Special Issue

Mineral Exploration in Weathered and Covered Terrains

Message from the Guest Editors

The focus of the Special Issue will be on interdisciplinary integrated approaches applied to mineral exploration and targeting deeper buried minerals deposits in and through the Critical Zone. Our Special Issue will cover a broad range of relevant topics of interest, such as:

- Landscape evolution of the sedimentary cover sequences in weathered terrains;
- Cover mapping using geophysical hyperspectral, remote sensing techniques and machine learning;
- Dispersion mechanisms (mechanical, hydromorphic and biological) releasing and enriching ore and pathfinder elements in the Critical Zone;
- Laterite and supergene ore deposits;
- Near-surface geochemical exploration techniques such as soil, vegetation and termite mounds;
- New innovative exploration methods for vectoring toward concealed mineral deposits in weathered and covered terrains;
- Mineral exploration in areas covered by glacial sedimentary cover using indicator mineralogy;
- Recent advances in hydro-, bio-, isotope geochemistry applied to mineral exploration in weathered terrains.

Guest Editors

Dr. Walid Salama
CSIRO Mineral Resources, Perth, WA, Australia

Dr. Caroline Tiddy
Mineral Exploration CRC (MinEx CRC); Future Industries Institute, University of South Australia, Mawson Lakes, SA 5095, Australia

Dr. Ryan Noble
CSIRO Mineral Resources, Perth, Western Australia, Australia

Deadline for manuscript submissions

closed (31 May 2021)

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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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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).

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