Special Issue

Fracture Mechanics and Energy Geo-Structures

Message from the Guest Editor

This Special Issue aims to present and disseminate the most recent advances related to the theory, experiments, modelling, and application of fracture mechanics to unconventional oil and gas development. Topics of interest for publication include, but are not limited to:

- Multiscale geo-structures identification.
- Multiscale rock fracture behaviors.
- Optimization of hydraulic fracturing design in oil/gas/geothermal reservoirs.
- New apparatus and methods for to observe and capture micro-cracks.
- Novel laboratory testing approaches or in-situ experiments.
- New theory to describe the fracture progress under coupled thermal–hydrological–mechanical–chemical conditions.
- Constitutive equation and parameter identification involved in fracture models.
- Machine learning and data-driven techniques in rock damage and fracture.
- Fatigue-induced rock fracture predication and expression.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/121063

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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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