

Special Issue

Advances in Reservoir Development and Enhanced Oil Recovery Techniques

Message from the Guest Editors

The development of oil and gas reservoirs and the enhancement of oil recovery techniques are critical for maximizing the extraction of hydrocarbons, especially as conventional reservoirs decline and energy demands continue to rise. Reservoir development, combined with Enhanced Oil Recovery (EOR) methods such as chemical, thermal, and gas injection, plays a vital role in improving the efficiency of hydrocarbon extraction from mature and unconventional reservoirs. This Special Issue on “Advances in Reservoir Development and Enhanced Oil Recovery Techniques” seeks high-quality works focusing on gathering cutting-edge research and development in the fields of reservoir development and EOR techniques, highlighting innovations, field applications, and data-driven approaches that are transforming the oil and gas industry. Topics include, but are not limited to:

- Advanced reservoir characterization techniques and modeling;
- Innovations in chemical, thermal, gas, and microbial EOR methods;
- Machine learning and AI-driven approaches in reservoir management and EOR optimization;
- New materials and chemicals used in EOR processes.

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