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Sulphide Mineral Microstructure

Guest Editor:

Dr. Alan P. Boyle
Department of Earth, Ocean and Ecological Sciences, University of Liverpool, Liverpool L69 3GP, UK

Deadline for manuscript submissions:
closed (20 August 2021)

Message from the Guest Editor

Sulphide minerals are commonly studied in mineral deposits. However, they are ubiquitous in all types of rocks, though often ignored because most are opaque and typically constitute minor components. This Special Issue o f *Minerals* seeks to raise awareness of the utility of sulphide minerals by bringing together new and novel research studies of sulphide mineral microstructure from across all areas of geoscience, such as:

- Primary deposition of sulphide minerals (e.g., sedimentary deposition vs. in situ precipitation for formation of primary layering structure in hydrothermal and igneous systems; self-organisation in framboid, colloform, spherule structures);
- Sulphide mineral deformation and recrystallisation (e.g., use of pyrite microstructures to determine PT path segments in metamorphosed mineral deposits and faults);
- Integration of microstructure and microchemistry (e.g., the role of sulphide mineral deformation and recrystallisation in mobilising and concentrating critical metals; controls on sulphide mineral oxidation relevant to acid mine drainage, concrete damage).

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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
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
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