

Special Issue

Advances in Enhancing Unconventional Oil/Gas Recovery, 3rd Edition

Message from the Guest Editors

In recent years, unconventional reservoirs (tight gas/oil reservoirs, coalbed methane, shale gas/oil reservoirs, etc.) have attracted massive attention and have played a significant role in satisfying growing energy demands. This Special Issue is dedicated to attracting high-quality original research and reviews, focusing on advances in enhancing unconventional oil/gas recovery. Potential topics include, but are not limited to, the following:

- Enrichment and migration mechanisms;
- Fundamental studies of coupled transport, reactions, and/or mechanics;
- Petrophysical properties in unconventional reservoirs;
- New advances in hydraulic fracturing;
- Multiscale and multiphysics modeling;
- Fluid injection (gas, water, surfactant, microemulsion, etc.);
- Novel methods for enhanced hydrocarbon recovery (CO₂-EOR, CCUS, chemical, microbial);
- Molecular simulation on fluid adsorption characteristics;
- Machine learning and data science applications for unlocking unconventional reservoirs;
- Practices and lessons from field applications.

Guest Editors

Dr. Tao Zhang

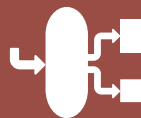
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Deadline for manuscript submissions

15 April 2026



Processes

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