



Investigation of Heat Transfer Performance and Sustainability

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Message from the Guest Editors

Dear Colleagues,

The convective heat transfer mechanism and main control factors between low-temperature heat exchange working fluid and high-temperature rock mass in reservoirs are the keys to geothermal development. Deep in situ rock mass is under three-dimensional high-stress and high-temperature conditions. The role of high-pressure water is involved in the geothermal development process, and its mechanical behavior and seepage heat transfer mechanism are extremely complex. Therefore, clarifying the high-temperature mechanical behavior of deep in situ rock mass and the coupling mechanism of seepage heat and mass transfer is the theoretical basis and prerequisite for realizing the safety and rational development of deep earth resources.

This Special Issue encourages submissions which will provide new insights into the development of deep geothermal energy, focusing on rock mechanics and heat/mass transfer behaviors in geothermal reservoirs. We actively encourage participation from researchers in the fields of deep resource exploration and evaluation, reservoir simulation technology, rock mechanics theory, and heat and mass transfer.





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Message from the Editor-in-Chief

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