniques;
- Real-Time Monitoring and Optimization in Drilling;
- Smart Water Flooding;
- Nanotechnology Applications in EOR;
- CO₂-based EOR Methods;
- Microbial and Chemical EOR;
- Low-Salinity and Hybrid EOR Techniques;
- EOR in Shale and Tight Formations;
- AI and Data-Driven Approaches in Drilling and EOR;
- Environmentally Friendly and Sustainable EOR Methods.

Guest Editor

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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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