Special Issue

Low- and Very-Low-Grade Metamorphism: From Minerals and Isotopic Characterization to Tectonic Implication

Message from the Guest Editors

Metamorphic rocks recording LT-blueschist and -greenschist conditions, together with rocks affected by late-orogenic fluid circulation, are still a challenging research topic because of a frequent lack of equilibrium of metamorphic reactions, small-scale minerals, and frequent mineralogical/geochemical inheritance from protoliths. Thanks to advances in methods based on mineral chemistry (new geothermometers and geobarometers), isotopic dating, and fluid inclusions studies, it is possible to more precisely define the tectono-metamorphic history of tectonic units characterized by low-grade to very-low-grade metamorphism that crop up in the orogenic chains. This Special Issue aims to collect original research and reviews focused on the study and definition of low-to very-low-grade metamorphic units (PT conditions, age, PTdt trajectories, etc.) to decipher the processes activated in the medium-shallow crustal levels during all tectonic stages of an orogeny. We therefore welcome minero-petrographical, geochemical, and geochronological studies that also fit their results within the tectonic framework and contribute to enriching the knowledge of tectonic evolution.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

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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