Special Issue

U-Pb Dating and Chemistry of Zircon in Metamorphic, Magmatic and Sedimentary Rocks

Message from the Guest Editors

Zircon is one of the most important accessory minerals used to reconstruct the complex evolution of the continental crust. Their growth domains can preserve an isotopic record of thermal events spanning tens to thousands of millions of years....
This Special Issue is organized into three sections:

- **Section 1** Metamorphic continental crust: Methods and case studies of metamorphic basements for geological reconstructions of tectonic events forming orogenic belts.
- **Section 2** Magmatic continental crust: Case studies of magmatic intrusions and volcanic products showing the role of zircon in the partition of REE during the partial melting and crystallization of magmas.
- **Section 3** Sedimentary continental crust: Case studies on the relevant significance of detrital zircon ages to reconstruct the paleogeographic evolution of sedimentary basins forming the younger orogenic chains.

This Special Issue aims to contribute to the disclosure of all the applications of U-Pb dating and chemistry of zircon to decipher the growth and the evolution of the continental crust.

Guest Editors

Prof. Annamaria Fornelli

Department of Earth and Geo-Environmental Sciences, University of Bari Aldo Moro, via E. Orabona, 70125 Bari, Italy

Dr. Francesca Micheletti

Department of Earth and Geo-Environmental Sciences, University of Bari Aldo Moro, via E.Orabona, 4, 70125 Bari, Italy

Deadline for manuscript submissions

closed (1 September 2020)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/33212

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

mdpi.com/journal/minerals

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/journal/minerals

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI