

## Special Issue

# Development of Unconventional Oil and Gas Fields

### Message from the Guest Editors

Recent applications of advanced techniques and technologies have largely facilitated the efficacy of unconventional oil and gas development. This Special Issue will present the latest advances in this field. With this aim in mind, we are inviting investigators to submit relevant original research articles, case studies, and review articles. **Topics of particular interest include (but are not limited to):**

- Strategies for heavy oil and oil sand/tar sand development;
- Recent advances in in-situ combustion and thermal recovery;
- Effective exploitation of oil shale;
- Hydrogen energy production and utilization;
- Strategies for shale gas and shale oil reservoir development;
- Strategies for tight gas and tight oil reservoir development;
- Theories and techniques for the sustained exploitation of gas hydrates;
- Hydraulic fracturing techniques in the development of unconventional resources;
- Experimental and numerical modeling techniques related to unconventional resource development;
- Machine learning techniques related to unconventional resources development.

---

### Guest Editors

Prof. Dr. Renbao Zhao

College of Petroleum Engineering, China University of Petroleum,  
Beijing 102249, China

Dr. Xuyang Guo

College of Petroleum Engineering, China University of Petroleum,  
Beijing 102249, China

---

### Deadline for manuscript submissions

closed (30 April 2024)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/119389](https://mdpi.com/si/119389)

*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)