



## Challenges and Opportunities of Oil and Gas Engineering in a Low-Carbon and Intelligent Future

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to present and disseminate the most recent advances related to the challenges and opportunities of oil and gas engineering in the context of a low-carbon and intelligent future.

Topics of interest for publication include, but are not limited to, the following:

- Integration of renewable energy sources/techniques in oil and gas industry
- Advanced materials for drilling, fracturing and enhanced oil recovery
- Smart drilling, fracturing and production based on artificial intelligence
- Applications of digital twin technology, digitalization and data analytics
- Carbon capture, utilization, and storage (CCUS) technologies
- CO<sub>2</sub> storage monitoring and long-term simulations

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