Special Issue

Microseismic Monitoring of Geothermal Systems

Message from the Guest Editor

Microseismic monitoring is one of the most practical and effective means to collect both wide and 3D information of dynamic behaviour of geothermal reservoirs associated with various kinds of operation, including production, injection, and build-up. Microseismic monitoring of geothermal reservoirs has a long history, and activities, spatio-temporal distribution of hypocenters, and magnitude have been mainly used for estimation of location and motion of fracture system, in which geothermal energy is stored. Recent progress in hardware and processing techniques in seismology enables us to acquire more reliable and detailed information of the reservoirs. Furthermore, induced seismicity with large magnitude in creation and production of/from enhanced geothermal systems (EGS) is considered one of the largest environmental burden in utilization of geothermal energy. It is believed, therefore, that sharing knowledge through this SI will greatly contribute to better microseismic monitoring for stable and sustainable green geothermal energies and reduction of the risks of damaging earthquakes in the future.

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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