

Special Issue

Flow Mechanisms and Enhanced Oil Recovery

Message from the Guest Editors

The Special Issue will highlight experimental and numerical studies, focusing on optimizing recovery methods and understanding the intricate flow dynamics in complex reservoir environments. Authors are invited to share their work on the characterization of reservoir systems, designing and implementing EOR strategies, and integrating state-of-the-art technologies in field applications. Modeling and simulation of fluid dynamics and EOR processes will also play a central role in this issue, offering valuable insights into optimizing field operations. Topics include, but are not limited to:

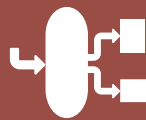
- Multiphase flow mechanisms in porous media;
- Enhanced oil recovery techniques (gas injection, chemical flooding, and thermal methods);
- Reservoir heterogeneity and its influence on flow and recovery;
- Simulation and modeling of oil and gas flow in complex reservoirs;
- Water-alternating-gas (WAG) and its optimization;
- Field applications and case studies of successful EOR implementation;
- Interaction between fluids and formation rocks under EOR processes.

Guest Editors

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Dr. Hailong Zhao
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Deadline for manuscript submissions

closed (28 February 2026)



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