Special Issue

3D Mineral Prospectivity Modeling Applied to Mineral Deposits

Message from the Guest Editors

Mineral prospectivity modeling has become an indispensable tool in mineral deposit exploration, particularly in the era of big data and advancements in three-dimensional (3D) geological modeling. As global demand for deep-seated mineral resources continues to We invite submissions that feature original scientific research related to 3D mineral prospectivity modeling. Topics of interest include, but are not limited to, the following:

- Development of novel 3D mineral prospectivity models;
- Integration of geospatial, geophysical, and geochemical data for 3D mineral prospectivity mapping;
- Applications of machine learning and deep learning in 3D mineral prospectivity modeling;
- Case studies of mineral deposit discoveries using 3D modeling techniques;
- Advances in visualization techniques for 3D mineral systems;
- Incorporation of structural geology and fault systems into 3D prospectivity models;
- Three-dimensional geological modeling techniques for mineral prospectivity mapping.

We look forward to your contributions, which will help to advance the field and deepen our understanding of mineral deposit exploration through cutting-edge 3D modeling approaches.

Guest Editors

Dr. Hao Deng
Dr. Jin Chen
Dr. Zhiqiang Zhang

Deadline for manuscript submissions

31 August 2026

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/220936

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), GEOBASE, 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 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

MDPI