Special Issue

Advances in Geochronology, Geochemistry, and Petrology: Implications for the Geodynamics of the Balkan Peninsula in the Framework of the Alpine-Himalayan Orogenic System

Message from the Guest Editor

The Balkan Peninsula represents a complex Alpine orogenic edifice—a small part of the Alpine–Himalayan fold and thrust belt. This edifice consists of three major belts. The polymetamorphic evolution of high-grade cores of the Alpine orogen within this edifice during the Hercynian and Alpine times has been long suggested, but important new data have been gathered over the last 25 years due to the elaboration of UPb and Sm-Nd geochronology methods. Hence, the present Special Issue seeks to present new evidence in geochemistry and isotopic geochronology and its impact on the development of petrology, geotectonic, and geodynamics in SE Europe and the adjacent regions. Special attention will be given to problems of zircon and monazite mineralogy and their origin and evolution; zircons in the mantle reservoir and in meta mafic rocks; zircon dating of metamorphic events and their duration; geochemical signatures of different geodynamic environments; relations of metamorphism, anatexis, and granite magmatism with tectonics and geodynamics; and isotopic dating of exhumation events.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2024)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/178350

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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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