



Observations and Modeling of Crustal Deformation and Fault Behavior

Guest Editor:

Dr. Hamiel Yariv

Geological Hazards Division,
Geological Survey of Israel,
Jerusalem 9692100, Israel

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Message from the Guest Editor

Dear Colleagues,

The manner in which crustal deformation and fault behavior is observed and modeled has rapidly changed over the last three decades. A growing body of evidence from small-scale laboratory experiments to large-scale geodetic, geological, and seismic observations reveals the complex behavior of active plate boundaries and the related crustal deformation. High-resolution datasets enable us to resolve the three-dimensional spatial and temporal characteristics of inter-, co- and post-seismic periods. These observations together with new modeling techniques allow for a better understanding of crustal deformation during the entire seismic cycle.

We welcome innovative and original contributions from observational and theoretical studies that explore key questions in the fields of crustal deformation and fault mechanics.





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Instituto de Geociencias, IGEO
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Ochoa 7, Edificio
Entrepabellones 7 y 8, 28040
Madrid, Spain

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.

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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Geosciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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