Special Issue

Petrology, Thermochronology and Structural Evolution of Metamorphic-Core Complex

Message from the Guest Editors

Metamorphic core complexes (MCCs) are crustal-scale dome-shaped structures associated with the extensional or diapiric structural exhumation of mid- to lower-crustal rocks on continental and oceanic settings. These rocks have been exhumed through the brittle–ductile transition by a crustal-scale normal-sense brittle–ductile shear zones and/or discrete brittle detachment faults and structurally juxtaposed against upper-crustal rocks with markedly different tectonothermal and/or metamorphic histories. Novel and integrated approaches, including field-based, analytical, numerical, and analogue models, are shedding new light on the geometric, mechanical, temporal, and thermal evolution of MCCs. The main subjects of this Special Issue include but are not limited to:

- Geometric and structural evolution of the MCC footwall and hanging wall;
- Petrological and hydrothermal or metasomatic evolution MCCs;
- Mechanical and thermal evolution of MCCs;
- Pressure–Temperature evolution of footwall and hanging wall rocks;
- Syn- and post-tectonic magmatism and MCCs;
- Ore formation and deposition in MCCs and detachments.

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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