



Advances in the Geometallurgy of Battery Minerals

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Deadline for manuscript
submissions:

closed (15 November 2023)

Message from the Guest Editors

Dear Colleagues,

With the electric revolution upon us, society needs to shift from a fossil fuel-based economy to a mineral-based one but the need for dramatic production increases of battery raw materials is raising concerns. In the context of declining ore grades and increasing ore complexity, paired with rising environmental, social and governance issues, the extractive industry is facing one of its most challenging times. Therefore, the industry must evolve, notably through the application of integrated approaches such as geometallurgy.

This Special Issue aims at compiling research in geometallurgy, but also all integrated and cross-disciplinary research, applied to battery raw materials, notably, but not restricted to, nickel, lithium, cobalt, graphite and magnesium. We welcome geological, mineralogical, mineral processing, environmental and recycling studies. We also invite methodological studies on cutting-edge technologies and novel analytical methods. We hope that this Special Issue will contribute to a better understanding of the geometallurgy of battery minerals, their extraction and processing, as well as their sustainable production.





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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 (*Geochemistry and Geophysics*) / CiteScore - Q2 (*Geology*)

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