Special Issue

Tectonic Evolution of Subduction Processes

Message from the Guest Editors

The study of convergent margins is increasingly aimed at understanding the geological phenomena activated in the crust and upper mantle. The rheological features of the plates involved, the role of inversion tectonics, the link between tectonics and sedimentation, the reaction of the geothermal gradients in the lithospheric mantle, the circulation of fluids at different depths, the transfer of material from/to the lower plate to/from the prism, the reactivity of the rocks subjected to high pressures, the underplating dynamics, and the role of time in subduction and exhumation processes are some of the issues we come across when we approach the study of an orogenic belt. The accessibility of information we have on the Phanerozoic belts allows us to reach a degree of knowledge of modern tectonics that can explain both the framework of Precambrian tectonics and the lithospheric processes occurring today. This Special Issue aims to collect original research and reviews that focus on the studies that address the aforementioned issues.

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Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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