

Special Issue

Rock Salt for Underground Energy Storage: Multiscale and Multiphysics Behavior

Message from the Guest Editors

This Special Issue aims to highlight the state-of-the-art findings in thermo-hydro-mechanical-chemical (THMC) coupling behaviors of salt rocks from grain-scale to microscopic scale, and to address the critical issues in upscaling the microscopic behaviors from the grain scale to the macroscopic scale for engineering applications. Original theoretical research articles, review articles, and case studies are welcomed. Potential topics include but are not limited to the following:

- The experimental studies about the damage evolution of rock salt from nano/micro to macro scale;
- Finite element, finite difference, discrete element, and coupled numeric modeling approaches;
- Multiphysics and multiscale constitutive models of rock salt;
- Quantitative descriptions of microscopic topological structures;
- Case studies for energy and resource storage hosted by salt rocks, including successful applications and accidents.

Guest Editors

Prof. Dr. Jie Chen

State Key Lab Coal Mine Disaster Dynam & Controls, Chongqing University, Chongqing 400030, China

Dr. Guowen Xu

Department of Civil and Environmental Engineering, Colorado School of Mines, Golden, CO 80401, USA

Deadline for manuscript submissions

closed (31 August 2021)



Energies

an Open Access Journal
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Impact Factor 3.2
CiteScore 7.3



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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