Special Issue

Marine Minerals of the Deep Sea: Mineralogy, Crystallography and Their Use for Tailored Processing and Metal Extraction

Message from the Guest Editors

Interests in deep-sea mining of mineral deposits, such as polymetallic manganese nodules, cobalt-rich ferromanganese crusts, and seafloor massive sulphides, to secure mankind's future demand for raw materials have increased steadily during the last decade, fueled by rapid advancements in the establishment of international legislation and mining technologies. This surge of interest has concurrently boosted the need for developing effective methods of extraction of both main and trace metals. However, to develop tailored extraction methods detailed knowledge of the crystallography and the structural position of the metals of interest are necessary. This Special Issue welcomes papers that focus on all aspects of mineralogy, crystallography and extraction methods of the various deep-sea mineral deposits.

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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)

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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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