

## Special Issue

# Oil and Gas Reservoirs: Seepage Mechanism, Productivity Prediction and Development Technology

### Message from the Guest Editors

We are pleased to invite you to submit papers to the journal *Energies* for a Special Issue that will be entirely devoted to “Oil and Gas Reservoirs: Seepage Mechanism, Productivity Prediction and Development Technology”. The issue puts emphasis on current challenges in the development of oil and gas reservoirs, particularly for the tight reservoirs, shale oil/gas, and coalbed methane. At the same time, the utilization of advanced mathematic algorithm towards oil/gas development is also welcomed. Potential topics of interest include, but are not limited to:

- Characterization of nanopore morphology in shale/coal samples
- Original multi-phase fluid occurrence state in oil/gas reservoirs
- Pore network modeling towards fluid flow in porous media
- Nanoconfined fluid phase behavior and fluid flow capacity
- Novel numerical simulation method upon complex development modes
- Fracture propagation characterization and long-term conductivity calculation
- Advanced production data analysis methods based on multi-phase flow
- Machine learning and data science applied for the oil/gas development

---

### Guest Editors

Dr. Juntai Shi

State Key Laboratory of Petroleum Resources and Prospecting, China  
University of Petroleum(Beijing), Beijing 102249, China

Dr. Zheng Sun

State Key Laboratory of Coal Resources and Safe Mining, China  
University of Mining and Technology, Xuzhou 221116, China

---

### Deadline for manuscript submissions

closed (24 February 2023)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/117073](https://mdpi.com/si/117073)

*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)