



Advanced Research and Techniques on Enhanced Oil Recovery Processes

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Message from the Guest Editors

Over a decade, there have been continuous R&D activities executed to improve EOR processes and techniques applicable to mature oil reserves. Understanding the priceless opportunities and key innovations in these fundamental techniques would greatly support the decision-making process for such applications. This includes analyzing operational, technical, economic, and environmental aspects of the challenges to identify tailored strategies that may be case specific.

This Special Issue aims to collate experimental/numerical/field scale investigations with novel solutions and review papers with state-of-the-art findings that can deliver a significant contribution to the EOR community. Potential focus areas are summarized as the following:

- Technical challenges
- Operational challenges
- Environmental impacts/benefits
- Economic factors
- High viscosity crude
- Low salinity/smart water flooding
- Carbon capture and utilization
- EOR and reservoir characterization
- High salinities and high temperatures
- Extreme reservoir heterogeneity with fractures
- Chemical EOR and usage of advanced materials
- Hybrid and novel methods for enhanced heavy oil recovery



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Message from the Editor-in-Chief

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