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

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Deadline for manuscript submissions

28 February 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.2

mdpi.com/si/116990

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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.

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