

Special Issue

Advances in Enhancing Unconventional Oil/Gas Recovery

Message from the Guest Editors

To bridge the current knowledge gap, this Special Issue is dedicated to attracting high-quality original research and reviews, focusing on advances in enhancing unconventional oil/gas recovery. The new progress, including laboratory measurements and modeling, field case studies, reservoir simulation studies, mathematical modeling, or a combination of these, are all welcome in this Special Issue. Potential topics include, but are not limited to, the following:

- Enrichment and migration mechanisms
- Fundamental studies of coupled transport, reaction, 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

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Deadline for manuscript submissions

closed (15 May 2024)



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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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