Special Issue

New Advances in Rock Mechanics and Underground Thermal Energy Storage

Message from the Guest Editors

We are inviting submissions to a Special Issue of *Energies* on the subject area of "New Advances in Rock Mechanics and Underground Thermal Energy Storage". Underground thermal energy storage is a widely used energy storage technology, which makes use of the ground as a storage medium. Now more than ever, efficient and inexpensive energy storage systems are a crucial part of modern sustainable energy strategy for increasing the share of renewable energy and improving energy resource efficiency. The associated rock mechanical challenges related to the design and operation of thermal energy systems built in rock masses influence their long-term performance and profitability. **Keywords:**

- Rock mechanics
- Underground thermal energy storage (UTES)
- Numerical modeling
- Thermal analysis
- Structural analysis
- Fracture mechanics
- Rock mass characterization
- Storage systems
- Experimental and demonstration sites
- Monitoring
- Field testing
- Geothermal energy

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Deadline for manuscript submissions

closed (16 May 2023)

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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.

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