

Special Issue

Challenges and Research Trends of Unconventional Oil and Gas

Message from the Guest Editor

Unconventional oil and gas played important roles in the energy industry for many decades. Due to the low-permeability characteristics of unconventional reservoirs, challenges related to the development of unconventional oil and gas have appeared in various academic and technical domains such as geology, geophysics, geochemistry, geomechanics, mechanics of string and tubing, and reservoir stimulation, etc. Many research achievements have been obtained in solving the aforementioned problems as technologies are developed accordingly. Still, there are many other problems existing in the current industrial and academic domains related to the development of unconventional oil and gas. This Special Issue provides a platform for the exchange and exhibition of achievements related to unconventional oil and gas. The following topics are of major interests for this Special Issue: Geology and sweet spots; Hydraulic fracturing; Geophysics; Geomechanics; Geochemistry; Mechanics of string and tubing; Cases of best practice of various technical applications. Solutions and research results achieved by either experimental or numerical as well as analytical and empirical methods are welcome

Guest Editor

Prof. Dr. Xinpu Shen

School of Petroleum Engineering, China University of Petroleum (East China), Qingdao 266580, China

Deadline for manuscript submissions

closed (28 April 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/137450

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)