



Thermochemical Processing of Low-Grade Ores and Mineral-Related Wastes

Guest Editor:

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Message from the Guest Editor

In recent years, thermochemical processing of low-grade ores and mineral wastes has received renewed attention. This Special Issue will focus on recent advances in thermochemical processing of low-grade ores and mineral wastes, including but not limited to the following topics:

- Alkali roasting-leaching methods using e.g. NaOH, Na₂CO₃, CaCO₃
- Ammonium salt roasting-leaching methods using e.g. (NH₄)₂SO₄, NH₄Cl
- Microwave-enhanced extraction methods
- Thermochemical processing applied to e.g., mine tailings, coal fly ash, individual minerals (e.g., serpentine)
- Extraction of rare earth elements, aluminium and other metals by thermochemical processing
- Thermochemical decomposition of extraction agents (e.g., (NH₄)₂SO₄)
- Thermodynamics and kinetics studies
- Techno-economic and exergy studies





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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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