



minerals



Special Issue Reprint

Recent Advances in Hydro- and Biohydrometallurgy

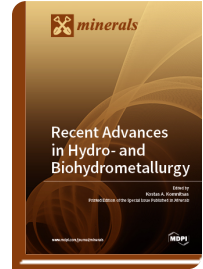
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This Special Issue of Minerals presents recent, select studies that highlight advances in the fields of hydro- and biohydrometallurgy. It aims to attract the interest of readers and especially of young scientists and students in this fascinating scientific discipline.

The topics addressed include the following:

- Stirred reactor and heap leaching of laterites (limonitic and saprolitic), as well as iron control during atmospheric acid leaching;
- Leaching of a typical porphyry copper sulfide deposit from Antofagasta, Chile, using chloride-ferrous solutions;
- Leaching of chalcopyrite ores with various leaching media;
- Leaching of white metal from a Teniente converter in NaCl-H₂SO₄ media;
- Study of the galvanic effect of pyrite and arsenopyrite during the leaching of gold ores;
- Leaching of marine nodules in the presence of reducing agents to extract Mn;
- Bioleaching of gold ores in the presence of iodide-oxidizing bacteria;
- A two-step sequential leaching process, involving bioleaching and chemical leaching, to treat apatite ores containing P and U impurities;
- Bioreductive dissolution of iron minerals present in monazite in stirred reactors using *Acidithiobacillus* (A.) species;
- Heap leaching of municipal solid waste incineration bottom ash (MSWI BA) for the recovery of Zn and Cu.



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