# **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**

Prof. Dr. Yu Wang

Department of Civil Engineering, School of Civil and Resource Engineering, University of Science and Technology Beijing, Beijing 100083, China

### Deadline for manuscript submissions

closed (20 December 2022)



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Energies Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +4161 683 77 34 energies@mdpi.com

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## Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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