

## Special Issue

# Recent Advances in Petroleum Drilling Engineering

### Message from the Guest Editors

As the oil industry moves into more technically and economically challenging environments, companies have increasingly come under pressure to stretch the technology and to improve drilling performance. The quest for technologies to increase drilling efficiency and reduce the drilling cost has resulted in many new developments and original contributions to the state-of-the-art in drilling engineering over the past decade. This Special Issue aims to collect original research or review articles on recent advances in every aspect of oil and gas well drilling engineering. In particular, papers related to drilling automation, automated real-time drilling modeling and data analysis, new developments in horizontal, extended reach and multilateral drilling, novel drilling fluids, advancement in drilling bit technologies, developments in drilling mechanics and tubular design, digital well planning, well construction and life cycle well integrity, advances in drilling hydraulics, UBD and MPD, and well control technologies will be considered.

### Guest Editors

Prof. Dr. Ergun Kuru

School of Mining and Petroleum Engineering, University of Alberta, 6-287 Donadeo Innovation Centre For Engineering, 9211-116 St, Edmonton, AB T6G 2H5, Canada

Dr. Majid Bizhani

Research scientist, Geological Survey of Canada, Calgary, AB, Canada

### Deadline for manuscript submissions

closed (1 March 2021)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/52684](https://mdpi.com/si/52684)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/journal/  
energies](https://mdpi.com/journal/energies)



## 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.

---

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Control and Optimization)