Special Issue

Cobalt in Polymetallic Systems: Mineralogy, Geochemistry, and Ore Genesis

Message from the Guest Editors

Cobalt, a critical metal essential for rechargeable lithium□ion batteries and high□performance alloys, faces growing global demand...This Special Issue aims to compile cutting□edge research on cobalt□bearing polymetallic deposits, advancing our understanding of their mineralogy, geochemistry, and metallogenesis. Contributions will provide key insights into cobalt occurrence, fluid□mediated transport and precipitation, and enrichment processes—knowledge that can directly enhance the efficiency of mineral processing and extractive metallurgy. This Special Issue invites submissions that include original scientific research relating to Co polymetallic deposits from well-known and/or emerging districts worldwide. Topics of interest include, but are not limited to, the following: 1) the geological setting, mineralogy, and genesis of cobalt polymetallic deposits; 2) mechanisms of Co transport and precipitation in ore□forming fluids; 3) applications of machine learning and advanced analytical techniques to the identification and characterization of cobalt mineralization; 4) integrated exploration models for effective targeting of cobalt□polymetallic resources.

Guest Editors

Dr. Zhilin Wang
Dr. Shaohao Zou
Dr. Hui Wang

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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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).

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