

Special Issue

Petroleum and Natural Gas Engineering: 2nd Edition

Message from the Guest Editors

This Special Issue aims to highlight recent advancements and innovations in the field of petroleum and natural gas engineering, with a particular focus on hydraulic fracturing and enhanced oil recovery (EOR) techniques. These methods are crucial for optimizing extraction processes and improving overall production efficiency. We also seek to address the latest developments in drilling technologies, which play a supporting role in the exploration and extraction of petroleum and natural gas resources. Topics of interest include the following:

- Innovations in hydraulic fracturing fluids and proppants;
- Modeling and simulation of fracture propagation;
- Environmental impacts and mitigation strategies of hydraulic fracturing;
- Real-time monitoring and adaptive fracturing techniques;
- Chemical, thermal, and gas injection EOR methods;
- Case studies of successful EOR implementations;
- Integration of EOR with reservoir management;
- Advances in drilling technologies and equipment;
- Drilling optimization and cost reduction strategies;
- Wellbore stability and control;
- New materials and techniques for drilling in challenging environments.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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