

Special Issue

Ore Mineralogy and Geochemistry of Rare Metal Deposits

Message from the Guest Editors

Rare metals occur in diverse deposit types and are mined in substantial quantities that meet the world demands. By definition, rare-metal deposits hardly occur in technically and economically exploitable, worthy concentrations and have high monetary acquisition costs...This Special Issue welcomes contributions on original research which presents new data from rare-metal deposits, focusing mainly on mineralogy and mineral chemistry studied with several techniques, e.g., optical microscopy, Raman, SEM, EPMA, LA-ICP-MS, SIMS, TIMS, PIXE, PGNA, QEMSCAN, and others. We focus on the mineralogy of Bi, Ta, Co, V, Te, W, Se, Re, Ga, Ge, In, Cd, Hg, Li, Rb, Sr, Be, Y, Ce, Nd, Sc, Au, Ag, U, Th, the REE-Lanthanides, and the Platinum Group Elements (PGE). These data will contribute significantly to the knowledge about the distribution of rare metals in specific minerals for a possible future exploration and exploitation.

Guest Editors

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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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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).