



Moving towards the Crystal Structure, Molecular or Atomic-Scale for Green and Novel Hydrometallurgical Processing

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Deadline for manuscript
submissions:

closed (16 November 2021)

Message from the Guest Editors

Future-oriented and sustainable innovations in mineral extraction are required to allow economic extraction of metals from lower-grade and more complex ores. Hydrometallurgical technologies have shown the greatest potential for metal extraction from both primary and secondary raw material resources. The metal extraction steps are typically characterized by approaches that range from leaching of metal values by chemical reagents or bacterial action at ambient or elevated pressures and temperatures in reactors to leaching in vats or heaps (both chemical and biological) to in situ recovery...we welcome both reviews and full-length articles. Of particular interest are articles that demonstrate how the crystal structure or molecular or atomic scale in minerals and reagents are a driving factor in developing future technological advances and sustainably innovative solutions in hydrometallurgy towards unlocking the use of potential raw materials from primary and secondary metal resources.





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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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