Special Issue

The Role of Numerical Modelling in the Development of a Geologic Repository for Radioactive Waste

Message from the Guest Editor

Nuclear reactors have been providing baseload energy for many decades. Moreover, it is increasingly recognised that nuclear energy can play an important role in the transition to a low-carbon energy mix. It is therefore essential to find a responsible solution for the long-term isolation of radioactive wastes generated from both past and future nuclear energy production.

Numerical modelling is a central tool in the development of a geologic repository for radioactive waste. Modelling helps to design laboratory and field experiments and analyse site characterisation data. The safety of the repository is evaluated by means of modelling, both for design conditions and unlikely disruptive event scenarios. Most importantly, the process of developing models supports and critically assesses the conceptualisation of the complex repository system and the interactions among its components.

We welcome articles that discuss the purposes, conceptualisation, development, results, and interpretation of numerical models in the context of radioactive waste disposal.

Guest Editor

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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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