

Special Issue

Petrographic, Geophysical, Geochemical and Geochronological Study of Magma and Magmatism in the Iberian Peninsula and Archipelagos

Message from the Guest Editors

Magmatism is the most important process for crustal growth and differentiation. Magmatism favours ore-forming conditions and promotes the generation of profitable mineral deposits. The spatio-temporal and geophysico-chemical evolution of magmas is crucial to understand the nature of the mantle and crustal sources and the magmatic processes. Igneous lithologies of distinct geochemical affinity and geophysical signature are distributed in the Iberian Peninsula, associated to diverse tectono-thermal episodes from Late Neoproterozoic to Late-Palaeozoic, Mesozoic and Cenozoic times. Magmatic rocks form a major component in western Iberia. They are a fundamental constituent of the Spanish-Portuguese archipelagos. Critical elements mineralisations are usually related to these lithologies. This Special Issue is aiming at the generation and evolution of magmatism in the Iberian Peninsula and the Spanish-Portuguese archipelagos, contributing to understanding of transport and emplacement mechanisms, as well as the mineralization patterns in magmatic systems.

Guest Editors

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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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