Special Issue

Minerals as Advanced Materials

Message from the Guest Editor

Minerals have been of great interest to chemists and physicists. The disadvantage of minerals is the presence of impurities that hamper or even preclude the study of physical properties on natural samples. However, the discovery of minerals with new structures and chemical compositions facilitates the identification of new chemical compounds that can be later prepared in the lab and put under the scrutiny of the physical characterization. This approach “from minerals to materials” avoids the trial-and-error method, often used in an exploratory synthesis, and may be advantageous over computational predictions of thermodynamic stability that can be biased by inaccuracies of the computational methods. This Special Issue welcomes contributions on minerals and their synthetic analogues, new mineral species with potentially interesting applications, mineralogical crystallography, synthesis of mineral-related compounds, and properties of mineral-related inorganic materials.

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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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 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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