Special Issue

Metamorphism and Tectonic Evolution of Metamorphic Belts

Message from the Guest Editors

The study of metamorphism and the tectonic evolution of metamorphic belts provides critical insights into the dynamic processes shaping the Earth's crust (compression vs. extension). By analyzing metamorphic rocks and their formation conditions, geologists can reconstruct the history of plate movements, the nature of past environments at great depths and the mechanisms driving the Earth's tectonic activities. This knowledge is fundamental to our understanding of the planet's geological past, present and future. We call for research contributions studying these closely related processes of metamorphism and structural evolution of metamorphic belts produced either during plate convergence, nappe stacking and crustal thickening or plate divergence, crustal thinning and the exhumation of deep crustal rocks. As an example, we referred to the Himalayan Metamorphic Belt, The Alps, Dinnarides and Hellenides orogenic belts or the Franciscan complex in California.

- compression
- extension
- nappe stacking
- crustal exhumation
- orogeny
- subduction
- obduction
- metamorphism
- migmatites

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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.

Editor-in-Chief

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