# Special Issue

# Advances in the Development of Geoenergy: 2nd Edition

### 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;
- 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 (10 July 2025)

**Energies**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 7.3**

mdpi.com/si/201485

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

mdpi.com/journal/energies

# Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)