

## Special Issue

# Failure and Multiphysical Fields in Geo-Energy

### Message from the Guest Editor

Failures (e.g., instability, damage, and fracture) and multiphysical fields coupling (thermal, hydro, mechanical, and chemical fields) problems exist in the in situ occurrence and exploitation process of geo-energy, and they have become the key factors affecting the disasters in the exploitation process. Without understanding of the involved mechanisms, it is challenging to exploit energy safely and efficiently. The goal of this Special Issue is to review the novel theories and methods concerning failure and multiphysical fields in geo-energy problems including new applications in related fields. The aim is to define the state-of-the-art of the subject and the recently proposed methods, as well as future directions of research in this area. Another goal—which we hope will be beneficial for the community of failure and multiphysical fields—is to connect participants so that international collaborations can take place for advanced research and study of relevant applications.

### Guest Editor

Dr. Yongliang Wang

School of Mechanics and Civil Engineering, China University of Mining and Technology, Beijing 100083, China

### Deadline for manuscript submissions

closed (28 February 2025)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/116990](https://mdpi.com/si/116990)

*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)