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Earth Stress and Subsurface Geoengineering

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Deadline for manuscript submissions:

closed (5 September 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to explore the multifaceted relationship between earth stress and subsurface geoengineering, thus providing a platform for researchers to present innovative research, methodologies, and specific case studies. By exploring this intersection, we aim to advance our understanding of how earth stress influences subsurface processes and how engineering activities impact regional tectonics. The contributions to this Special Issue will address key questions, including the characterization of regional tectonic stress fields, the assessment of energy and resource extraction-induced seismicity risks, and the development of innovative strategies for mitigating geological hazards in subsurface operations. Ultimately, the findings presented in this Special Issue will contribute to the development of understanding in both geoscience and engineering, with practical implications for sustainable subsurface utilization and risk management.

- tectonic stress
- subsurface geoengineering
- seismic hazard assessment
- reservoir-induced seismicity
- underground injection techniques
- subsurface stress redistribution.











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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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