Special Issue

Lithophile and Highly Siderophile Element Geochemistry, Geochronology and Petrology of Volcanic Rocks from the Tethyan Orogenic Belt

Message from the Guest Editors

Volcanic rocks, in particular, are very important to understand the evolutionary history of the Earth because their lithophile and highly siderophile element geochemistry give implications for the nature of the mantle and crustal sources, mantle-crust interactions of the mantle- and crust-derived melts, and the evolutionary trend of magmatic processes. They can also tell us much about the magma-tectonic environment, given that they are closely linked to the convection of tectonic plates. Knowledge about the geochemistry, geochronology and petrology of volcanic rocks has increased in recent decades regarding advanced high-precision methods and techniques. This Special Issue aims to contribute to the lithophile and siderophile element geochemistry, Ar-Ar and U-Pb geochronology, and Sr-Nd-Pb-Os radiogenic isotope composition of volcanic rocks from the Tethyan Orogenic Belt to reveal the petrogenesis and evolutionary processes throughout the mantle and crustal levels.

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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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