

Special Issue

Formation Study of Gem Deposits

Message from the Guest Editors

Every gem deposit possesses distinct characteristics, resulting in a unique imprint on the gem during its formation, including variations in chemical composition, structure/microstructure, and mineral components, inclusions, etc. Research on the genesis of gem deposits is crucial for comprehending the factors contributing to the formation of high-quality gems and the distinctive attributes of gem deposits across various locations. This Special Issue aims to showcase the latest and most comprehensive advancements in gem deposits pertaining to mineralogy, petrology, and gemology. The Special Issue welcomes original scientific research submissions related to gem deposits from established and emerging locations globally. The Special Issue focuses on the following topics:

- Geological background, occurrence, genesis, and genetic models of gem deposits;
- The mineralogical, gemological, geochemical, and spectroscopic characteristics of natural gems, as well as the mineralogical, geochemical, and geochronological features of the associated wall/country rocks;
- Applications of integrated studies tracing gem provenance and elucidating gemstone identification methods.

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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

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).