

Special Issue

Accessory Minerals in Silicic Igneous Rocks

Message from the Guest Editor

Although minor in abundance and typically small in size, accessory minerals are of fundamental importance in deciphering the history of magmatic–hydrothermal systems. They may inherit information from magma sources, monitor the evolution of fractionating melts, and record information on mixing/mingling/contamination of melts. Accessory minerals constitute important geochronometers and essentially govern the enrichment/depletion of economically relevant elements. [...] This Special Issue invites contributions that deal with accessory minerals and their behaviour during the entire evolution of silicic magmatic–hydrothermal systems, from the time/source of melting through fractionation/mixing/mingling of the generated magma until the time/place of crystallization/solidification, expelling of fluids and eventual generation of mineral deposits. We welcome contributions that use accessory minerals for dating the crystallization and alteration ages of rocks, reconstruct their P – T – X conditions during magma evolution, and monitor their metallogenic fertility.

Guest Editor

Dr. Hans-Jürgen Förster

Helmholtz Centre Potsdam German, Research Centre for Geosciences, GFZ DE-14473 Potsdam, Germany

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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