Special Issue

3D-Modelling of Crustal Structures and Mineral Deposit Systems

Message from the Guest Editor

The global distribution of different types of mineralization closely correlates in space and time to geodynamic processes resulting from plate tectonics and supercontinent cycle. Crustal-scale structures in the Earth represent a connectivity network linking deep-seated mineral fluids and uppermost crustal levels. The structural control on sedimentation, magmatism and deformation pattern in different tectonic settings is a key issue to be addressed in complex geological environments with mineralization at local and regional scale. In this light, 3D-modelling integrating multi-disciplinary geodata sets in synergy with validated geological interpretation, provides a better comprehensive understanding and visualization of the structural-geological framework in connection with mineral deposit systems, for further assessment of mineral resources and exploration perspective. The Special Issue “3D-Modelling of Crustal Structures and Mineral Deposit Systems” invites papers dealing with 3D-modelling, structural geology and ore deposits including original applications and new perspectives in research, with contribution from academia, geological surveys and the industry.

Guest Editor

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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.

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