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Advances in 3D Geological Modeling and Metallogenic Prediction

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

With the increasing difficulty of mineral exploration and exploration risks, the use of computer-based 3D geological modeling, visualization techniques, and geological big data analysis methods has gradually become a highlight in the field of metallogenic prediction; 3D geological modeling and visualization can vividly depict the spatial distribution relationship of strata, rock masses, and structures within a certain depth range underground. Based on this, visualization and quantitative prediction methods incorporating multi-disciplinary geological information such as geology, geochemistry, and geophysics play an important role in the development of three-dimensional mineralization prediction theory and the search for hidden ore bodies. Therefore, the Special Issue titled "3D Geological Modeling and Metallogenic Prediction" focuses on the advancements and applications of these two interconnected fields in geology and mineral exploration. The collection of articles within this Issue explores the latest research, methodologies, and case studies related to 3D geological modeling and metallogenic prediction.

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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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