Special Issue

Advances in Oil and Gas Drilling Technologies

Message from the Guest Editors

The exploration of deep, unconventional oil and gas resources has become the main arena in the current energy industry, which has promoted the rapid improvement and development of drilling technology. Extensive research on the integrated automatic drilling rig, drilling tools, well logging, measurement while drilling, drilling and completion fluid, and enhanced recovery strategy et al, sheds light on addressing the problem that refers to drilling in extreme conditions and drives another booming fossil fuel era. This Special Issue aims to present the most recent advances related to the oil and gas drilling technologies of all types of equipment, tools, materials, theories, software, and methods. Topics of interest for publication include, but are not limited to:

- Drilling rig and tools;
- Drilling and completion fluid;
- Geomechanics in drilling;
- Drilling hydraulics;
- Nanomaterial application in oil and gas industry;
- Well logging, testing and evaluation;
- Well completion methods and materials;
- Application of artificial intelligence, machine learning and data analytics in oil and gas drilling.

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About the Journal

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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