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3D Modeling of Mineral Deposits

Guest Editors:

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Deadline for manuscript submissions:
closed (1 March 2024)

Message from the Guest Editors

Dear Colleagues,

Mineral deposits are the result of coupled multiple geology processes in a certain period and space. Traditional geology investigation on mineral deposits is, however, limited in 3D view. With the fast increase in drill data in mines, three-dimensional (3D) modeling has been demonstrated as one of the important roles in mineral exploration. The 3D models of mineral deposits not only include several geology-geophysics-geochemistry objects (e.g., orebody, structure, alteration and anomaly) but also present their attributes that record mineralization formation processes, which can thus minimize the risk associated with geology understanding. With the technological advances in 3D modeling, spatial analysis, artificial intelligence and numerical simulation in recent years, the 3D models of mineral deposits have already been greatly improved in quality and efficiency. This Special Issue is open to all research about 3D modeling of mineral deposits from the mine scale and above. Of particular interest are manuscripts reporting novel and key 3D geology modeling methods enlightening the research of mineral metallogeny and/or exploration.

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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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