



Advanced Studies in Structural Geology: The Role of Tectonics on Applied Geology Aspects

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Message from the Guest Editors

Tectonics is a crucial research field, holding a key-role in applied geology, as it provides qualitative and quantitative information, which is decisive in various types of studies. In particular, these studies are related to:

- **Geological Hazards:** Natural disasters are linked to tectonic processes; their most important outcome is the earthquakes, as well as other secondary effects such as volcanic eruptions, landslides, and tsunamis.
- **Groundwater Resources:** The active tectonics have important effects on aquifer creation and groundwater flow.
- **Geotechnical Engineering:** Tectonic activity impacts the rock and soil stability. Additionally, the importance of structural geology in slopes, foundations for buildings, and pavements have been recognized. However, the integration of structural geology mapping and theory in all stages of engineering projects remains a challenge.
- **Mineral and Energy Resources:** Tectonic studies are important as guides for economic geologists searching for fuels and ore deposits of metallic and nonmetallic resources.





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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 coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

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