



## Basin Tectonic Analysis and Geoenergy Exploration

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### Message from the Guest Editors

The exploration and sustainable utilization of geoenergy (e.g., oil and gas resources) in basins have significant implications for the world. Recently, breakthroughs have been obtained in deep and ultradeep tight reservoirs, shale gas development, and geothermal resource exploration. Tectonic analysis is a basic geological process to determine basin origin and evolution, oil and gas accumulation, and hydrocarbon/geothermal resource exploration and development. This Special Issue aims to present and discuss findings and technologies related to basin tectonic analysis and geoenergy exploration.

In this Special Issue, contributions related to, but not limited to, the following topics are welcome:

1. Basin tectonic analysis using kinematics or geodynamics.
2. In situ stress prediction.
3. Structural interpretation and styles.
4. Natural fracture formation mechanisms and predictions.
5. Oil and gas reservoir analysis.
6. Basin–orogen coupling.
7. Numerical modelling for hydrocarbon development.
8. Geothermal resource exploration.
9. Other advanced research on basin tectonics and geoenergy exploration.





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