

## Special Issue

# Advances in the Development of Unconventional Oil and Gas Resources

### Message from the Guest Editors

The use of unconventional oil and gas resources has increased in natural gas and oil production worldwide in recent decades. The science and technology involved in the development of unconventional oil and gas resources not only play indispensable roles in petroleum engineering but are also crucial for various areas such as geological carbon dioxide capture, utilization and storage (CCUS), hydrology, geothermal energy production, and so on. Potential topics include, but are not limited to, the following:

- New methods to test and characterize properties of unconventional oil and gas reservoirs;
- Rock mechanics and hydraulic fracturing of unconventional oil and gas reservoirs;
- Effective techniques to enhance recovery of unconventional oil and gas reservoirs;
- Artificial intelligence in unconventional oil and gas development;
- New science and technology involve in unconventional oil and gas development;
- Developmental technologies for new energy resources (e.g., hydrogen energy and gas hydrate);
- Carbon-reducing technologies (e.g., CCUS) in unconventional oil and gas development.

### Guest Editors

Prof. Dr. Gang Lei

Dr. Weiwei Zhu

Dr. Zhenhua Wei

Dr. Liangliang Zhang

### Deadline for manuscript submissions

closed (5 April 2024)



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### Message from the Editor-in-Chief

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### Editor-in-Chief

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