

## Special Issue

# Advances in Hydraulic Fracturing Technology for Unconventional Reservoirs

### Message from the Guest Editors

Over the past two decades, the increased use of hydraulic fracturing technology has led to a significant increase in the production of shale oil and natural gas in many parts of the world. This increase in hydrocarbon production has resulted in a reduction in the use of coal for energy generation.

This Special Issue aims to present and disseminate the latest advancements in hydraulic fracturing technology for unconventional oil and gas reservoirs. Topics of interest for publication include, but are not limited to:

- New advances in analytical and numerical solutions to improve the accuracy of HF treatment designs.
- Well test analysis.
- Optimal re-frac operations.
- Fishbone drilling.
- Fracture-driven interaction.
- Machine learning & AI techniques for optimal freshwater use management and recycling the frac-fluid.
- Advanced research on characterizing flow back fluids for optimal treatment/disposal to reduce hazards and risks.

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### Guest Editors

Dr. Hadi Jabbari

Department of Petroleum Engineering, University of North Dakota, Grand Forks, ND 58202, USA

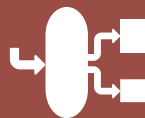
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Petroleum Engineering, University of Wyoming, Laramie, WY 82071, USA

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### Deadline for manuscript submissions

closed (30 June 2025)



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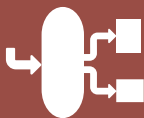


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