

Special Issue on
**Geothermal Systems: Interdisciplinary
Approaches for an Effective Exploration**

CALL FOR PAPERS

Geothermal systems are often characterized by the interaction of complex non-linear physical processes. A multifaceted approach is key to understanding the dynamics driving fluid flow at depth. Accordingly, geothermal exploration is increasingly focusing on the extensive integration of multidisciplinary data from fluid-geochemistry to geophysics encompassing numerical methods and geological surveys. This increasingly combined approach is leading to a new and reliable exploration and assessment process, able to determine a significant risk reduction. Furthermore, production technology is constantly changing, and recent technological developments have significantly improved plant efficiency and performance, creating new targets for exploration and revised approaches to focus on them better.

The aim of this special issue is to gather contributions focusing on the interplay between different exploration approaches, reservoir characterization, and numerical and experimental models, implemented during all phases of geothermal exploration up to the definition of the exploitation strategy.

We welcome research and review papers dealing with the state of the art on extensive data integration in geothermal exploration, especially in light of the new opportunities associated with recent technological developments

Potential topics include but are not limited to the following:

- ▶ Geological, geophysical, and hydrogeochemical exploration techniques
- ▶ Geological, experimental, and reservoir modeling
- ▶ Fluid flow through fault zones
- ▶ Fluid inclusions and geothermal tracers
- ▶ Fluid-induced seismicity
- ▶ Resource assessment including both conventional and unconventional geothermal resources
- ▶ Supercritical fluids
- ▶ Environmental impact
- ▶ Changing exploration approaches related to the new advances in power production

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/geofluids/gsaee/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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