

Special Issue

Hydraulic Fracturing and Reservoir Simulation for Enhanced Geothermal Systems

Message from the Guest Editors

Enhanced Geothermal Systems (EGS) are a primary approach to developing these deep resources. In EGS, hydraulic fracturing is employed to construct fracture networks, while reservoir simulation provides forecasts of fluid flow and heat transfer, thereby supporting the long-term operation of geothermal projects. For this Special Issue on “Hydraulic Fracturing and Reservoir Simulation for Enhanced Geothermal Systems”, we invite high-quality contributions that highlight the latest advances in geothermal engineering, including drilling technology, hydraulic fracturing, reservoir simulation, and geothermal reservoir management. Topics of interest include, but are not limited to, the following:

- Mechanisms of hydraulic, thermal, and chemical stimulation in EGS;
- Advanced stimulation technologies for EGS;
- Initiation and propagation of hydraulic fractures in fractured reservoirs;
- Thermal–hydro–mechanical–chemical (THMC) simulations for geothermal reservoirs;
- Uncertainty quantification in geothermal production;
- Fracture characterization and inversion methods;
- Applications of artificial intelligence in geothermal development and reservoir management.

Guest Editors

Dr. Guofeng Song

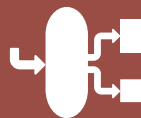
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