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Mineralization in Subduction Zone

Guest Editors:

Dr. Lipeng Zhang

Dr. Saijun Sun

Dr. Jianghong Deng

Dr. Qinglin Sui

Deadline for manuscript submissions:
closed (30 November 2023)

Message from the Guest Editors

Subduction zones are the most important areas of mineralization. Different types of ore deposits occur in these zones, and have different temporal and spatial distribution, controlled by the properties of ore-forming elements. The thermal state of the subduction zone, the fluid composition and oxygen fugacity at different subduction depths, and the type of subducted sediments all affect the process and type of mineralization. The purpose of this Special Issue is to provide a platform for discussing the most recent developments in deposit exploration as well as mineralization processes and mechanisms in subduction zones. High-quality papers on creative views, novel methods, and practical applications are welcomed. This Special Issue is focused on relevant topics, including but not limited to: (1) high-precision geochronology of ore deposits; (2) application of new geochemical methods to the study of ore deposits; (3) progress in the application of accessory minerals in the study of ore deposits; and (4) deposit exploration in subduction zones.

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Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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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Contact Us

Minerals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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minerals@mdpi.com
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