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Geostatistical Modeling of the Cu Ore Deposits

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Deadline for manuscript submissions:
closed (14 May 2021)

Message from the Guest Editors

Dear Colleagues,

Worldwide, there are nearly 2000 known copper-bearing mineral deposits. This Special Issue will focus on the current achievements of 2D/3D geochemical and lithological modeling of any genetic type of Cu deposit, both onshore and offshore (e.g., polymetallic nodule deposits), using various algorithms of "classical" geostatistics and geostatistical simulations. In particular, this includes modeling of spatial distribution of the grade (or accumulation) of Cu and valuable associated elements accompanying the main ore. This Special Issue will be an opportunity to summarize previous experience in this field and to indicate new directions and research ideas. Examples of applications of the results of geostatistical modeling in mining geology and mining (e.g., assessment of resources and quality of Cu deposits, classification of resources, scenarios of short- and long-term mineral extraction) and indication of new potential applications in these disciplines will be appreciated. We invite representatives of universities, research institutes, geological surveys and the mining industry to share the results of research related to the subject of the Special Issue.

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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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